

Order No. 4723 } to Binders (Eyre & Spottiswoode).
4 Janz 1912 }

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[Office & Bindery.]

BRITISH MUSEUM.

RETURN to an Order of the Honourable The House of Commons,
dated 28 February 1906 ;—*for*,

COPY “of Account of the INCOME and EXPENDITURE of
the BRITISH MUSEUM (SPECIAL TRUST FUNDS) for
the Year ending the 31st day of March 1906; and,
RETURN of the Number of PERSONS admitted to visit
the MUSEUM and the BRITISH MUSEUM (NATURAL
HISTORY) in each Year from 1900 to 1905, both Years
inclusive; together with a STATEMENT of the PROGRESS
made in the ARRANGEMENT and DESCRIPTION of the
COLLECTIONS, and an ACCOUNT of OBJECTS added to
them in the Year 1905.”

Treasury Chambers, }
24 April 1906. }

REGINALD MCKENNA.

(*Mr. Rothschild.*)

Ordered, by The House of Commons, to be Printed,
24 April 1906.

LONDON:
PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE,
BY EYRE AND SPOTTISWOODE,
PRINTERS TO THE KING'S MOST EXCELLENT MAJESTY.

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WYMAN AND SONS, LTD., FETTER LANE, E.C.; or
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I.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.		STOCK, 2½% Consols.	
	£.	s. d.	£.	s. d.
To BALANCES on the 1st April 1905 - - -	277	12 1	13,150	13 10
- DIVIDENDS received on 13,150 <i>l.</i> 13 <i>s.</i> 10 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by the Earl of Bridgewater, viz.:				
On the 5th April 1905	£. 82	3 10		
" 5th July 1905	- 82	3 10		
" 5th October 1905	- 82	3 10		
" 5th January 1906	- 82	3 10		
		<u>328 15 4</u>		
- RENT OF A REAL ESTATE, bequeathed by the Earl of Bridgewater (less charges of collection, repairs, &c.) - - - -	28	6 -		
	£.	634 13 5	13,150	13 10

II.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.		STOCK, 2½% Consols.	
	£.	s. d.	£.	s. d.
To BALANCES on the 1st April 1905 - - -	261	9 7	2,879	10 7
- DIVIDENDS received on 2,879 <i>l.</i> 10 <i>s.</i> 7 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Lord Farnborough, viz.:				
On the 5th April 1905	£. 17	19 11		
" 5th July 1905	- 17	19 11		
" 5th October 1905	- 17	19 11		
" 5th January 1906	- 17	19 11		
		<u>71 19 8</u>		
	£.	333 9 3	2,879	10 7

BRIDGEWATER FUND, from the 1st April 1905 to the 31st March 1906.

	CASH.	STOCK, 2½ % Consols.
	£. s. d.	£. s. d.
By One Year's SALARY of the Egerton Librarian -	175 - -	
- AMOUNT expended on purchase of Manuscripts	21 18 6	
- BALANCES ON THE 31ST MARCH 1906, carried to Account for 1906-1907 - - -	437 14 11	13,150 13 10
£.	634 13 5	13,150 13 10

FARNBOROUGH FUND, from the 1st April 1905 to the 31st March 1906.

	CASH.	STOCK, 2½ % Consols.
	£. s. d.	£. s. d.
BY BALANCES ON THE 31ST MARCH 1906, carried to Account for 1906-1907 - - -	333 9 3	2,879 10 7
£.	333 9 3	2,879 10 7

III.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.		STOCK, 2½ % Consols.	
	£.	s. d.	£.	s. d.
To BALANCES on the 1st April 1905 - - -	53	13 7	5,683	1 6
<i>is</i> - DIVIDENDS received on 5,683 <i>l.</i> 1 <i>s.</i> 6 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Dr. George Swiney for Lectures on Geology, viz.:				
On the 5th April 1905 - £. 35 10 4				
" 5th July 1905 - 35 10 4				
" 5th October 1905 - 35 10 4				
" 5th January 1906 - 35 10 4				
		142 1 4		
	£.	195 14 11	5,683	1 6

IV.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of

	CASH.		STOCK, 2½ % Consols.	
	£.	s. d.	£.	s. d.
To BALANCE on the 1st April 1905 - - -	—		565	3 9
- DIVIDENDS received on 565 <i>l.</i> 3 <i>s.</i> 9 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Dr. Birch in 1766, for the three Under Librarians of the British Museum, viz.:				
On the 5th April 1905 - £3 10 8				
" 5th July 1905 - 3 10 8				
" 5th October 1905 - 3 10 8				
" 5th January 1906 - 3 10 8				
		14 2 8		
	£.	14 2 8	565	3 9

SWINEY FUND, from the 1st April 1905 to the 31st March 1906.

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
BY AMOUNT paid to Dr. J. S. Flett, for Lectures on Geology in 1905 - - - - -	140 - -	
- Advertisements—Vacancy in Swiney Lecture- ship - - - - -	5 8 10	
- BALANCES ON THE 31ST MARCH 1906, carried to Account for 1906-1907 - - -	50 6 1	5,633 1 6
£.	195 14 11	5,633 1 6

the BIRCH FUND, from the 1st April 1905 to the 31st March 1906.

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
BY LEGACY paid to the three Under Librarians of the British Museum, whose offices existed in 1766, viz., the Keepers of the Departments of Printed Books, Manu- scripts and Natural History - - - - -	14 2 8	
- BALANCE ON THE 31ST MARCH 1906, carried to Account for 1906-1907 - - -	—	565 3 9
£.	14 2 8	565 3 9

V.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest and Extension of the Library and Reading-room of the British

	CASH.	LOCAL LOANS STOCK.
	£. s. d.	£. s. d.
To AMOUNT of Local Loans Stock on 1st April 1905 - - - - -	—	50,107 19 4
- DIVIDENDS received during the year - - - - -	1,520 5 -	
- AMOUNT of Local Loans Stock purchased with the Dividends - - - - -	—	1,524 7 7
£.	1,520 5 -	51,632 6 11

VI.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest 1st April 1905 to

	CASH.	METROPOLITAN 3½ % STOCK.
	£. s. d.	£. s. d.
To AMOUNT of Metropolitan 3½ per cent. Stock on 1st April 1905 - - - - -	—	7,070 6 3
- DIVIDENDS received during the year - - - - -	250 10 6	
- AMOUNT of Metropolitan 3½ per cent. Stock purchased with the Dividends - - - - -	—	237 9 3
£.	250 10 6	7,307 15 6

of the late MR. VINCENT STUCKEY LEAN (for the Improvement Museum) from the 1st April 1905 to the 31st March 1906.

	CASH.	LOCAL LOANS STOCK.
	£. s. d.	£. s. d.
BY AMOUNT expended in the purchase of 1,524 <i>l.</i> 7 <i>s.</i> 7 <i>d.</i> Local Loans Stock, Commission, &c. - - -	1,520 5 -	
- BALANCE OF STOCK ON THE 31ST MARCH 1906 carried to account for 1906-1907 - -	—	51,632 6 11
£.	1,520 5 -	51,632 6 11

of the late MR. CHARLES DRURY EDWARD FORTNUM from the the 31st March 1906.

	CASH.	METROPOLITAN 3½% STOCK.
	£. s. d.	£. s. d.
BY AMOUNT expended in the purchase of 237 <i>l.</i> 9 <i>s.</i> 3 <i>d.</i> Metropolitan 3½ per cent. Stock, Commission, &c. - - -	250 10	
- BALANCE OF STOCK ON THE 31ST MARCH 1906 carried to account for 1906-1907 - -	—	7,307 15 6
£.	250 10 6	7,307 15 6

E. Maunde Thompson,
Director and Principal Librarian.

VII.—NUMBER OF PERSONS ADMITTED TO VISIT THE BRITISH MUSEUM AND THE BRITISH MUSEUM (NATURAL HISTORY).

A.—PERSONS ADMITTED TO VIEW THE GENERAL COLLECTIONS IN THE BRITISH MUSEUM IN EACH YEAR FROM 1900 TO 1905 BOTH YEARS INCLUSIVE.

	1900.		1901.		1902.		1903.		1904.		1905.	
	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.
January	42,790	2,009	49,780	2,635	60,756	2,729	61,276	2,458	74,185	3,622	71,905	3,965
February	35,480	2,161	39,688	2,938	48,575	2,396	56,153	3,617	62,945	3,834	59,212	3,513
March	41,817	3,864	45,707	6,088	61,955	5,970	58,572	6,499	65,136	4,967	68,136	5,545
April	63,966	5,330	65,445	4,395	72,051	5,333	82,342	6,372	84,667	5,907	88,755	8,897
May	45,403	3,905	54,816	3,886	78,085	5,339	65,207	7,483	72,706	6,153	65,143	6,002
June	52,725	3,230	48,798	4,766	68,824	6,033	81,232	5,524	65,980	4,483	71,619	5,327
July	55,619	4,255	60,973	4,540	70,833	5,395	86,011	7,565	74,591	5,136	62,396	6,492
August	90,783	4,498	71,783	4,534	83,874	7,090	90,534	7,565	89,089	4,948	79,875	4,976
September	57,103	5,339	58,591	5,272	64,247	5,793	68,748	5,890	83,673	6,640	67,891	5,780
October	56,610	3,976	63,163	3,395	63,611	4,766	73,944	5,233	77,805	5,806	49,502	6,566
November	49,034	3,171	51,839	2,826	54,089	4,304	61,877	4,086	69,058	3,051	28,392	3,422
December	54,027	2,154	59,136	3,020	60,450	2,771	72,904	2,012	77,864	2,305	38,726	1,622
Total Number of Persons admitted to view the General Collections.	645,377	43,892	669,713	48,895	786,850	58,519	858,800	62,048	897,699	56,852	751,552	63,107
	689,249		718,614		845,369		920,848		954,551		813,659	

NUMBER OF VISITS OF STUDENTS TO PARTICULAR DEPARTMENTS.

	1900.	1901.	1902.	1903.	1904.	1905.
To the Reading Room - - - - -	198,566	200,035	211,244	209,713	226,323	214,940
" Newspaper Room - - - - -	25,423	25,511	23,617	23,648	22,053	21,857
" Map Room - - - - -	324	388	309	313	297	286
" Department of Manuscripts - - - - -	9,487	9,445	9,063	10,291	10,469	10,623
" Department of Oriental Printed Books and Manuscripts.	3,237	3,257	2,987	2,594	3,595	3,552
" Print Room - - - - -	5,755	7,027	8,061	9,484	8,383	8,614
" Egyptian and Assyrian Department - - - - -	2,360	2,470	2,560	2,750	2,900	2,750
" Greek and Roman Department - - - - -	426	570	416	592	740	574
" Galleries of Sculpture - - - - -	3,797	3,430	3,293	3,462	2,935	2,985
" British and Mediæval Department - - - - -	1,806	1,901	2,117	2,445	2,514	1,905
" Coin and Medal Room - - - - -	3,428	3,944	4,015	4,495	4,223	4,411
Total - - - - -	254,609	257,978	267,682	269,787	284,432	272,497

The British Museum, Bloomsbury (including the Departments of Printed Books and Maps, Manuscripts, Oriental Printed Books and Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, Greek and Roman Antiquities, British and Mediæval Antiquities and Ethnography, and Coins and Medals) is open to the public free daily (except on Good Friday and Christmas Day and days of Public Fast or Thanksgiving), as follows:—

On WEEK-DAYS from 10 a.m. to 6 p.m.

After 4 p.m. in January, February, November, December, and after 5 p.m. in March, September, October, only certain of the galleries remain open, viz. :—

On MONDAYS,	{ Exhibitions of Manuscripts, Printed Books, Prints and Drawings, Porcelain, Glass & Majolica; Prehistoric, British, Anglo-Saxon, Mediæval and Ethnogra- phical Collections.
WEDNESDAYS,	
and	
FRIDAYS	

ON TUESDAYS,	{ Egyptian, Assyrian, Greek and Roman Galleries (exclusive of the Vase Rooms and Bronze Room); Gold Ornament Room, American Collections, and the Waddesdon Room.
THURSDAYS,	
and	
SATURDAYS	

On SUNDAY AFTERNOONS :—

From 2 to 4	p.m. in January, February, November, December.
„ 2 „ 5	„ „ October.
„ 2 „ 5.30	„ „ March, September.
„ 2 „ 6	„ „ April, May, June, July, August.

Persons applying for the purposes of research and reference are admitted to the Reading Room under certain regulations every weekday, except the days specified below, from 9 a.m. until 7 p.m. The Newspaper Room is open, under similar regulations, from 10 a.m. until 4, 5, or 6 p.m., according to the season of the year.

The Reading Room, Newspaper Room, and Students' Rooms in the Library and Department of Manuscripts, are closed on Sundays, Good Friday, Christmas Day, and the first four weekdays in March and September.

Other Students' Rooms are closed on Sundays, Good Friday, and Christmas Day, and occasionally for cleaning.

Students are admitted generally to the several Departments, on weekdays, from 10 till 4 or 5 o'clock ; and to the Sculpture Galleries from 9 o'clock till the hour of closing.

British Museum, }
31 March 1906. }

E. Maunde Thompson,
Director and Principal Librarian.

R.—PERSONS ADMITTED TO VIEW THE COLLECTIONS IN THE BRITISH MUSEUM (NATURAL HISTORY), CROMWELL ROAD, in each Year, from 1900 to 1905, inclusive.

	1900.		1901.		1902.		1903.		1904.		1905.	
	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.
January	46,474	2,735	22,625	2,532	26,975	3,513	24,720	2,617	43,394	4,758	39,655	3,933
February	27,241	3,457	19,821	4,349	19,603	3,491	22,099	4,662	26,900	5,481	23,614	4,445
March	34,803	5,352	25,280	7,494	35,229	6,715	24,049	7,419	28,790	6,138	33,156	5,406
April	48,908	7,302	44,881	5,883	35,313	6,082	59,546	5,853	56,671	6,418	60,418	7,071
May	31,411	6,005	33,495	4,916	39,734	6,309	28,800	6,823	36,952	6,466	43,423	8,290
June	44,039	5,235	30,149	5,992	31,170	5,827	41,440	5,827	32,092	4,887	66,124	7,455
July	32,325	5,996	23,529	4,702	31,357	4,603	36,949	6,040	28,540	4,499	36,663	6,948
August	53,664	4,894	47,364	4,631	42,750	4,632	51,044	7,346	43,554	5,178	57,812	6,206
September	30,941	5,881	28,790	6,251	30,775	5,890	32,619	4,966	30,695	5,796	35,916	6,370
October	29,844	4,187	28,900	5,058	25,922	4,969	31,626	4,171	23,689	5,929	33,263	6,793
November	22,829	3,406	22,264	2,961	24,970	4,267	33,466	4,504	24,941	3,203	32,477	3,709
December	26,507	2,752	27,796	3,028	28,786	2,737	37,187	2,960	33,500	2,156	33,758	3,458
Total Number of Persons admitted to view the Natural History Collections (including students)	428,986	56,302	359,894	57,797	372,584	61,035	423,545	63,188	409,648	60,909	496,229	70,084
	485,288		417,691		433,619		486,733		470,557		566,313	

NUMBER OF VISITS TO PARTICULAR DEPARTMENTS for the purpose of STUDY.

	1900.	1901.	1902.	1903.	1904.	1905.
Zoology	-	12,813	10,633	11,627	11,824	11,811
Geology	11,923	4,573	4,135	4,501	4,854	4,968
Mineralogy	1,314	1,295	1,366	1,541	909	994
Botany	2,380	2,392	2,068	2,108	2,358	1,939
Total	20,064	21,073	18,202	19,877	19,945	19,712

The Exhibition Galleries of the British Museum (Natural History), Cromwell-road, South Kensington, including the Departments of Zoology, Geology and Palæontology, Mineralogy, and Botany, are open to the public, free, daily, except Good Friday and Christmas Day, and days of Public Fast or Thanksgiving.

The hours of Admission are as under :—

On WEEK-DAYS, throughout the year from 10 a.m., in

January	-	-	-	-	-	-	to	4	p.m.
February	-	-	-	-	-	-	„	4.30	„
March	-	-	-	-	-	-	„	5.30	„
April to August	-	-	-	-	-	-	„	6	„
September	-	-	-	-	-	-	„	5.30	„
October	-	-	-	-	-	-	„	5	„
November and December	-	-	-	-	-	-	„	4	„

also, on MONDAYS and SATURDAYS only, from the beginning of May to the middle of July, to 8 p.m., and from the middle of July to the end of August, to 7 p.m.

On SUNDAYS, in

January	-	-	-	-	from	2	to	4	p.m.
February	-	-	-	-	„	2	„	4.30	„
March	-	-	-	-	„	2	„	5.30	„
April	-	-	-	-	„	2	„	6	„
May to August	-	-	-	-	„	2.30	„	7	„
September	-	-	-	-	„	2	„	5.30	„
October	-	-	-	-	„	2	„	5	„
November and December	-	-	-	-	„	2	„	4	„

Persons are admitted to study in these Departments every weekday from 10 till 4 o'clock.

British Museum (Natural History), } *E. Ray Lankester*,
24 February 1906. } Director.

VIII.—GENERAL PROGRESS AT THE MUSEUM, BLOOMSBURY.

A serious fall in the number of visits to the Museum during the year 1905 has to be recorded. In recent years the numbers have been steadily increasing, and in 1904 they reached the large total of 954,441. There has now been a reaction, with a loss of upwards of 140,000; the number for the year being 813,659. It is impossible to account for such fluctuations; but it is to be observed that the reduction took place in the latter half of the year and on weekdays, the attendance on Sundays being larger than that in 1904.

The number of visits of students to the Reading Room has also diminished slightly, the number for 1905 being 214,940, as against 226,323 in 1904; a daily average of 711.

The average numbers of persons in the room, counted at the later hours of the afternoon, were:—

4 P.M.	5 P.M.	6 P.M.	6.30 P.M.
352	256	172	121

The number of visits of students to particular Departments in 1905 was 57,557, as against 58,109 in 1904; a reduction of 552, due chiefly to the smaller number of visits to the Department of British and Mediæval Antiquities.

The excavations which have been in progress since 1903 on the site of ancient Nineveh were brought to a close in February 1905. The mound of Kouyunjik has now been fully explored, testing trenches having been cut in all directions in order to be sure that no remains have been overlooked. The principal recent discovery is the site of the Temple of Nabu, the War God. The ruins were cleared, but the building had been so utterly destroyed and burnt, presumably by the Elamites at the capture of the city, that it was not possible even to make a complete plan of it. The library of tablets, which it probably contained, must have been entirely destroyed. So thorough, indeed, was the destruction of the city by the conquerors, to judge from the condition of the remains, that the preservation of the collection of tablets now in the Museum, and forming only a part of the great library of Sennacherib and Ashur-bani-pal, must be attributed to some accidental falling in of débris, which thus covered them and saved them from the enemy.

The excavations on the site of the Temple of Artemis at Ephesus were brought to a close on the 17th of June. The result of the two seasons' excavations is as follows:—The remains of four temples superimposed one on another have been examined. Taking these temples in order, from the latest to the earliest, they are: 1. The temple of the middle of the 4th century B.C., which was the main object of Mr. J. T. Wood's exploration. Mr. Wood removed almost every relic of it, and his work proves to have been very thorough. The remains which he discovered are those now in the British Museum. 2. The temple built in the middle of

the 6th century B.C., usually associated with the name of Cræsus, was the original object of the recent exploration. This temple was only touched by Wood. The whole area of the surviving platform has now been cleared, and, from the numerous fragments recovered, an architectural restoration of all except the architraves will be possible. 3. The third temple, the existence of which has been hitherto unsuspected, was very little below the level of the one above and was of smaller area. Only small traces of it remain, and its period of existence was probably short. 4. Of the lowest and earliest temple, the structure of what may have been the naos or statue-base alone remains. The lowest blocks of this structure are laid on the virgin sand. It was here that numerous objects of gold, ivory, &c. were found. From the style of these objects it is inferred that the period of this earliest temple was probably not earlier than the 7th century B.C. The work was much impeded by abnormally heavy rains.

The repository built at Hendon for the storage of newspapers and other printed matter having been completely fitted with book-presses, the collections of English provincial newspapers and of Scottish and Irish newspapers, consisting of 48,000 volumes, have been removed thither. By special arrangement, the papers are made available to Readers on notice being given.

The Exhibition Gallery of the Prints and Drawings and the Glass and Ceramic Gallery and English Ceramic Ante-Room have been re-painted.

The planing and polishing of the wooden flooring of the Upper Floor of the Museum has been further extended to various rooms; the floor of the Ethnographical Gallery alone remaining to be dealt with.

An improvement has been effected in the service of the Reading Room by widening the gangway used for the delivery of books from the Library.

An exhibition of Mezzotint Portraits, selected chiefly from the collection bequeathed to the Trustees by the late Lord Cheylesmore, has been arranged in the Department of Prints and Drawings.

In the King's Library a temporary exhibition, illustrating the history of the British Navy and commemorating the Nelson Centenary, is displayed, consisting of manuscripts, autographs, books, prints, and medals selected from the collections.

Among the more important additions to the several Departments the following may be specially noticed:—

The Department of Printed Books has acquired a series of rare English and Scottish books printed before the year 1640. Among other rare books, the most notable is a copy of the second edition of the Latin-German Dictionary known as the "*Vocabularius ex quo*," printed at Eltville near Mainz, in 1469, with type which owed its origin to the famous printer Gutenberg.

The Department of Manuscripts has received, by bequest from the late Mr. Charles Alban Buckler, a valuable series of architectural drawings of English Cathedrals and other buildings; and, by gift from Major-General H. P. Babbage, correspondence and papers of Charles Babbage, F.R.S., the mathematician. Among the principal purchases are several collections of historical and diplomatic papers of the 17th, 18th, and early 19th centuries.

The Department of Oriental Printed Books and Manuscripts has secured several rare Arabic MSS. of the 12th, 13th, and 14th centuries.

The Department of Prints and Drawings has benefited by many donations of drawings of the Old Masters and engravings, presented by Mr. Max Rosenheim, Mr. H. J. Pfungst, Mr. E. E. Leggat, and others.

The most conspicuous addition to the Department of Egyptian and Assyrian Antiquities is the sculptured wall from the chapel of the pyramid, in the island of Meroë, of a Queen Candace of the 1st or 2nd century, presented by the Government of the Sûdan. Among the purchases are a series of rare Egyptian scarabs, dating from about 3500 to 650 B.C.; a collection of upwards of six hundred Babylonian inscribed tablets of about 2400 B.C.; and a valuable series of Babylonian cylinder seals.

By gift from the Marquess of Sligo, the Department of Greek and Roman Antiquities has received the greater part of the two flanking columns of the doorway of the Treasury of Atreus at Mycenæ. These have been supplemented by casts of other fragments, presented chiefly by the Greek Government; and a restoration of the structure has been built up in the room of Archaic Greek sculpture.

Among the varied acquisitions of the Department of British and Mediæval Antiquities and Ethnography the most notable are: a collection of jewellery and other objects from Anglo-Saxon graves in Kent, presented through the National Art Collections Fund; a series of Merovingian remains from Herpes, near Angoulême; Tibetan collections from Lhasa and other places in Tibet (pp. 85, 86); and an important ethnographical series from Sarawak in Borneo.

To the Department of Coins and Medals have been added an interesting series of rare Greek Coins of Olbia and Tyra in Sarmatia; a series of rare English and other historical medals of the 17th and 18th centuries; and three pattern crown-pieces of Cromwell and Charles II., in perfect condition, bequeathed by the late Mr. C. E. G. Mackerell.

In this year also the Government of India presented to the Trustees a very important series of Tibetan manuscripts, books, and objects of antiquity and curiosity, chosen from the collections formed during the recent expedition to Lhasa. Owing to delay connected with identification, the several objects were not incorporated at once among the Museum collections. A description of the series is therefore postponed until the Return for 1906.

Gifts of Museum publications, including reproductions of prints and drawings by Old Masters and sets of electrotypes of British Historical Medals, have been made to Free Libraries, Local Museums, and Art Schools throughout the United Kingdom, and to institutions in various Colonies.

The following are the publications issued by the Departments at Bloomsbury during the year:—

Supplement to the General Catalogue of the Library, quarto, 4 parts, viz.: "V—Uzul"; "Whitechapel—Wzl"; "X—Zyromski"; and "Newspapers."

Catalogue of Accessions to the Library, quarto, 26 parts.

Catalogue of Music Accessions. Part XIV.

Cuneiform Texts from Babylonian Tablets, &c., in the British Museum, Part XXI., 50 photo-lithographic plates 1905. Foolscap, boards, 7s. 6d.

The Treasure of the Oxus, with other objects from Ancient Persia and India. (Franks Bequest.) By O. M. Dalton. With 29 plates, map and 81 illustrations. 1905. Quarto, cloth, 21s.; half-vellum, 25s.

Catalogue of the Hebrew and Samaritan MSS. in the British Museum. By G. Margoliouth. Part II., with 10 plates. 1905. Quarto, 3l. 15s.

Catalogue of the Coptic MSS. in the British Museum. By W. E. Crum. With 15 plates. 1905. Quarto, 4l. 10s.

Catalogue of Japanese Printed Books and MSS. in the British Museum, acquired during the years 1899–1903. By Sir Robert K. Douglas. 1905. Quarto, 10s.

Medallic Illustrations of the History of Great Britain and Ireland. Parts III. and IV. Plates XXI.–XXX. and XXXI.–XL. 1905. Folio, 6s. each part.

Catalogue of the Collection of English Porcelain in the British Museum. By R. L. Hobson. With 39 plates and 104 illustrations. 1905. Quarto, 21s.

Reproductions of Prints. New Series. Part XIV. (Specimens of line-engraving by English Masters of the eighteenth century.) 11 plates. 1905. 2l.

A Guide to the Exhibition Galleries of the British Museum (Bloomsbury). Sixth edition, revised. With plans. 1905. Octavo, 2d.

A Guide to the Antiquities of the Early Iron Age in the Department of British and Mediæval Antiquities. With 7 plates and 147 illustrations. 1905. Octavo, 1s.

A Guide to an Exhibition of Mezzotint Engravings, chiefly from the Cheylesmore Collection. 1905. Octavo, 3d.

A Guide to the Naval Exhibition—Nelson Centenary. With 8 plates. 1905. Octavo, 6d.

British Museum, }
31 March, 1906. }

E. Maunde Thompson,
Director and Principal Librarian.

IX.—PROGRESS made in the ARRANGEMENT AND DESCRIPTION OF THE COLLECTIONS, AND ACCOUNT OF OBJECTS ADDED TO THEM in the Year 1905 (Bloomsbury).

DEPARTMENT OF PRINTED BOOKS.

I. *Arrangement.*—The works added to the collection during the past year have, as far as possible, been placed on the shelves of the Library according to the system of classification adopted in the Museum.

The press-marks, indicating their respective localities, have been marked on the inside and affixed to the back of each volume.

The total number of these press-marks amounts to 78,589; in addition to which 41,476 press-marks have been altered in consequence of changes and re-arrangements carried out in the Library; 39,794 labels have been affixed to books and volumes of newspapers, and 109,893 obliterated labels have been renewed.

The process of attaching third-marks to the books in the New Library, with the view of accelerating their delivery to readers, has been continued; 15,657 books have been thus marked during the year, and the corresponding alterations, amounting to 91,471, have been carried out in the General and Hand Catalogues; and 1,199 index-slips have been written for London Newspapers.

The work of collecting together and re-arranging the Incunabula in glazed cases has been completed. Future acquisitions will be arranged on the same system.

The number of stamps impressed upon the articles received has been 405,154.

2,819 presses of books and newspapers have been dusted in the course of the year.

II. *Catalogues.*—(a) *Cataloguing.*—49,851 titles have been written (the term "title" applying equally to a main-title and to a cross-reference). Of these, 35,576 were written for the General Catalogue, 2,684 for the Map Catalogue, and 11,591 for the Music Catalogue.

(b) *Printing.*—34,693 titles and 988 index-slips for the General Catalogue, and 4,802 for the Map Catalogue have been prepared for printing during the year; 34,992 titles and 990 index-slips for the General Catalogue, 7,825 titles for a Catalogue of British Newspapers, 8,489 titles for a Catalogue of the "Thomason Tracts," and 15,245 titles for the Music Catalogue have been printed.

The printing of the Supplement to the General Catalogue has been completed. This Supplement contains the titles of all such books as were added to the Library during the years 1882-1899, but were not incorporated in the Catalogue during the process of printing. Three printed parts, containing the headings under W, Pt. 2, X, Y, and Z, have been delivered by the printer in the course of the year.

(c) *Incorporation.*—*General Catalogue.*—35,148 title-slips and 986 index-slips have been incorporated into each of the three copies of this Catalogue. This incorporation has rendered it necessary, in order to maintain as far as possible the alphabetical arrangement, to remove and re-insert 44,653 title-slips in each copy and to add to each copy 1,039 new leaves.

The system of fortnightly incorporation of accessions to the Library has been carried out with perfect regularity during the past year.

Hand Catalogues.—The number of new entries made in the Hand Catalogue of "Academies" was 393; in that of "Periodical Publications," 528; in that of "Maps and Charts," 626; in that of Music, 884; and in that of London Newspapers, 1,199.

(d) *Map Catalogue.*—2,684 titles have been written for the Map Catalogue, and 171 title-slips have been incorporated into the Reading Room copy. This incorporation has rendered it necessary to remove and re-insert 3,404 title-slips in the same copy and to add 170 new leaves.

(e) *Music Catalogue.*—11,591 titles have been written for the Music Catalogue, and 15,239 title-slips have been incorporated into each of the two copies of it. This incorporation has rendered it necessary to remove and re-insert 28,577 title-slips in each copy and to add to each copy 502 new leaves.

(f) *Shelf Catalogue.*—For this Catalogue, in which the title-slips, mounted on cards, are arranged in order of press-marks, about 34,000 have been so mounted and about 126,300 have been incorporated in their proper order.

(g) *Catalogues of Books of Reference in the Reading Room.*—The additions and alterations in each of the four interleaved copies of the Catalogue of Books of Reference in the Reading Room, which are requisite in order to record the changes in this collection by the addition of new works and the substitution of new for earlier editions, have been made: the number of such additions amounts to 200. Two copies of the two volumes of this Catalogue have been laid down on 420 new leaves and bound in four new volumes, the necessary manuscript alterations in the Catalogue (about 5,000) having previously been made.

Additions have also been made to the collection of books in the Galleries of the Reading Room by the incorporation of new works of interest and importance, and by the substitution of new for earlier editions. The number of such additions amounts to 86.

III. *Binding*.—The number of volumes and sets of pamphlets sent to be bound in the course of the year was 11,715, including 4,216 volumes of newspapers. In consequence of the frequent adoption of the plan of binding two or more volumes in one, the number of volumes returned was 9,631; in addition to which 29 volumes have been repaired in the binders' shops.

Besides this, the following binding work has been done in the Library itself:—6,871 volumes have been repaired; 155 broadsides, &c., have been inserted in guard-books, and 4,448 volumes of reports, parts of periodicals, &c., have been bound in a light style of binding.

The following maps, charts, &c., have also been bound or mounted during the year:—59 atlases and 40 volumes of the 25-inch Ordnance Survey have been bound; 107 maps have been mounted on linen, and 18 on cards; and one portfolio, 6 cases and 79 boxes have been made to contain maps.

29,787 numbers of Colonial Newspapers have been folded into 521 parcels, and 516 such parcels have been tied up and labelled preparatory to being bound.

35 volumes of the Blue Copy of the General Catalogue, 2 volumes of the Red Copy and 11 of the Green Copy have been broken up and rebound in 90 new volumes. Also, 309 columns and 1,703 titles have been re-laid in each of the three interleaved copies of the General Catalogue: a process rendered necessary by the accumulation of titles under certain headings.

Four copies of the Newspaper Catalogue, containing 538 columns, have been laid down and bound in 6 volumes each; while one copy has been interleaved with cartridge paper and bound in 11 volumes for the Hendon Repository.

IV. *Reading Room Service*.—The number of volumes replaced in the General Library after use in the Reading Room was 872,274; in the King's Library, 25,387; in the Grenville Library, 1,627; in the Map Room, 5,685; in the presses in which books are kept from day to day for the use of readers, 694,197; and in the Oriental Department, 393; making a total amount of 1,599,562 volumes supplied to readers during the year, exclusive of those to which the readers have personal access on the shelves of the Reading Room.

The number of readers during the year was 214,940, giving an average of over 711 daily, the room having been open on 302 days; with an average of over seven volumes daily for each reader.

Newspaper Room.—The number of readers during the year has been 21,857, giving a daily average of over 72, the room having been open on 302 days. The number of volumes replaced after use was 59,851, giving a daily average of 198 and of over two volumes to each reader, not reckoning volumes, chiefly Parliamentary Papers, taken from the shelves of the Newspaper Room by the readers themselves.

Map Room.—286 visitors have been admitted to the Map Room for the purpose of special geographical research.

Photography.—There have been 337 applications for leave to photograph from books in the Library; 734 volumes have been thus used, three negatives per volume being the average number of negatives made; and 872 hours have been spent by members of the staff in attendance on photographers.

V. *Accessions.*—(a) 31,752 volumes and pamphlets (including 129 atlases, &c., and 1,939 books of music) have been added to the Library in the course of the year. Of these, 5,949 were presented; 16,329 received under the provisions of the Copyright Act; 485 by Colonial Copyright; 684 by International Exchange; and 8,305 by purchase.

(b) 64,069 parts of volumes (or separate numbers of periodical publications and of works in progress) have also been added to the Library. Of these, 2,258 were presented, 39,653 received under the provisions of the Copyright Act; 1,045 by Colonial Copyright; 265 by International Exchange; and 20,848 by purchase.

(c) 1,275 maps in 8,508 sheets have been added to the collection in the course of the year. Of these, 450 maps in 1,328 sheets were presented; 641 maps in 6,594 sheets were received under the provisions of the Copyright Act; 86 maps in 88 sheets, by Colonial Copyright; and 98 maps in 498 sheets were acquired by purchase.

(d) 8,222 Musical Publications have been added to the collection. Of these, 7,305 were received under the provisions of the Copyright Act; 580 by Colonial Copyright; and 337 acquired by purchase.

(e) The number of newspapers published in the United Kingdom, received under the provisions of the Copyright Act during the year, has been 3,331, comprising 228,638 single numbers. 1,199 of these newspapers were published in London and its suburbs; 1,602 in other parts of England and Wales and in the Channel Islands; 293 in Scotland; and 237 in Ireland. 255 sets, containing 35,525 numbers of colonial and foreign newspapers, have been presented; and 84 sets, containing 12 volumes and 15,263 numbers of current colonial and foreign newspapers, have been purchased.

(f) 3,965 articles not included in the foregoing paragraphs have been received in the Department. These consist of Broad-sides, Parliamentary Papers, and other miscellaneous items.

The total number of articles enumerated above, as having been received in the Department during the past year, exclusive of newspapers, is 109,283.

Acquisitions of Special Interest.—Ninety English and Scotch books printed before the year 1640, and forty-two foreign Incunabula, have been acquired during the year 1905.

Among the English books the most interesting are :—

Basille, Theodore, *i.e.*, Thomas Becon: "A Christmas Banquet garnished with many pleasant and dainty dishes. By Theodore Basille." Printed by John Mayler for John Gough, London, 1542.

"The Order of the Greate Turkes Court." R. Grafton, London, 1542. This book is mentioned by Dibdin, but no other copy has been discovered.

"An Almanacke and Pronostication of Jaspar Laet, anno 1546." Printed by John Herford, 1545. Hitherto unknown. Taken from a binding.

Bale, John, Bishop of Ossory: "The seconde parte of the Image of both Churches." Printed in 1549 or 1550. No copy of the first part of this book is recorded. The present is the only copy of the second part known.

"Disputatio inter clericum et militem super potestate Prelatis Ecclesiae atque Principibus terrarum commissa." Thomas Berthelet, London, about 1550.

Virgilius: "Opera." H. Bynneman, London, 1570. Believed to be the first edition of Virgil's works printed in England.

Vegetius, Flavius: "The foure Bookes of Martiall Policye." Thomas Marshe, London, 1572. With several woodcuts.

Yates, James: "The Castle of Courtesie" and "The Hould of Humilitie." Two books printed by John Wolfe, London, 1582.

Valdes, Francisco de: "A Dialogue of the Office of a Sergeant Major." J. Wolfe, London, 1590.

Sidney, Sir Philip: "The Countess of Pembroke's Arcadia. The Second Edition." W. Ponsonbie, London, 1593. The first edition, printed in 1590, and the third in 1598, are already in the Library. For this second edition the emblematical title-page used in later editions and in other books was designed.

"Regimen Sanitatis Salerni. The Schoole of Salerne." Benj. Alsop, London, 1617. This appears to be the only printed English translation of the Regimen of the School of Salerno.

"The Laws or Standing Orders of the East India Company, 1621." The earliest edition of the Regulations of the East India Company at present in the Library was published in 1700 or 1701.

"Ecclesiae Gemitus sub Anabaptistica Tyrannide." Printed in 1649 and bearing the imprint "Æræ Martyrii Caroli anno primo."

“Prayers of Intercession for their Use who mourn in secret for the publique Calamities of this Nation.” Printed in 1659, containing Prayers for Charles II. and Queen Henrietta Maria and an “Anniversary Prayer” for the 30th January.

A considerable number of books printed in Scotland or bearing upon Scotch history have been added to the Library during the year. Among these the following are of special interest :--

“Elegie nuptiale présentée à Princesse Magdaleine le lendemain de ses nopces avec le Roy d’Escoce.” Printed in 1536. Madeleine, eldest daughter of Francis I. of France, married James V. of Scotland on the 1st January 1537, and died shortly after landing in Scotland, in July of the same year.

Knox, John : “Epistle unto the inhabitants of Newcastle and Barwicke.” Geneva, 1559.

Barnestaple, O. : *L’histoire et vie de Marie Stuart. Composée en Latin et faicte françoise.* Paris, 1589.

“Actes of Parliament past seen the Coronation of the King, 1567–1592 in furtherance of the progress of the true Religion.” R. Waldegrave, Edinburgh, 1593.

Two editions of the “Book of Common Order of the Church of Scotland,” the first printed by Richard Schilders, Middelburg, 1594, the second by Andrew Hart, Edinburgh, 1611.

“Articles concerning the Authoritie of Justices within the Kingdome of Scotland.” Edinburgh, 1612.

“A Forme of Prayer” (Set forth to be used on the 5th August as a Thanksgiving for the escape of James VI. from the Gowrie Conspiracy in the year 1600). B. Norton and J. Bill, London, 1618.

“Protestation of the General Assemblie and of the Subscribers of the Covenant lately renewed in the High Kirk and Mercate Cross of Glasgow, November, 1638.” George Anderson, Glasgow, 1638. The first book known to have been printed at Glasgow. The printer, George Anderson, before this date had a press in Edinburgh.

“Poems.” J. Ballantyne, Edinburgh, 1803. In this volume appeared anonymously the first issue of Thomas Campbell’s “Lochiel” and “Hohenlinden.”

The following are the most interesting among the Incunabula and other foreign books acquired during the year :—

A copy of the second edition of the Latin-German Dictionary commonly known as the “*Vocabularius ex quo.*” Printed by Nicolaus Bechtermünze at Eltville near Mainz, 1469. This book is specially interesting on account of its connection with Johann Gutenberg, who after his severance

from Johann Fust is believed to have cut for himself a small type, with which he printed in 1460 an edition of the "Catholicon," of Balbus Januensis. Shortly after printing this book, Gutenberg sold his press and types; the type which he used in printing the "Catholicon" passing into the hands of Heinrich Bechtermünze, who set up a press at Eltville in 1467. Here he printed two books "De Articulis Fidei" of Thomas Aquinas and the "Vocabularius ex quo." In the course of printing the latter Heinrich died, and the work was completed by his brother Nicolaus Bechtermünze, who eighteen months later produced a second edition, still using Gutenberg's types. The work now acquired is a copy of this second edition.

Aeneas Sylvius (Pope Pius II.): "De Duobus Amantibus." Printed by Adam Rot at Rome, about 1472.

Schick, M.: A Treatise on medicated waters, perfumes, &c. Printed by Johann Bämle at Augsburg, 1477.

Quintus Curtius: "Historia Alexandri Magni." Printed by Pedro Posa at Barcelona, 1481. The first production of this printer at Barcelona.

Pico della Mirandola, Giovanni: "Apologia." Printed by E. Silber at Rome, 1487.

"Sermones Thesauri novi de Sanctis." Printed by Martin Flach, at Cologne, 1488.

Matthaeus Bendinellus: "Tractatus de balneis lucensibus." Printed by Sigismund Rodt at Pescia, 1489. A press hitherto unrepresented in the Library.

An Itinerary from Paris to Rome. Printed at Paris, about 1490. One of a set of three Itineraries, of which two are already in the Library.

Niger, Franciscus: "Ars Epistolandi." Printed by Pedro Posa at Barcelona, 1494.

Bradwardine, Thomas, Archbishop of Canterbury: "Arithmetica." Printed by Gui Marchand at Paris, 1495.

Pico della Mirandola, Giovanni Francesco, the Younger: "Liber de veris calamitatum causis nostrorum temporum." Printed by Joannes Mazochius at Mirandola, 1519. The first book printed at Mirandola.

Hurtado de Mendoza, Diego: "Tragedia llamada la Madre Claudina." Printed at Toledo, 1548. The only known copy of this edition.

Roederer, P. L.: "Œuvres du Comte P. L. Roederer, publiées par son fils le baron A. M. Roederer," 8 vols. Paris, 1854. A small number of copies of this book were privately issued. The value of the work consists in the notes taken by Count Roederer of words uttered in conversation and on public occasions by Napoleon I., during the Consulate and Empire. These notes, which are of great interest and importance, are to be found only in Vol. III. of the book.

A few books in bindings of special interest and value have been added to the Library during the year.

Among these are :—

“The Works of King Charles the Martyr,” London, 1652. In a finely tooled contemporary English binding.

“The Art of Tonnage and Poundage,” London, 1702. With the Arms of Queen Anne on the binding. No example of a binding bearing the Arms of Queen Anne has hitherto been in the British Museum. The acquisition of this book completes the collection of English Royal Armorial bindings from Henry VIII. to the present time.

Donations.—Among the many Donations with which the Library has been enriched during the year 1905 are the following :—

Rossetti, Gabriele: “Il Mistero dell’ Amor platonico del medio evo,” 5 vol. London, 1840.

A presentation copy to the Right Hon. John Hookham Frere, containing many MS. notes by him. *Presented by Paget Toynbee, Esq.*

“Wintertage auf Ithaka,” by H.I. and R.H. the Archduke Ludwig Salvator, Prague, 1904. *Presented by the Archduke.*

“Zante,” by H.I. and R.H. the Archduke Ludwig Salvator, Prague, 1904. *Presented by the Archduke.*

“Le Galerie de Tableaux de Monsieur Rodolphe Kann à Paris.” Paris, 1905. *Presented by Monsieur Rodolphe Kann.*

“Une Croisière au Spitzberg. Yacht Maroussia,” 1904. *Presented by H.R.H. the Duke d’Orléans.*

“Chantilly. Le Cabinet des Livres,” Paris, 1905, and “Le Triomphe et les Gestes de Monseigneur Anne de Montmorency. Poème de Jean de Luxembourg.” Paris, 1904. *Presented by Monsieur Léopold Delisle.*

“Armorial des Princes du Sang royal de Hainaut et de Brabant.” Paris, 1905. *Presented by Prince Édouard de Block.*

“Lavori in ferro battuto di pubblici e privati Edifici in Vicenza, 1905.” *Presented by the Municipality of Vicenza.*

“Richard Wagner. Engraved throughout by Mr. Allan Wyon for the Honourable Mrs. Burrell on specially manufactured paper, with watermark facsimile of Richard Wagner’s autograph signature.” One hundred copies only printed. *Presented by Mrs. J. Henniker-Heaton.*

A collection of Newspapers published in the British Colonies during the year 1904, in continuation of the series previously presented. *Presented by the Royal Colonial Institute.*

Maps.—The most important additions to the collection of Maps have been :—

Three Maps by G. Tatton, engraved by Benjamin Wright. The first, of the Pacific, dated 1600, showing the recent discoveries of Sir Francis Drake; the second of California and Mexico, 1616; the third of Canada, about the same date.

“Atlas Terrestris. A collection of choice Mapps of all the world, by John Seller,” about 1680.

A large plan of London by John Rocque, 1746, in four parts, the whole measuring 12 ft. 8 in. by 6 ft. 8 in.

Sixteen of the “Maps of the Counties of England by C. and H. Greenwood,” scale 1 in. to the mile. These complete the Museum set of these Maps, which were published between 1815 and 1830.

Music.—The most interesting additions to the collections of Music have been :—

Monte, Filippo di : “Secondo Libro di Madrigali spirituali a sei Voci.” Venice, 1589.

Dering, Richard, Organist to Queen Henrietta Maria : “Cantiones Sacrae quinque Vocum.” Antwerp, 1634.

Abell, John : “A Choice Collection of Italian Ayres.” London, 1703.

Richardson, William : “Lessons for the Harpsichord.” London, 1708.

Meyerbeer, Giacomo : A copy of the full score of “L’Africaine,” 1865.

G. K. Fortescue.

DEPARTMENT OF MANUSCRIPTS.

1. *Catalogue of Additions*.—All the MSS. acquired in 1905, viz., Additional 37022–37232, and Egerton 2853–2861, have been described and indexed. The descriptions have also been revised.

The descriptions of Charters and Seals for the Sexennial Catalogue have been completed and indexed.

2. *Catalogue of Papyri*.—The preparation of descriptions, transcripts, annotations, &c., has been continued for Vol. III., the printing of which has advanced to sheet K.

3. *Catalogue of the Royal MSS.*—One hundred and thirty-six MSS. in the Royal collection have been described for the new Catalogue in progress.

4. *Catalogue of Music*.—Sheets 2D–2H (end of text) of Vol. I. (Sacred Vocal Music) have been printed off, and the volume has been indexed. Index I. (Initial Words and Titles) has been printed, and the slips of Index II. (Names and Subjects) have gone to press. Sheets B–X of Vol. II. (Secular Vocal Music) have been printed off.

5. *Catalogue of Romances*.—Progress has been made in the preparation of Vol. III.

6. *Catalogue of Charters*.—The descriptions of Additional Charters 29526–30000, 34313–36000, 40961–45797, and Egerton Charters 586–621, acquired in 1887–1900, have been revised, and the Charters have been indexed.

Additional Charters 47708–47733 (acquired in 1903), and 53116–53120 (acquired in 1904), have been described and indexed.

The revision of the Index-slips of Religious Houses and other Corporate Bodies of all the old Collections of Charters and of the later acquisitions down to 1881 inclusive has been completed. The slips of topographical entries from Additional and Egerton Charters acquired in 1882–1900 have been partially revised for incorporation with the above, to form Vol. II. of the General Index of Charters. Letter A is ready for press.

7. *Class Catalogue of MSS.*—The printed descriptions of MSS. acquired in 1904 have been incorporated.

8. *Binding*.—Two hundred and seventy-four Additional MSS. newly acquired and one hundred and eighteen MSS. of the old Collections have been bound or repaired.

Eight hundred and eleven Additional Charters and Rolls have been repaired.

Forty-one Books of Reference and Catalogues have been bound or repaired.

Twenty-six Papyri have been bound and glazed.

9. *Verification.*—The entire collection of MSS. has been verified by comparison with the Shelf-Lists.

10. *Exhibitions.*—A special exhibition of MSS. illustrating the history of the British Navy has been arranged in connection with the Nelson Centenary, and a Guide to it has been printed.

The General Collection of MSS. exhibited to the public has been re-arranged, and the new Guide is being prepared.

11. *Stamping, folioing, and placing.*—Four hundred and fifty-four Additional MSS., six hundred and ninety-four Charters and Rolls, and one hundred and forty-four Books of Reference have been stamped, with a total of 20785 impressions.

One hundred and seventy-nine MSS. have been folio'd, with a total of 39934 folios. Index-slips to the number of 25050 have also been folio'd.

One hundred and sixty-nine MSS. have been placed, press-marked, and entered in the Hand- and Shelf-Lists; and two hundred and ninety-eight Charters and Rolls have been placed and entered in the Inventory. Numbers have been written on one thousand eight hundred and fourteen Charters and Rolls.

Two hundred and eight Seals and Casts have been provided with boxes, placed and entered in the Inventory.

12. *Books of Reference.*—One hundred and eighty-four volumes and parts have been received, catalogued and placed.

13. *Consultation of MSS.*—The number of MSS. consulted in the Students' Room attached to the Department was 31103, and of those delivered in the Reading Room 408.

The number of Charters, Rolls and Seals consulted was 3582.

The number of Students working in the Department was 10623.

Magna Charta was exhibited to 6958 visitors.

14. *MSS. photographed.*—Five hundred and fifty MSS. (including Charters and Seals) were allowed to be photographed, with a total of 1527 photographs taken. Approximately 358 hours were spent by members of the staff in attendance on photographers.

15. *Acquisitions.*—The number of Manuscripts and Documents, &c., acquired during the year has been:—

General Collection of MSS.	-	-	-	-	211
Egerton MSS.	-	-	-	-	9
Charters and Rolls	-	-	-	-	300
Detached Seals and Casts	-	-	-	-	208

The most important public sales of MSS. during the year were mainly confined to autograph letters and historical documents, including the correspondence of Robert Long, Secretary of State to Charles II. during his exile, the Cork and Orrery collection, the Fox-Bunbury collection relating to the Napoleonic Wars, and the Holding collection of Nelson letters, &c. The several purchases made on these occasions are noted below. Among other MSS. of special interest purchased privately was the original proclamation, signed by the Lords Justices of England, offering 30,000*l.* for the person of Prince Charles Edward Stuart, 1st August, 1745.

By bequest of Charles Alban Buckler, Esq., who died 14th June, 1905, at the age of eighty, the Department acquired a valuable series of eighty-eight highly finished water-colour views of English Cathedrals, Churches, Castles and other architectural subjects, by his grandfather John Buckler, his father John Chessell Buckler, and himself. They supplement the very large collection of architectural drawings by the same three talented artists which were purchased from him in 1898-1900. The bequest also included twenty-four volumes of genealogical and heraldic collections. The only other bequest received within the year was from John A. C. Vincent, Esq. It consists of extensive genealogical and antiquarian collections made by him at the Public Record Office and elsewhere, and is now arranged in thirty-three volumes.

The most important donations were three volumes of transcripts from the Portuguese archives made for the purpose of the arbitration with Brazil as to the boundaries of British Guiana, presented by the Secretary of State for Foreign Affairs; twenty-four volumes of correspondence and papers of Charles Babbage, F.R.S., the eminent mathematician and inventor of calculating machines, presented by his son, Major-Gen. H. P. Babbage; and the MS. collections and correspondence of Charles Godfrey Leland relating to the Romany language and people, presented by his niece Mrs. Joseph Pennell. The last donation also included a number of printed books; the MSS. by the condition of gift are reserved from public use for 25 years.

Among other additions, by purchase, donation, or bequest, are the following:—

Bible, of the Latin vulgate version, with a peculiar order of books; late 13th cent.

“The Desert of Religion,” and numerous other poems and prose pieces, in northern English, with roughly drawn illustrations; 15th cent.

Latin Grammar, with Latin-English vocabularies, a hymn-book, &c., apparently the property of a boy at the grammar-school of St. Anthony, Threadneedle Street, London; 15th cent.

Treatises on physiognomy and on poisons, in Latin, by Petrus de Abano, of Padua; written in Italy, 15th cent. *Presented by Francis W. Dymond, Esq.*

Treatise, in Italian, on Italian and Spanish currency and the means to restore that of Naples, by Thomas Oliver; 1508.

Five general Portolani, 1473-1623, and two detached maps of the coasts of Europe, 1520 and 1570; executed in Italy by Grazioso Benincasa, Georgio Sideri, Vesconte de Maiollo, Diego Homem, and others.

"The Booke of the sea carte, called the Rutter," &c.: sailing directions between the British Islands and the Continent from Ushant to the Elbe, with other nautical matter and four coloured maps; late 16th cent.

Chronicle of Scotland to 1385, in Latin, by John Fordun; 15th cent. Apparently the archetype of the MS. used by Skene as the basis of the printed text.

Register, in Latin, of proceedings at Rome in the suit of Henry VIII. for divorce from Catherine of Aragon, 1529-1533. A transcript from the original in the papal archives, 1778.

Register of certificates in causes before the Star-Chamber; 1593-1595.

Documents connected with projects for the marriage of Charles, Prince of Wales, with the Infanta of Spain, and subsequently with Henrietta Maria of France; 1602-1625.

Official correspondence and papers of Robert Long as Secretary of State to Charles II., chiefly letters of Residents and other royalist agents abroad; 1649-1654. Included is an account of the sale of the jewels of Charles at Amsterdam, 23 August, 1650.

Correspondence of Roger Boyle, Earl of Orrery, President of Munster, chiefly with the Duke of Ormonde, Lord Lieutenant of Ireland; 1660-1674. Three volumes.

Correspondence and papers of George Stepney, Envoy to Berlin in 1698 and to Vienna in 1702-1704; 1677-1707. Two volumes.

Correspondence of Charles Boyle, Earl of Orrery, Envoy in Flanders, chiefly relating to the Treaty of Utrecht and including letters of Lord Bolingbroke, Secretary of State; 1711-1714.

Roll of accompt of T. Spence, paymaster of the Royal Bounty to widows of military officers; 1733-1735. *Presented by Charles Dalton, Esq.*

Letters of W. Pitt, Earl of Chatham, on the character of Prince Ferdinand of Brunswick, the battle of Zorndorff, &c., and of H. Fox, Lord Holland (5), and W. Windham (2); 1755-1791.

Letter-book of Henry Shirley, Chargé d'Affaires at Moscow and St. Petersburg; 1767-1768.

Correspondence and papers of John Stuart, 1st Marquis of Bute, during his embassies at Turin, 1779-1782, and at Madrid, 1795-1796. Six volumes.

Correspondence of Sir William Hamilton, Envoy to Naples, chiefly with Lord Grenville, Secretary of State; 1798-1800.

Papers concerning the French occupation of Malta and the battle of the Nile, 1798; with three letters of Lord Nelson, 1798-1805, and a letter to him from General Dumouriez after the battle of Copenhagen, 1801.

Letters of Admirals Lord Nelson, Sir. W. Sidney Smith, Sir R. Bickerton, and Sir R. Calder; 1800-1813.

Letters to General H. E. Fox from his brother C. J. Fox (on the state of Ireland), Gen. Hutchinson, Lord Holland (on the death of C. J. Fox), and Lord Collingwood; 1802-1807.

Correspondence of Gen. H. E. Fox, as Commander-in-Chief of the English forces in Sicily and Ambassador to the Court at Palermo, with other papers relating to military affairs in the Mediterranean; 1805-1814.

Correspondence of Col. H. E. Bunbury, as Under Secretary of State for War, relating to the campaigns in Germany, France and Belgium, the restoration of the Bourbons, the return of Napoleon from Elba, &c.; 1813-1816. Two volumes.

Letters on the death of W. Huskisson, M.P., from a railway accident, chiefly addressed to his widow; 1830-1831. *Presented by Col. J. H. Rivett-Carnac, C.I.E.*

Journal-letters of Capt. A. Conolly and Col. C. Stoddart during their imprisonment at Bokhara, 2nd Jan.—22nd May, 1842; with letters of the same and of Dr. Joseph Wolff, 1834-1846.

Letters of Sir R. Peel on the repeal of the Corn-laws, 1846; and of R. Cobden on the limits to the offensive power of Russia, 1849.

"The Fall of Angels," a contemporary copy, with variations, of Dryden's play, "The State of Innocence," 1674; and "Try before you Trust," an anonymous comedy, late 17th cent.

Autograph minor poems, &c., of William Cowper; 1770-1798.

"When the Lamp is shattered," autograph stanzas by P. B. Shelley.

"The Story of Rimini" and other autograph poems by J. H. Leigh Hunt; with letters to him from Thomas Moore, 1811-1814.

"The North and the South," the last poem of E. B. Browning, 1861, in the hand of Robert Browning, her husband.

"Svinedrengen," or "The Swineherd," an autograph fairy tale by Hans Andersen.

Miniature of the landing of Hernando Cortés in Mexico in 1519; painted on vellum by a nearly contemporary Spanish artist, and apparently cut out of a MS.

Notes on painting, by Sir Joshua Reynolds; an autograph draft, apparently for a lecture.

Correspondence of the family of Cotman and of other artists of the Norwich school; 1817-1864. Five volumes.

Minute-book of the "Artists' Conversazione" at Norwich; 1829-1839.

Letters of Bernard Barton, the Quaker, relating to pictures by J. Crome, J. S. Cotman, and others; 1843-1847.

Autobiography of John Wood (1801-1870), artist, illustrated with numerous sketches, copies of his pictures, &c. Nine volumes. *Presented by Thomas Gray, Esq.*

Correspondence and papers of the family of Herbert of Cherbury, including twenty-two poems of Edward, 1st Lord Herbert, corrected by himself; 1630-1735.

Correspondence of the Rev. Philip Morant, chiefly on subjects connected with his *History of Essex*; 1728-1770. Seven volumes.

Letter of Edmund Burke to Sir C. Bunbury, on George Crabbe the poet and on the character of C. J. Fox; 1781.

Letter of Sir William Jones, the Orientalist, on Halhed's *Gentoo Laws*, the future of the United States, &c.; 1788.

Letters to J. F. Newton from George Canning (3), William Godwin, Harriet Shelley, and T. Jefferson Hogg; 1788-1838.

Letters of Isaac D'Israeli, Benjamin Disraeli (2), and Count D'Orsay; 1795-1839. *Presented by Walter S. Sichel, Esq.*

Letters and papers relating to Mungo Park's last expedition to explore the Niger, including a letter from him to Sir Joseph Banks, dated Sansanding, 16th Nov. 1805, three days before he disappeared; 1804-1811.

Two letters of S. T. Coleridge on the evidence for the truth of Christianity; 1816.

Letters (24) of Thomas De Quincey to the proprietors of the *London Magazine*; 1821-1824.

Letter of Sir Walter Scott to John Cundall, on the game of golf and the origin of its name; 1824.

Letter of B. Disraeli to his sister, on his speech on Chartism and on the reception of *Count Alarcos*; 1839.

Letter of Charles Dickens, criticising and declining a story; 1870.

Topographical and antiquarian collections of Sir Henry Ellis, K.H.; 1796-1860. Eight volumes. *Presented by Henry J. Ellis, Esq.*

Heraldic collections, with classified indices to grants of arms, by Joseph Foster; late 19th. cent. Four volumes.

Church notes, monumental inscriptions, &c., in England and Wales by the Rev. Walter D. Sweeting; *circ.* 1870-1900.

Chartulary, in Latin, of Snelleshall Priory, in Whaddon, co. Bucks; 13th. cent.

Charters (272) relating to Snelleshall Priory, the manors of Whaddon and Winslow, &c., co. Bucks; 13th-18th centt. With court-books of Whaddon manor, &c., 1684-1713.

Draft answer by Ralph and Laurence Holynshed to a bill of complaint by Sir John Savage for a trespass near Macclesfield, co. Chester; *circ.* 1485-1490. *Presented by Robert Steele, Esq.*

Subsidy-roll for Hinkford Hundred, co. Essex, signed by the commissioners; 1664.

Two rentals of Rainham, co. Kent; 14th cent. and 1486.

Five quires of a Chartulary, in Latin, of Pipewell Abbey, co. Northampton (the bulk of the MS. being already in the Museum); 13th cent. *Presented by the Society of Antiquaries.*

Transcripts of parish-registers at Ipswich, co. Suffolk, 1539-1812, by the Rev. Edward Cookson. Eight volumes. *Presented by the Rev. E. Cookson.*

Charters (19) relating to Easebourne Priory, &c., co. Sussex; 1361-1456. *Presented by F. Quekett Zouch, Esq.*

History of Protestantism in Dieppe, 1557-1685, by Guillaume and Jean Daval, in French; with an account by Jean Périgal of the dragonnades in Nov. 1685 and his imprisonment and sufferings until he was set on shore, with his parents and others, at Dover, 28th April, 1688. Copy by Jacques Périgal, 1723.

Letters testimonial of John Zapolya, King of Hungary, with signature and seal; 1559. *Presented by Louis Clarke, Esq.*

Diary by the Rev. John Moore, Chaplain at Cawnpore, during the Indian Mutiny, Oct. 1857-April, 1858; with plans and painted views, on calico, of Cawnpore, Lucknow, Delhi, &c.

Index of testators whose wills are preserved in Barbados ; 1776-1800.

Autograph account of British Guiana, by William Hilhouse, Quartermaster General of Indians; *circ.* 1830-1835. *Presented by the Secretary of State for the Colonies.*

Vocal and instrumental compositions, in score, by the Rev. R. Creyghton, D.D.; 1727.

"Recueil de Vaudevilles," &c., in score; 1728. *Included in a bequest of printed books by H. S. Ashbee, Esq.*

Music in "The Tempest," &c., by H. Purcell, with compositions by Tallis, Blow, Pelham Humfrey, and others; 18th cent.

"Come let us agree," treble part, by H. Purcell; 18th cent. *Presented by W. Barclay Squire, Esq.*

Peal-book of the London Society of bell-ringers known as the "Junior Cumberland Youths"; 1784-1824. *Presented by the Society of Cumberland Youths.*

Autograph MS. of Robert Schumann's Sonata in F. minor (op. 14); 1836.

"Love's Triumph," autograph opera by W. Vincent Wallace, in full score; 1862.

Autograph drafts of compositions, vocal and instrumental, by John Liptrot Hatton; 1869-1870.

George F. Warner.

DEPARTMENT OF ORIENTAL PRINTED BOOKS AND
MANUSCRIPTS.

Cataloguing and Arrangement.—The numbers of the sheets of the various Oriental Catalogues sent to press in 1905 are:—Coptic MSS., $17\frac{1}{4}$ sheets; Gujarati Accessions, 13 sheets; Hebrew MSS., $1\frac{1}{2}$ sheets; Sanskrit Accessions, 17 sheets; Sindhi MSS., 3 sheets.

The numbers of the Titles written for the Catalogues are:—Amharic, 3; Arabic, 866; Armenian, 141; Assamese, 13; Baluchi, 5; Bengali, 219; Bugis, 2; Burmese, 58; Canarese, 19; Chinese, 265; Coptic, 5; Ethiopic, 23; Georgian, 21; Gujarati, 104; Hebrew, 183; Hindi, 276; Hindustani, 367; Japanese, 234; Javanese, 26; Kashmiri, 2; Kurdish 7; Kurku, 1; Kurukh, 2; Korean, 95; Malay, 41; Malayalam, 180; Maltese, 5; Mandaitic, 7; Marathi, 134; Oriya, 24; Panjabi, 70; Persian, 968; Pushtu, 13; Sanskrit, 648; Santali, 3; Sindhi, 57; Syriac, 22; Tamil, 319; Telugu, 361; Turki, 4; Turkish, 134; Zend, 19.

Sixty-seven Hebrew MSS., 1 Hindustani MS., and 1 Persian MS. have been fully catalogued.

Short descriptions of 59 MSS. acquired have been entered in the Descriptive List, the Register, and the Classed Inventory.

Thirteen Printed Books (ff. 2,496) and 60 MSS. (ff. 9,88) have been folio'd.

Binding.—The numbers of Printed Books and MSS. sent to the Binders are:—Arabic Books, 46; Chinese Books, 67; Hebrew Books, 31; Sanskrit Books, 212; MSS., 130; Pamphlets, 51.

Students.—The number of Students working in the Students' Room attached to the Department during the year is 3,552. The number of Oriental Printed Books consulted in the Department is 6,330, and of those used in the Reading Room 407. The number of Oriental MSS. consulted in the Students' Room is 7,414.

Photography.—Thirty-one applications have been made to photograph from books and MSS., and 87 negatives have been taken.

Additions.—The number of works added to the Department during the year is 1,481, of which 1,379 are Printed Books and 102 are MSS.

Of the Printed Books, 241 were bought; 873 were received under the India Copyright Act; 93 were received under the Colonial Copyright Act; and 172 were presented.

The MSS. are :—

Arabic	-	-	-	-	-	23
Arabic and Persian	-	-	-	-	-	1
Arabic and Spanish	-	-	-	-	-	1
Bengali	-	-	-	-	-	4
Chinese	-	-	-	-	-	1
Chinese and Tibetan	-	-	-	-	-	1
Hebrew	-	-	-	-	-	3
Hindustani	-	-	-	-	-	3
Japanese	-	-	-	-	-	1
Pali	-	-	-	-	-	8
Pali and Siamese	-	-	-	-	-	1
Pali and Sinhalese	-	-	-	-	-	5
Persian	-	-	-	-	-	8
Sanskrit	-	-	-	-	-	8
Sanskrit and Sinhalese	-	-	-	-	-	2
Sinhalese	-	-	-	-	-	21
Sunda	-	-	-	-	-	1
Syriac	-	-	-	-	-	2
Tamil	-	-	-	-	-	1
Tibetan	-	-	-	-	-	3
Turkish	-	-	-	-	-	5

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The most important acquisitions are :—

Arabic MSS.—1. The Arabic version of three of the works of Galen, namely (a) *Kitāb al-buḥrān*, “De Crisibus,” (b) *Kitāb aiyām al-buḥrān*, “De Diebus Decretoribus,” and (c) *Kitāb fi aṣnāf al-ḥummayāt*, “De Differentiis Febrium.” A.H. 580 (A.D. 1184). 8°. None of these treatises has hitherto been known to exist in Arabic.

2. *Nazm al-tafsīr*, the *Muʿallakah* poem of Imruʿ al-Ḳais, accompanied by a commentary by Abu Usāmah Junādah b. Muḥammad al-Azdī al-Harawī (died A.H. 399). XIIth cent. 4°. No other copy of this commentary is known to exist.

3. *Al-Jāmiʿ al-kabīr*, a treatise on Ḥanafi law, by Muḥammad b. al-Ḥasan al-Shaibānī (died A.H. 132). Vol. I. A.H. 601 (A.D. 1204). 4°. Part of a rare work; two detached volumes only are recorded, at Cairo and at Constantinople.

4. *Al-Zij al-muʿtabir al-Sanjari*, astronomical tables by Abu Manṣūr ʿAbd al-Raḥmān al-Khāzinī, including also tables of conjunctions and eclipses, of dynasties, of latitudes and

longitudes, for co-ordination of different eras, for determining feasts and fasts, &c., with explanatory chapters. Composed about A.H. 532 for Sulṭān Sanjar b. Malikshāh (died A.H. 552). A.H. 620 (A.D. 1223). 4°. The only other MS. at present known is the author's autograph in the Vatican.

5. Sharḥ al-ishārāt, a commentary by Fakhr al-Dīn al-Rāzī (died A.H. 606) upon the Kitāb al-ishārāt wa'l-tanbihāt, a systematic treatise on speculative philosophy by Ibn Sīnā. A.H. 634 (A.D. 1236). 4°.

6. Kitāb ghana wa-mana, a manual of medicine by Abu Manṣūr al-Ḥasan b. Nūḥ al-Ḳumrī (flourished about A.H. 350, A.D. 961). A.H. 678 (A.D. 1279); written by a Persian scribe in the island of Uwāl, near Baḥrain. 8°.

7. I'tāb al-kuttāb, biographical notices of state secretaries, by Muḥammad b. 'Abd Allāh al-Ḳudā'i, called Ibn al-'Abbār (died A.H. 658). XIII-XIVth cent. 12°.

8. Majma' al-baḥrain, a treatise on Ḥanafī law by Aḥmad b. 'Alī ibn al-Sā'atī (died A.H. 696), with a commentary by the author. Vol. 2. XIII-XIVth cent. 4°.

9. Al-Mukhtār min madīḥ al-mukhtār, a collection of poems in praise of Muḥammad by Yaḥya b. Yūsuf al-Ṣarṣarī (died A.H. 656). XIII-XIVth cent. 4°.

10. An anonymous commentary upon al-Ḥāwi fi al-fatāwī, a treatise on law by Najm al-Dīn al-Ḳazwīnī (died A.H. 665). Vol. 2-4. A.H. 745-749 (A.D. 1345-1349). 4°.

11. Mughni al-labīb, a treatise on Arabic syntax by 'Abd Allāh ibn Yūsuf ibn Hishām (died A.H. 761). A.H. 760 (A.D. 1359). Transcribed in Damascus, and collated with a MS. copied from and collated with the author's original. 4°.

12. Al-Muḥākamat 'ala Sharḥ al-ishārāt, glosses and criticisms by Ḳuṭb al-Dīn al-Rāzī (died A.H. 766) upon the two commentaries on Ibn Sīnā's Kitāb al-ishārāt, viz., those of Fakhr al-Dīn al-Rāzī and Naṣīr al-Dīn al-Ṭūsī. A.H. 761 (A.D. 1360). 4°.

13. Al-Jāmi' li-aḥkām al-ḳur'ān, an extensive commentary on the Koran, by Muḥammad b. Aḥmad al-Kurṭubī (died A.H. 671). Vol. 13 (Surah xxxvii. 147-xlvi. 33). A.H. 762 (A.D. 1360). 4°.

14. Sharḥ al-Sunnah, an extensive collection of Traditions, by al-Ḥusain b. Mas'ūd al-Farrā al-Baghawī (died A.H. 516). Vol. 6. XIVth cent. 4°. No copy of this volume has hitherto been recorded as extant.

15. Al-Ta'rīkh al-sāliḥī, a compendium of Moslem history, by Muḥammad b. Sālim ibn Wāṣil al-Hamawī (died A.H. 697). Vol. 1, from the Creation to the death of Ḥasan, A.H. 41. XIVth cent. 8°.

16. Al-Wāfi bi'l-wafayāt, a biographical dictionary by Ṣalāḥ al-Dīn al-Ṣafadī (died A.H. 764); a detached volume, containing part of the lives of persons named Muḥammad. XIVth cent. 4°.

17. Risālat fi 'ilm al-firāsah, a treatise on the art of physiognomy, by Muḥammad ibn Abi Ṭālib al-Dimashqī (died A.H. 727). XVth cent. (lacunae supplied XVIIIth cent.) 8°. The only other MS. recorded is in the Khedivial Library in Cairo.

18. A Muḥammadan prayer-book, partly in Arabic, partly in "Aljamia," i.e., Spanish in the Arabic character. XVIIth cent. 12°.

19. Al-Fathīyah fi 'ilm al-mūsīkī, a treatise on music, by Muḥammad b. 'Abd al-Ḥamīd al-Lādīkī, composed under Sulṭān Bāyazīd ii. (A.H. 886-918, A.D. 1481-1512). A.H. 1161 (A.D. 1748). 8°.

Chinese and Tibetan MS.—1. A volume of mystic diagrams and symbols of the Northern Buddhist School, painted in colours. XVIIIth or XIXth cent. Fol.

Hebrew MSS.—1. Sefer Ha-zikkūq, an Index Expurgatorius of Hebrew books compiled by the censor Domenico Irosolomitano in 1596, and later enlarged. XVIIth cent. 8°.

2. A Hebrew translation of the Koran, from the Latin or from the Italian version, printed at Venice in 1547. XVIIth or XVIIIth cent. 4°.

Hindustani MSS.—1. Three poems, in the Dakhani dialect, on the praises and miracles of Muḥammad, viz., (a) Rāḥat i jān, by Ṭufail Muṣṭafā, dated A.H. 1278 (A.D. 1861), (b) Man darpan, dated A.H. 1274, and (c) Man jīvan, by Rauzī, dated A.H. 1274. 8°. Apparently unknown.

2. Chār gulshan, a versified recension, in the Dakhani dialect, by Mir Sharshār, of the "Tales of the Four Dervishes." Composed A.D. 1772 for Muḥammad Najīb al-Dīn Khān Ijāz, grandson of Muḥammad 'Alī Khān, the last ruling Nawab of Arcot. A.H. 1252 (A.D. 1837). 8°. Apparently unknown.

Pali MSS.—1. Ekakkhara-kosa, a vocabulary of monosyllabic Pali words, by Saddhammakitti. Palm-leaf, in Burmese script. XVIIIth or XIXth cent.

2. Pañchikā-pradīpa, a commentary by Rāhula (XVth cent.) upon Moggallāna's Pali grammar. Palm-leaf, in Sinhalese script. A fine MS., not much later than the composition of this important work.

3. Kanda-kumāra-ashtaka, a series of Pali verses on the legend and cult of the god Skanda, with Sinhalese translation, written in the centre of a square formed of 9 palm-leaves, the rest of the space being filled with pictures illustrative of the legends in the poem, and with ornamental designs, skilfully cut with the stylus, and coloured. XVIIIth cent.

Persian MSS.—1. Ḥallāj-nāmāh, a mystical poem by Farīd al-Dīn 'Attār (died A.H. 627) upon the absorption of the soul in the divine essence. A.H. 861 (A.D. 1457). 8°.

2. Zikr al-sair, a history of Benares from the rise of Raja Mansārām to the accession of Raja Mahīpat Nārāyan, A.D. 1737-1781, by Ghulām Ḥusain Khān b. Himmat Khān. XVIIIth cent. 8°.

3. Zubdat al-kawā'if, a history of the Nawabs of Oude to A.H. 1287, A.D. 1870, by Jaigopāl, called Ṣāḳīb. A.D. 1870; autograph. 8°.

4. Ḥālāt i jang i Malakah wa-Sithānah, a metrical account of an insurrection in the districts of Malakah and Sithānah in the North-West Provinces after the Great Mutiny. XVIIth cent. 8°.

5. Dīvān, or poetical works of Mir Kamar al-Dīn Minnat (died A.H. 1208, A.D. 1794). Containing 12 miniatures, including portraits of Muḥammad, the Nawāb Aṣaf al-Daulah of Oude, Warren Hastings, Richard Johnson, the Nawāb Niẓām 'Alī Khān of the Dekkhan, &c. XVIIIth cent. 8°.

6. Khuṭbahs and correspondence of the Wahhābī religious leader Saiyid Aḥmad of Bareli. XIXth cent. 4°.

7. Makhzan i Aḥmadī, a religious treatise by Saiyid Aḥmad of Bareli. XIXth cent. 8°.

Syriac MSS.—1. A volume containing (a) prognostics for the year, based on the appearance of the moon, &c., (b) Pessē da-Sheliḫē, a work on divination from lots. A.D. 1814. 12°.

2. Magic prayers, with illustrations. A.D. 1818. 12°.

Tibetan MSS.—1. Prajñā-pāramitā-saṅchaya-gāthā, religious-philosophic verses of the Northern Buddhist school, forming part of the Kanjur or scriptural Canon of Tibet. XVIIIth cent. (?). Obl. 4°.

2. Thar-pa chhen-poi phyogs-su rgyas-pa 'gyod-tshangs-kyis sdig sbyangs-te sangs-rgyas-su grub-par rnam-par bkod-pa mdo, a sūtra of the Kanjur. With 6 miniatures. Obl. Fol.

3. A commentary on the *kṛit*-chapter of the Kātantra, a standard Sanskrit grammar. Obl. Fol.

Turkish MSS.—1. Annals of the Turkish Empire, A.H. 1000-1070, by Na'imā Efendī (died A.H. 1128). XVIIIth cent. 4°.

2. Annals of the Ottoman Empire, A.H. 1182-1188, by Anvari Efendī (died A.H. 1209). A.H. 1214 (A.D. 1800). 4°.

3. Fath-nāmah, a narrative of the siege and capture of the fortress of Szigeth by Sultān Sulaimān, by 'Alī Muṣṭafā b. Aḥmad (died A.H. 1008). A.H. 1018 (A.D. 1609). 8°.

4. (a) Ottoman official correspondence with the Safavī Shāhs of Persia (XVIth-XVIIth centuries); (b) Vākā'i 'i Bech, a detailed diary of the siege of Vienna by the Turks under Sultān Muḥammad IV. in A.D. 1683, probably part of the contemporary chronicle of Nishānji 'Abdī Pāshā. XVIIIth cent. 8°.

5. Baḥr al-ma'ārif, lives of Turkish poets, by Laṭīfī (died A.H. 990), composed A.H. 953. A.H. 964 (A.D. 1557). 8°.

Robert K. Douglas.

DEPARTMENT OF PRINTS AND DRAWINGS.

I.—*Arrangement and Cataloguing.*

The exhibition of drawings in the public gallery has been withdrawn and replaced by an historical series of choice mezzotints, chiefly from the Cheylesmore collection. A guide to this exhibition, which was opened in June, has been issued.

A series of seventy-eight portraits and historical prints and drawings has been brought together and contributed to the Nelson Centenary Naval Exhibition in the King's Library.

The mezzotints by anonymous and foreign engravers belonging to the Cheylesmore collection have been sorted, identified as far as possible, and arranged in wrappers.

The work of sorting and arranging in wrappers the collection of portraits of English royal personages bequeathed by Lord Cheylesmore has been commenced, and completed so far as concerns the predecessors of Queen Victoria.

The prints of ornament by Michael Le Blond have been re-arranged, with the addition of heraldic plates from the Franks collection, and references to Van der Kellen's catalogue added throughout.

The collection of XVth and XVIth century printed books, illustrated with woodcuts, presented by Mr. William Mitchell, has been provisionally arranged.

The collection of etchings by Rembrandt has been definitively arranged in accordance with the chronological sequence recently adopted, and a catalogue and key to it have been prepared for departmental use.

The collection of etchings and aquatints by Paul and Thomas Sandby has been re-arranged, the recent bequest of Mr. William Sandby being incorporated.

The collection of etchings and lithographs by J. McNeill Whistler has been arranged for mounting, with references to the catalogues of Wedmore and Way.

The Franks collection of shop-bills, &c., has been sorted and arranged, all duplicates being eliminated.

The volumes of drawings in cases 131 and 131*, in the Keeper's study, have been re-arranged and numbered.

One thousand nine hundred and ninety-six prints, one hundred and forty-eight drawings, and thirty-one packs of playing-cards have been incorporated with the collections to which they severally belong.

All books of prints and books of reference recently acquired have been indexed, labelled and placed.

A series of duplicate engravings, in seventy-three frames, has been lent to the committee of the exhibition at Workington.

A series of duplicate etchings, in fifty-nine frames, has been lent to the Corporation of Kingston-on-Thames.

The Keeper's work on "Early Engraving and Engravers in England" has been completed and published.

The preparation of a descriptive catalogue of the collection of Early German and Flemish Woodcuts has been continued.

The preparation of a descriptive catalogue of the collection of English Drawings has been continued and carried down to the end of the alphabet, and a portion of it has been sent to the printer.

The work of inserting references to the Cheylesmore collection in the index to the collection of English Portraits has been continued and completed.

References to the collection of portraits of foreigners resident in England have been written for the index to the collection of English Portraits.

All English portraits recently acquired have been indexed and catalogued.

The preparation of a catalogue of the collection of drawings by Rembrandt, for departmental use, has been commenced.

The transcription for press of the catalogues of English Portraits and English Drawings has been continued.

The preparation of an index to the Banks collection of shop bills, &c., has been commenced.

One hundred and seven duplicates belonging to the Franks collection of Book plates have been stamped as such preparatory to their being returned to the executors.

Three thousand six hundred and nineteen items have been entered in the Register of acquisitions.

Nine thousand one hundred and six prints, drawings, &c., recently acquired, have been impressed with the departmental stamp and references to the Register, and nine hundred and seventy have received the special Reeve and Cheylesmore stamps.

The work of preparing, specially repairing, and mounting a selection from the Cheylesmore collection of mezzotint portraits, additional to that shown in the exhibition gallery has been continued.

Seven hundred and twenty-three drawings and prints have been prepared and mounted on sunk mounts, and three hundred and seventy-two others have been mounted in the ordinary manner.

The total number of students admitted to the Print Room during the year ending 31st December 1905 was 8,614.

411 applications were made for leave to photograph objects in the collection, and 2,509 photographs were taken.

II.—*Additions.*

The total number of prints, drawings, &c., acquired during the year was 3,984, of which the following are the most important:—

ITALIAN SCHOOL.

Drawings.

Aspertini Amico. A sacrificial procession; pen and bistre; in four portions.

Canale, Antonio (Canaletto). Westminster Bridge; pen and bistre, with Indian ink wash. *Presented by H. J. Pfungst, esq., through the National Art Collections Fund.*

Carracci, Annibale. St. Francis receiving the stigmata; red chalk, pen and bistre.

Cornacchini, Agostino. Sculptured ornament, 1723; pen and ink over pencil. *Presented by W. B. Squire, esq. F.S.A.*

Francia, Jacopo. A female saint resembling the St. Margaret in a picture attributed to this artist in the Prado Gallery; red chalk washed with red. On the back St. Apollonia. From the Bernardi collection, Lucca. *Presented by Max Rosenheim, esq., F.S.A., through the National Art Collections Fund.*

Mazzuoli, Francesco (Parmegiano). Nymph and horse; pen, bistre and wash; from the Lawrence collection. A man standing, seen from the back; black chalk retouched with pen and ink; from the Barnard collection. Four heads; red chalk; from the Thane and Esdaile collections. An album containing a collection of fifty-two sketches and studies, chiefly from the Lely collection, afterwards in those of E. Cheney and Capel-Cure.

Pinelli, Bartolommeo. A scene in Rome, 1812; pen and ink and sepia.

Piranesi, Giovanni Battista. View of the Temple of Isis, Pompeii; pen and brush in sepia. View of a street in Pompeii; pen and brush in sepia. View of an ancient arch; black chalk.

Viti, Timoteo. The legend of the Jew who stole and fried the consecrated Host; black chalk. *Presented by Max Rosenheim, esq., F.S.A., through the National Art Collections Fund.*

Zampieri, Domenico (Domenichino). Study of a young man kneeling with his hands on the ground; red chalk; from the Houlditch, Reynolds and Thane collections. *Presented by Hon. Mrs. Oldfield.*

Engravings.

Carracci, Annibale. "La Soucoupe" (Silenus); B. 18. Presented by Max Rosenheim, esq., F.S.A.

Prints arranged to illustrate the works of Masters.

Botticelli, Alessandro. "Primavera"; photogravure.

Melozzo da Forlì. Angel playing the mandola; photogravure. Angel playing the viola; photogravure.

Raphael. Nine plates from frescoes in the Vatican; engraved by O. Ufer, G. Buonafede, A. Poretti, G. Marcucci, G. Carocci, M. Martini and T. di Lorenzo. Adoration of the Magi, by N. Sangiorgi.

Sarto, Andrea del. St. John the Baptist; photogravure.

Titian. Sacred and Profane Love; photogravure. The Assumption; photogravure.

GERMAN SCHOOLS.

Drawings.

Schenau, Johann Eleazar. A family group; watercolours. A mother and four children; watercolours.

Woodcuts.

Anonymous. A judge. St. James the Greater. Military subject, c. 1600, with arms of Bavaria and Lorraine. Presented by Max Rosenheim, esq., F.S.A.

Beham, Hans Sebald. Christ's entry into Jerusalem (Pauli, 707). Presented by Max Rosenheim, esq., F.S.A.

Flötner, Peter (attributed to). Triumphal arch erected for the visit of Charles V. to Nuremberg in 1541; with Latin and German text, printed by C. Egenolph, Frankfort a. M. Presented by Max Rosenheim, esq., F.S.A. Woman and jester, (Pass 27).

Hamer, Steffan. Puzzle cut containing a portrait of Ferdinand I. Presented by Robert Renshaw, esq.

Springinklee, Hans. St. James, St. John, St. Peter, and St. Paul, four of a set of the Apostles; late impressions, from "Das Neue Testament," 1524. Presented by Max Rosenheim, esq., F.S.A.

Stimmer, Tobias. Title border with the four Evangelists, four Doctors of the Church, and the device of Froben of Basel; undescribed. Presented by Max Rosenheim, esq., F.S.A.

Worms, Anton von. Page border, with device of Eucharius Cervicornus. Presented by Max Rosenheim, esq., F.S.A.

Engravings.

Jenichen, Balthasar. Four plates of the History of Hercules and seven plates of the Months; all after Beham. *Presented by Max Rosenheim, esq., F.S.A.*

Solis, Virgilius. Lucretia (B. 64); Jahel (B. 66); and Hester (B. 67). *Presented by Max Rosenheim, esq., F.S.A.*

SCHOOLS OF THE NETHERLANDS.

Drawings.

Anonymous, early XVith cent. The Tale of Troy; design for tapestry; pen and ink.

Cuyp, Aelbert. Dutch landscape; charcoal, pencil and Indian ink; signed. A specially fine example.

Moucheron, Isaak de. Landscape; pen and watercolours.

Poelemburg, Cornelius van. Sketch of bathing nymphs in a landscape; Indian Ink.

Rembrandt. Sketch of a composition of God renewing the covenant with Abraham; red chalk; from the Cosway collection.

Rembrandt (School of). Biblical subject; pen and sepia.

Woodcut.

Leyden, Lucas van. The Crucifixion; on vellum; from a missal.

Engravings.

De Bry, Theodor. Joseph and Potiphar's Wife. Eight plates from armorial shields. *Presented by Max Rosenheim, esq., F.S.A.*

FRENCH SCHOOL.

Drawings.

Gavarni. A man in a red shirt raising his hands above his head; watercolour on brown paper.

Rodin, Auguste. A woman and child, pen and ink and watercolour wash, heightened with white. A man and woman standing together; pen and ink. *Presented by Claude Phillips, esq., through the National Art Collections Fund.*

Troyon, Constant. Cattle moving along a road; pencil, charcoal and pastel.

Etchings.

Lalanne, Maxime. Thirty-eight examples. *Presented by R. Gutekunst, esq.*

Lithographs.

Redon, Odillon. Nine examples. *Presented by Archibald Russell, esq.*

Engravings.

Grateloup, Jean Baptiste. Portrait of Bossuet; after Rigaud; undescribed state. Portrait of Fénélon; second state.

Prints arranged to illustrate the Works of Masters.

Clouet, Portrait of Charles IX.; photogravure.

Collin, Raphael. La Poésie; etching by Gabrielle Poynot from a picture in the Hôtel de Ville, Paris. *Presented by the Prefect of the Seine.*

Greuze, Jean Baptiste. La Prière; by T. L. Atkinson, mezzotint. *Presented by E. E. Leggatt, esq.*

Harpignies, Henri. Le Jardin du Luxembourg; etching by H. Toussaint from a picture in the Hôtel de Ville, Paris. *Presented by the Prefect of the Seine.*

Picard, Georges. La Lutte and Le Réveil; etchings by E. Buland from pictures in the Hôtel de Ville, Paris. *Presented by the Prefect of the Seine.*

Vigée-Lebrun, Marie. Portrait of herself; photogravure. Lady Hamilton as the Persian Sybil; by D. H. Pratt; *presented by the Engraver.*

RUSSIAN SCHOOL.

Etchings.

Egoroff, Evdokine. A collection of sixty-eight proofs of etchings and drypoints of Russian subjects.

ARTISTS OF FOREIGN SCHOOLS WORKING IN ENGLAND.

Drawings.

Mercier, Philippe. Music and dancing in a park; Indian ink.

Ramberg, Johann Heinrich. A lady walking; water-colours.

Etchings.

Ramberg, Johann Heinrich. A Dominican monk watching a country dance; tinted. An Abbot watching a country dance; coloured.

Engraving.

Bartolozzi, Francesco, R.A. Portrait of Mrs. Udney ; after R. Cosway ; stipple ; first state.

ENGLISH SCHOOL.

Drawings.

Aidé, Hamilton, View of the Propylæa from the Parthenon, Athens ; watercolours, 1899. *Presented by the Artist.*

Burton, Sir Frederic William, R.H.A. Life-sized study of a head strongly resembling Mary Ann Evans ("George Eliot") ; watercolours.

Butler, Samuel. Three sketchbooks and three drawings in watercolours and pencil. *Presented by H. Festing Jones, esq.*

Cook, Edward William, R.A. Holby shore, near Feversham ; pencil. Cart shed, Hanworth, near Norwich ; pencil. *Presented by E. E. Leggatt, esq.*

Cotman, John Sell. Fire at the vinegar works on the Wensum at Norwich ; pencil and body colour. *Presented by H. J. Pfungst, esq, through the National Art Collections Fund.*

Cruikshank, Isaac Robert. Portrait of himself ; highly finished in Indian ink. *Presented by E. E. Leggatt, esq.*

Dance-Holland, Sir Nathaniel, R.A. Study of head of Lord Camden, for the engraved portrait.

Glover, John, Sketchbook with Indian ink views of the scenery of the English Lake district, done in 1821 ; purchased by Mr. Cooper from the executors of the artist in Tasmania a few months after his death in 1850. *Presented by D. Elphinstone Cooper, esq.*

Lane, William. Portrait of Alicia Otway, afterwards Mrs. Bale ; crayons.

Lawrence, Sir Thomas, P.R.A. A woman's head ; pencil, black chalk and Indian ink. Bust of a girl ; pencil, black chalk and Indian ink.

Lover, Samuel. Portrait of W. M. Thackeray ; pencil and watercolours ; said to have been retouched by Maclise ; from the collections of Maclise and Lord J. Butler.

Pinwell, George John. Evening ; haymakers returning from the fields ; watercolours. Head of a girl ; pencil. Figures seated on a bank ; pencil and charcoal sketch.

Reynolds, Samuel William. Portrait of Mrs. Lloyd after Sir Joshua Reynolds ; watercolours.

Smith, John Raphael. Portrait of a young lady in a mob-cap; pencil touched with watercolours. A lady seated; black chalk heightened with white; from the Warwick collection.

Stevens, Alfred. Thirty-eight studies, chiefly from groups in early Italian frescoes; pencil and watercolours.

Etchings.

Bone, Muirhead. Somerset House; drypoint; trial proof. Portrait of Mrs. Gutbier; drypoint; fourth state. *Presented by the Artist.* Bookplate of Lincoln College, Oxford; drypoint; two impressions. *Presented by the Rector of Lincoln College.*

Bryden, Robert. Collection of one hundred and twenty-one plates. *Presented by the Artist.*

Robinson, Sir John Charles. Twenty-one plates; views in Dorsetshire, Spain, and Portugal. *Presented by the Artist.*

Whistler James McNeill. Fitzroy Square; impression from a plate drawn on by Whistler but injured before etching and laid aside; the damage was repaired and the plate etched and printed by Frank Short after Whistler's death. *Presented by T. R. Way, esq.*

Lithographs.

Shannon, Charles Hazelwood. The Sower and the Reaper. The Wayfarers. The Bathers. *Presented by the Artist.*

Whistler, James McNeill. The Doctor. Portrait of Dr. Whistler, No. 2. *Presented by Mrs. W. McNeill Whistler.* One hundred and seventeen examples, a valuable and almost unique series; *presented by Thomas Way, esq.*

Woodcuts.

Shannon, Charles Hazelwood. Twelve subjects; executed in chiaroscuro. *Presented by the Artist.*

Engravings.

Bryden, Robert. Portrait of himself; original mezzotint. The Entombment; original mezzotint. *Presented by the Artist.*

Green, Valentine. The Satyr and the Traveller, after Jordaens; mezzotint. *Presented by J. S. Earle, esq.*

Smith, John Raphael. The Sword, Rennes; mezzotint.

Ward, William. Portrait of Monsieur de St. George; after M. Brown; mezzotint; printed in colour and touched by hand.

Prints arranged to illustrate the Works of Masters.

Caldecott, Randolph. The Gardener's Little Daughter ; etching by E. Gaujean.

Constable, John, R.A. The Vale of Dedham, by J. B. Pratt ; mezzotint. Stormy Noon, Hampstead Heath, by Norman Hirst ; mezzotint. The Hay Wain, by J. B. Pratt ; mezzotint. Salisbury Cathedral, by Norman Hirst ; mezzotint. *Presented by E. E. Leggatt, esq.*

Crofts, Ernest, R.A. King Edward VII. distributing South African War Medals ; photogravure.

Goodwin, Albert. Arundle Church, Sussex, by H. Macbeth Raeburn ; etching. *Presented by E. E. Leggatt, esq.*

Gow, Andrew C., R.A. A Musical Story by Chopin, by P. Le Rat ; etching. *Presented by E. E. Leggatt, esq.*

Hook, James Clarke, R.A. Catching a Mermaid ; photogravure. *Presented by E. E. Leggatt, esq.*

Johnston, Andrew. The Land o' the Leal, by J. Dobie ; etching. *Presented by E. E. Leggatt, esq.*

Leighton, Frederick, Lord, P.R.A. Nerissa ; photogravure. *Presented by E. E. Leggatt, esq.*

Mason, George, A.R.A. When the shadows of evening fall, by L. Daultrey ; etching. *Presented by E. E. Leggatt, esq.*

Moore, Albert. Reading Aloud ; photogravure.

Reynolds, Sir Joshua, P.R.A. Euphrosyne ; three-colour process. *Presented by E. E. Leggatt, esq.*

Romney, George. Lady Hamilton as Joan of Arc, by Norman Hirst ; mezzotint. Lady Hamilton in Prayer, by Norman Hirst ; mezzotint. Lady Hamilton ; by E. Stamp ; mezzotint. *Presented by E. E. Leggatt, esq.*

Rossetti, Dante Gabriel. Joli Cœur ; photogravure.

Whistler, James McNeill. The Artist's Mother ; photogravure.

ORIENTAL.

Peacock with tail displayed ; a woodcut in colour, from a painting by the Chinese artist Kujaku-Myôwô : executed by six engravers under the direction of S. Tajima in the course of five months for an exhibition held at Osaka in 1903. Ten impressions only were produced by 318 printings from 100 blocks.

A ferry-boat ; Indian ink drawing by the Japanese artist Hokusai.

Ten Buddhist painted rolls from Thibet.

PORTRAITS.

Foreign.

Hédouin, Edmond ; etching by E. Boilvin, from a picture by A. Leleux at Versailles. *Presented by M. Brajeux.*

Louise, Queen of Prussia ; after G. Richter ; photogravure.

English.

Elizabeth, Queen ; the rare contemporary engraving by J. Rutlinger.

Elizabeth, Queen of Bohemia, on horseback, Heidelberg in the background ; anonymous.

Jackson, William, of Exeter, after J. Downman ; mezzotint.

Jebb, Sir Richard Claverhouse, D.C.L., M.P, after Sir G. Reid ; photogravure. *Presented by Professor G. H. Darwin, F.R.S.*

Linley, Eliza and Mary, after Gainsborough ; by E. Gulland ; mezzotint. *Presented by E. E. Leggatt, esq.*

Pearoth, William Jennens, after Hoppner ; by S. W. Reynolds ; mezzotint.

St. Albans, Francis Bacon, Viscount ; proof of the engraving by Jeens published in Spedding's edition of Bacon's Works, 1868. *Presented by Hon. Mrs. Oldfield.*

Turner, Joseph Mallord William, R.A. ; after J. Gilbert.

Ward, Mrs. Townley after Romney ; by H. S. Bridgewater ; mezzotint. *Presented by E. E. Leggatt, esq.*

Warwick, Henrietta, Countess of, after Romney ; by H. S. Bridgewater ; mezzotint. *Presented by E. E. Leggatt esq.*

SETS AND COLLECTIONS.

Five hundred and forty-eight photographs of portrait drawings by Clouet and other sixteenth century artists in the Bibliothèque Nationale, the Louvre, and the Musée Condé, Chantilly.

One hundred and thirty-two photogravures from pictures in the Imperial Gallery at Vienna.

Five hundred and thirteen proofs of woodcuts after Sir John Gilbert, J. D. Watson, Sir John Tenniel, and J. G. Pinwell, executed for various publications by the brothers Dalziel.

Fifty-nine original lithographs by G. Clausen, A.R.A., H. Moore, R.A., G. F. Watts, R.A., R.W.; Macbeth, R.A., and other modern English artists, most of which were included in Messrs. Dunthorne's exhibition in 1895. *Presented by Frederick Goulding, esq.*

Twenty-three plates from A. F. Ammann's "Geschichte der Familie von Zürich," 1904. *Presented by Herr A. F. Ammann.*

Three hundred and ninety-five platinotype photographs of ancient and interesting buildings and monuments in various parts of the United Kingdom; in continuation of the National Survey and Record. *Presented by the Secretary on behalf of the Contributors to the Survey and Record.*

BOOKS OF PRINTS.

Baudelaire, Charles. *Les Fleurs du Mal*, 1891; with nine photogravures from drawings by Odillon Redon. *Presented by Archibald Russell, esq.*

Bock, T. de. *Jacob Maris*; with ninety photogravures, 1904

Brunfels, Otho. *Biblich Bettbüchlein*; Strassburg, 1531; with title-page and twelve borders by Hans Weiditz.

Cust, Lionel, M.V.O. *The Bridgewater Gallery*; one hundred and twenty photogravures from paintings at Bridgewater House; with descriptive and historical text; 1903.

Eybe, Albrecht von. *Spiegel der Sitten*; Augsburg, 1511; with woodcut portrait of the author by Hans Schäufolein.

Hutten, Ulrich von. *Super interfectione propinqui sui Joannis Hutteni Equ. Deploratio*; Mainz, 1519; with a woodcut by Hans Weiditz.

Josz, Virgile. *Antoine Watteau*, 1905.

Manet, Edouard. *Trente Eaux-fortes Originales*, with a portrait of Manet; Paris, 1905. *Presented by W. B. Paterson, esq.*

Nolhac, Pierre de. *J. M. Nettiér, Peintre de la Cour de Louis xv.*, 1905.

Robaut, A. *L'Œuvre de Corot*, vols. I. and II.; 1905.

Tissot, Jacques Joseph. *La Sainte Bible (ancient Testament)*; 1904.

Ward, Humphrey, and W. Roberts. *George Romney; a biographical and critical Essay, with a catalogue Raisonné of his Works*, 2 vols. 1904.

Williamson, J. C. *History of Portrait Miniatures*, 2 vols. 1904.

Zoller, Haug. *Spyegel der Blinden*, Augsburg, 1522; with frontispiece by H. Burgkmair.

Canon Sacratissime Misse, Landshut, 1520; with woodcut title-border, dated 1519.

Das aunder teyl des alten Testaments, Strassburg, 1524; with twenty-three woodcuts by Hans Weiditz.

Das alte Testament deutsch, Basel, 1523; with four woodcuts by Hans Holbein, many others by inferior artists, and title-page by Urse Graf.

Zeichnungen Albrecht Dürers in der Albertina zu Wien, 1905.

Pictures by Sir Joshua Reynolds at Althorpe House; eleven reproductions in colours, with preface by Sir Walter Armstrong; in a portfolio.

The Birth and Triumph of Cupid; twenty-four plates engraved by P. W. Tomkins from papers cut by Lady Dashwood, 1795.

Five proofs on vellum of woodcuts published by the Kelm-scott press. *Presented by Mrs. Procter.*

Die Kunsthistorische Ausstellung zu Düsseldorf, 1904; with ninety plates.

A Selection from the Collection of Drawings by the Old Masters, formed by C. Fairfax Murray; privately printed, 1904.

BOOKS OF REFERENCE.

Berenson, B. *The Drawings of Florentine Painters*, 2 vols., fol. 1903.

Leslie, C. R. *Memoirs of the Life of John Constable*, 2nd ed. 1845.

Rooses, Max. *Rubens, sa Vie et ses Œuvres.*

Sidney Colvin.

DEPARTMENT OF EGYPTIAN AND ASSYRIAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, &c.*

EGYPTIAN ANTIQUITIES :—

The general re-arrangement of the Egyptian Collection has been continued, and the greater number of the important objects acquired during the year have been incorporated and exhibited.

The remainder of the sepulchral stelæ of the XIIth dynasty, which were formerly exhibited in the Egyptian Vestibule, have been built into bays in the Northern Egyptian Gallery, and labelled.

The collections in two standard-cases in the Third and Fourth Egyptian Rooms have been re-labelled and re-arranged.

The re-arrangement of the Egyptian Galleries has been continued, and the casing, repairing, labelling, and re-labelling of the stelæ have been practically completed. Stone plinths have been built into several bays for stelæ and other objects, and a number of slate shelves have been fitted.

The south wall from the chapel of the pyramid of one of the great Queens of the Island of Meroë, which was presented by the Sûdân Government in 1905, has been rebuilt on a stone plinth, in a bay on the west side of the Southern Egyptian Gallery.

Ten granite plinths and pedestals have been made, and statues have been fitted and mounted into them; one hundred and forty-five alabaster plinths have been worked and polished, and bronze figures of gods and sacred animals have been mounted upon them; fourteen oak pedestals and sixty satin-wood pedestals have been made, and figures and other objects have been mounted upon them.

Seven hundred and eighty-five scarabs have been mounted on cloth-covered plinths, and numbers have been attached to them. Two hundred and sixty-eight ostraka have been boxed.

Five large statues have been repaired; sixty-six ushabtiu figures have been cleaned and repaired; one coffin has been repaired and put together; seventeen stelæ have been repaired, and fifty-five stelæ have been provided with new frames.

The wall paintings from the tombs of Thebes, which were formerly exhibited in the Egyptian Gallery, have been mounted in two new standard cases in the Third Egyptian Room. An additional shelf has been inserted in the wall-cases of the Third Egyptian Room, and the gods and sacred animals have been grouped upon it.

Eleven hundred and thirteen descriptive labels have been written and painted; four thousand and seventy numbers have been painted on objects.

One hundred and forty objects have been registered. The transcribing of hieratic papyri has been continued, and eight sheets have been printed off. Descriptions of forty-six plates of Coptic ostraka and stelæ have been written, and read in proof.

Three thousand six hundred and thirty-six index slips, and five hundred and ninety-seven identification slips, have been written. A list of objects presented has been made.

ASSYRIAN ANTIQUITIES:—

The general re-arrangement of the Babylonian and Assyrian collections (the unexhibited section) has been continued. Two thousand six hundred and twenty-five tablets have been re-numbered, and the necessary alterations have been made in the registers and case-books. The 1905 collections have been numbered and arranged; one thousand five hundred and fifty-four tablets have been boxed; five thousand seven hundred and seventy-three tablets have been numbered.

Twenty-four descriptive labels have been written and painted; one limestone slab has been repaired and mounted; twenty-three case-tablets have been opened; seven hundred and ninety-three tablets have been repaired and cleaned; one hundred and thirty-one fragments have been rejoined.

About three thousand tablets have been registered. Copies of forty-six inscribed cones, bricks, &c., have been written.

Fifty plates of text have been copied for publication.

The preparation of a complete edition of the great trilingual inscription of Darius at Behistûn is in progress; and ten sheets have been printed off.

The entries in the case-books have been kept up to date.

Publications.—Part XXI. of “Cuneiform Texts from Babylonian Tablets, &c., in the British Museum” has been compiled and issued. “Greek and Coptic Texts of the Christian Period in the British Museum,” dealing with the Christian inscriptions of Ancient Egypt, with one hundred plates, has been printed and issued.

Students.—About 2,750 visits have been made to the Department by students and others; and 2,987 objects have been issued for their use.

Sixty-five parties, comprising about eight hundred and seventy persons, have been personally conducted through the Department by members of the staff. The parties came from

institutions, educational and social clubs, schools, &c., at South Kensington, Islington, Hornsey, Kensal Green, Plumstead, Paddington, Chelsea, Bow, Woolwich, Teddington, Wandsworth, Walthamstow, Westbourne Park, Bayswater, Stoke Newington, &c. Parties from the Polytechnic, Regent Street, the Church Army Training Home, and the University Extension Association, also visited the Department.

II.—*Acquisitions.*

EGYPTIAN :—

- i. A collection of miscellaneous antiquities from Beni-Hasan :—
 1. A massive, painted wooden coffin, made for one Sebek-hetep, who probably flourished about B.C. 2600.
On the inside are inscribed several extracts from a very ancient Recension of the Book of the Dead, and above these are pictures of funeral offerings.
 2. An inner coffin, made for the same Sebek-hetep.
 3. A wooden head-rest, or pillow.
 4. A basket and a piece of rope.
 5. Wooden bowl.
 6. Model of a large rowing boat, with figures of the crew, which consisted of ten men.
 7. Model of a sailing boat, with a canopy, on which is painted the cognizance of the owner, whose figure is placed beneath.
 8. Model of a granary, with divisions for holding samples of different kinds of grain, and figures of the men in charge.
 9. Models of figures engaged in performing sacrificial ceremonies, and preparing offerings for sacrifice.
 10. Bow, with seven arrows, some of which are tipped with flint.
 11. A pair of sandals.
 12. Two terra-cotta figures,
 13. Eight red-ware vases and one stand.
 14. A large shell.
 15. Mummy of a child in a *cartonnage* case.
 16. A gilded *cartonnage* mask.

All the above objects were found at Beni-Hasan in Upper Egypt, and belong to the period of the XIIIth dynasty, about B.C. 2400.

- ii.
1. Bronze pendant from a *menat*, or object which was carried by priestesses into the temples, and used by them in the performance of certain ceremonies connected with the worship of Osiris. This example is ornamented with an ægis of Hathor, a naos containing two figures, &c. XXth dynasty.
 2. Wooden stele inscribed for Ptah-ari-tās, the son of Sa-Bastet-ari-tās. XXth dynasty.
 3. Black basalt statue of Uah-ab-Rā-mer-Net, a priest of Neith, holding before him a shrine containing a figure of the goddess; the statue was made at the expense of the son of the deceased, who wished to "make his father's name to flourish." XXVIth dynasty.
 4. Fine, large, limestone sepulchral stele of an official called Paai. Late XXVIth dynasty.
- iii.
1. Five large steatite scarabs, belonging to the period which lies between B.C. 3300 and B.C. 2400.
 2. Bronze statuesque figure of a man, wearing a heavy wig. From Kūrna. VIth dynasty.
 3. Chisel, in fine bronze. Early period.
 4. Axe-head, in fine bronze. Early period.
 5. Two bronze objects which were probably used in the construction of a temple.
 6. Blue porcelain cylinder, inscribed with the name of Thothmes IV., B.C. 1500.
 7. Blue porcelain plaque, for inlaying in the cover of a toilet box. XVIIIth dynasty.
 8. Three calcareous stone slabs inscribed in hieratic, with drafts of extracts from literary compositions. XVIIIth or XIXth dynasty.
 9. Bronze heel of a staff or sceptre.
 10. Bronze case for the mummy of an ichneumen.
 11. A set of four *ushabtiu* boxes, which were made for a priestess of Amen called Hentmeht, about B.C. 1000. Each box contains ten figures, painted in bright colours, and inscribed. These boxes were placed in the tomb of the deceased, one in the middle of each wall. This is the only complete set of such boxes in the Museum.
 12. A unique set of four inscribed bricks, of crude mud, on which are mounted figures and amulets, intended to protect the deceased in the tomb from the enemies who might threaten him (or her) from the north, south, east, or west. The manner in which these

bricks were used is described in the Papyrus of Nu, in the British Museum, Chapter CXXXVII. Each brick is inscribed with a magical text in hieratic. About B.C. 1000.

13. Painted hawk-headed coffin, containing the mummy of a hawk. Late Period.
 14. Similar coffin, inscribed.
 15. Basalt figure of the priest Mekau. B.C. 650.
 16. Basalt figure of a priest of Amen. B.C. 650.
 17. Basalt figure of a priest holding a figure of Osiris. Late Period.
 18. Five *ushabtiu* figures of Tchanahabu, and one of a priestess of Amen. B.C. 550.
 19. Wooden wool-dresser, with iron teeth.
 20. An important collection of seventeen stelæ, inscribed in Greek or Coptic, from Esna in Upper Egypt. They illustrate Coptic funerary art between A.D. 500 and 900.
- iv.
1. An alabaster sub-plinth of a statue inscribed with the prenomen and nomen of Rameses II.; the statue belonging to this plinth was purchased in 1903.
 2. Bronze figure of Harpocrates wearing the crown and plumes of Amen; the disk is inlaid with silver, and the feather work with red composition. The eyes, uræus, and nails of the fingers and toes are inlaid with gold. On the plinth is an inscription stating that this figure was dedicated to Queen Ankhnesneferab-Rā, daughter of Psammetichus II., and wife of Amasis II., by Pef-āa-Bast, an official in the temple of Amen-Rā, about B.C. 600. The fine basalt sarcophagus of this Queen was acquired by the Trustees of the British Museum early in the last century.
 3. Bronze censer, in the form of a lotus column. On the handle is a figure of the king, or priest, who dedicated the object to the temple. A fine specimen. About B.C. 660.
 4. Bronze figure of the goddess Sekhet, on a plinth; behind her is the model of a sepulchral coffer, also in bronze. A very rare object. About B.C. 600.
 5. Bronze ring inscribed with the name of Amen-hetep IV., who reigned about B.C. 1450.
 6. Bronze figure of a Babylonian, or Assyrian, plague-god, found in Egypt.

7. Two seated figures, in fine limestone, of Khâ-em-Uast, a high priestly official of Menthu-Râ, and his wife, a priestess of Anit. Fine work. About B.C. 1550.
 8. Red granite head of the goddess Neith, of Saïs. About B.C. 500.
 9. Fine white stone scarab, with the figure of a king slaying his foes cut on the base. B.C. 500.
 10. A Greek inscription of the Coptic Period, from Upper Egypt. About A.D. 500.
 11. Four Coptic sepulchral stelæ of the VIth to VIIIth centuries.
- v. A collection of two hundred and twenty-six scarabs and plaques in steatite, porcelain, amethyst, carnelian, schist, &c., which includes examples of all periods from the VIth dynasty, about B.C. 3500 to about B.C. 650, when scarabs ceased to be made in Egypt. About sixty-six are inscribed with royal names, and those bearing private names are of very fine workmanship.
- vi. Three small sepulchral stelæ inscribed with prayers for funeral offerings. The oldest, which is of wood, belongs to the XXIIInd dynasty, about B.C. 1000.

ASSYRIAN:—

- i. A collection of about six hundred and thirteen tablets and fragments of tablets, belonging chiefly to the period of the First Dynasty of Babylon, about B.C. 2400. In it are included several "case-tablets," bearing interesting seal impressions; a large number of contracts written in the Semitic dialect of Babylonia, which was current when they were drawn up; two tablets, written in the Sumerian language, and containing copies of religious compositions; a few letters of the reign of Khammurabi (B.C. 2150); several lists of revenues of various kinds, which were employed in drawing up the large summaries; and tablets belonging to the cadastral survey of Lower Babylonia.
- ii. A collection of sixty-six Babylonian tablets, chiefly contracts, the greater number of which belong to the Persian Period, about B.C. 550.
- iii. A collection of hard limestone bowls and other vessels, from an ancient site in Assyria.

iv. A collection of thirty seal cylinders in agate, chalcedony, basalt, and hæmatite, of various periods between B.C. 2000 and the Persian Period, about B.C. 400. Among them may be specially mentioned :—

1. Early Babylonian seal, of green schist, engraved with a mythological scene representing the Sun-god slaying an enemy with a mace, and another god, or hero, slaying a foe. (No. 102,044.)
2. Babylonian seal of black marble, with scene representing a hero in conflict with two lions and two ibexes. (No. 101,963.)
3. Black marble cylinder of Sin-imaguranni, the son of Sin-ishmeani. (No. 101,965.)
4. Hæmatite cylinder of Ibni-Martu, the son of Shumi-Ishtar. (No. 102,047.)
5. Two hæmatite cylinder-seals engraved with scenes connected with the worship of Shamash, the Sun-god, and his wife Aa. (Nos. 102,045 and 102,046.)
6. Chalcedony seal, inscribed with a spirited design, in which two gods, or heroes, are seen in conflict with winged horses having dragons' tails. (No. 101,966.)
7. Three lapis-lazuli cylinder-seals inscribed with scenes connected with the worship of Sin. (Nos. 102,058, 102,065, and 102,067.)
8. Hæmatite cylinder-seal of Idin-Ishtar, the son of Sabala, the servant of Ninshuanna. (No. 102,061.)
9. Hæmatite cylinder-seal dedicated to Adad. (No. 102,068.)
10. Hæmatite cylinder-seal dedicated to Shamash and Aa. (No. 103,059.)
11. Chalcedony cylinder-seal of the Persian Period. Scene: Marduk in conflict with Tiamat. (No. 102,056.)
12. Chalcedony cylinder-seal of the Persian Period. Scene: Centaur slaying a winged monster with bow and arrow. (No. 102,064.)
13. Chalcedony cylinder of the Persian Period. Scene: A winged god in conflict with a bull. (No. 102,069.)
14. Chalcedony cylinder of the Persian Period. Scene: A representation of the ceremony of fertilizing the palm-tree. (No. 102,062.)

- 15 Chalcedony cylinder of the Persian Period. Scene; A god (Auramazda?) standing beneath the winged disk from which shoot forth two thunderbolts, which the god grasps, one in each hand. On each side of him are winged and eagle-headed attendants bearing offerings. Very fine workmanship. B.C. 450. (No. 102,060.)

III.—Presents.

- i. The south wall of the chapel of the largest and most important pyramid of the Northern Group of the Pyramids of the Island of Meroë, in the Sûdân. This pyramid was built for one of the great Queens of Meroë, who bore the title of "Candace," probably during the first or second century of the Christian Era, and its chapel and fore-courts and pro-pylons were sculptured with elaborate reliefs, representing the queen's funeral procession, the offerings made in the tomb, &c. The queen's name is nowhere found on the walls in hieroglyphics, and the cartouches, which are sculptured in high relief, and in a very prominent place, have not been filled up. At one end of the wall the queen is seen seated by her consort, whose name also is unknown. She wears a fringed garment, with ropes and tassels, and on her arms are elaborately ornamented armlets. The reliefs on the other portion of the wall represent a table of offerings, the Hall of Osiris, the Judgment Scene, rows of divine and other figures making offerings and pouring out libations before the queen, who is also seen leading four bulls for sacrifice. The reliefs on the wall are typical of the best class of funereal sculpture in the island of Meroë, of which, before the arrival of this object, there was no example in the National Collection.

Presented by the Government of the Sûdân, 1905.

- ii. A. A valuable collection of miscellaneous antiquities from Dêr-al-Baharî, among which may be mentioned:—
1. Three black granite portrait statues of Usertsen III. XIIth dynasty.
 2. Sandstone tablet of Pa-ser.
 3. Colossal statue of Amen-hetep I. as Osiris. XVIIIth dynasty.
 4. Tablet with reliefs of Amen-hetep I. and Menthu-hetep I. XVIIIth dynasty.

5. Fine alabaster head of a cow. From an image of the cow-goddess Hathor. XVIIIth dynasty.
6. Part of a limestone figure of a girl. XVIIIth dynasty.
7. Tables, with relief of Queen Hâtshepset. XVIIIth dynasty.
8. Granite stele of Het-aaï. XXth dynasty.
9. Inscription containing a prayer for the priestesses of Hathor.
10. Model of a flight of altar steps. XVIIIth dynasty.
11. Ostrakon and graffito. XVIIIth dynasty.
12. Cone of Sen-Mut, the architect. XVIIIth dynasty.
13. Wooden mummy ticket for Ameni. XIth dynasty.
14. Model coffin, with a wax figure of the deceased. XIth dynasty.
15. Bead collar. XIth dynasty.
16. Horn bangle. XIth dynasty.
17. Lotus-flower capital. XIth dynasty.
18. Part of an alabaster vase stand. XIth dynasty.
19. Mummy of Kaut. XIth dynasty.
20. Mummy cloth of a priestess. XIth dynasty.
21. Figure of a slave carrying a basket. XIth dynasty.
- 22, 23. Pair of leather sandals. XIth dynasty.
- 24-26. Two wooden mallets and a hoe.
27. Flint chisel.
- 28-43. Sixteen hieratic ostraka.
44. Demotic ostrakon.
- 45-50. Six Coptic ostraka.
51. Fragments of vases, wine-jars, bowl, tile, &c.
52. Blue glazed cow's head, three apes, and a figure of Hâpi.
53. A group of plaques, scarabs, eyes, &c., inscribed with the name of Thothmes III., &c.
54. A collection of red and blue beads.
55. Unglazed scarab.
56. Blue-glazed ball.
57. Votive plaque.

- ii. B. 1. Plaque of Amen-hetep I. B.C. 1500.
 2. Broken ring of Amen-hetep III. B.C. 1450.
 3. Blue glazed head of Hathor.
 4. Peg with human head.
 5. Blue glazed rosette.
 6. Blue glazed amulet.
 7. Cartouche plaque.
 8. Fragment of papyrus.
 9. Bronze spatula.
 10, 11. Two iron knives.
 12. Iron forceps.
 13. Ivory comb.
 14. Fragments of a blue and white cup.
 Nos. 9-14 are from Oxyrhynchus.
- iii. A collection of miscellaneous antiquities from Sarâbit al-Khâdem and Wâdî Maghâra, in the Peninsula of Sinai :—
1. Copper chisel.
 2. Fragments of eleven bangles in blue faïence.
 3. Fragments of eight vase-stands in blue faïence.
 4. Fragments of two boomerangs inscribed with the names of Seti I.
 5. Handle of a sistrum.
 6. Fragments of four Hathor plaques.
 7. Blue glazed plaque, with cat.
 8. Seventeen fragments of the *menat* amulet.
 9. Eight fragments of blue faïence vases.
 10. Sixteen fragments of blue glazed ware.
 11. Seven pieces of vases, with coloured decoration in relief.
 12. Fragments of turquoise matrix.
 13. Thirteen stone mining tools.
 14. Fragment of an iron stamp.
 15. Figure of Sen-usert.
 16. Small stone obelisk.
 17. Block inscribed with the name Sa-nekht.
 18. Figure of Seneferu.
 19. Stone sphinx.
 20. Inscribed stele, and a group of stone objects, with a photograph of the same.
 21. Part of a hawk in stone.
 22. Portion of a statue of Rameses III.
- Presented by the Egypt Exploration Fund.*

- iv. 1. A collection of twenty-one ostraka inscribed chiefly in Greek.
 2. Wooden fastening of a box inscribed with the name of Seti I. Mer-en-Ptah. B.C. 1310.
 3. Wooden fastening of a box inscribed with the name of Amen-hetep III. B.C. 1450.
 4. Wooden fastening of a box.
 5. Scarab inscribed with the prenomen of a king of the VIth dynasty.
 6. Three scarabs from the Sûdân.
Presented by Sir John Evans, K.C.B., F.R.S.
- v. 1. A bronze plate from the door of a temple at Thebes, inscribed with the name of Amen-hetep III. B.C. 1450.
 2. A collection of sixty-three vases, bowls, pots, &c., in earthenware, of various periods, from Kom Al-Akhmar and Hissâya.
Presented by F. G. Hilton Price, Esq., F.S.A.
- vi. A handsome rectangular limestone slab from the door of the tomb of Pari, a priest of Ptah, and overseer of the estates of the god Amen-Râ, of Thebes. The deceased flourished in the reign of Amen-hetep III., about B.C. 1450, and an interesting throne name of this king is inscribed on the slab.
Presented by Robert Mond, Esq.
- vii. Portion of a flint handle of a sistrum, or weapon (?), inscribed, "Pacifier of the two lands," *i.e.*, a title of one of the kings of Egypt.
Presented by H. W. Seton-Karr, Esq.
- viii. 1. Two glass bottles, ornamented with human faces in relief. Græco-Roman Period. From Syria.
 2. A large round glass bottle, with a long neck. From Syria.
 3. A flat glass bottle.
 4. Fluted glass vase.
 5-7. Three small glass bottles.
 8. Glass pendant.
 9, 10. Two glass weights.
 11. Gold sepulchral amulet, inscribed.
 12-19. Eight terra-cotta plaques. From Palmyra.
Presented by Mrs. H. H. Way.

- ix. Portions of a large and important bronze figure of an official of the XXIIInd dynasty, about B.C. 1000.

Presented by James Danford Baldry, Esq.

- x. A collection of flints from Sinjar, and from the neighbourhood Dêr Az-Zûr, and other places in the Mesopotamian Desert.

Presented by R. C. Thompson, Esq., M.A.

- xi. A collection of early flint implements from the surface of the desert near Thebes, in Upper Egypt.

Presented by H. R. Hall, Esq., M.A.

- xii. Steatite scarab inscribed with the prenomen of Rameses II., enclosed within annules. Found at Halfa.

Steatite scarab inscribed with the figures of a beetle and uræi. Found at Bagrâwiya in the Sûdân.

Presented by E. A. Wallis Budge, Litt.D.

- xiii. 1. Green glazed porcelain ring with the prenomen of Rameses II. on the bezel.
 2. Green glazed porcelain ring, with crowned uræus on the bezel.
 3. Blue glazed porcelain ring, with an *utchat* on the bezel.

Presented by the Hon. L. Walter Rothschild, M.P.

E. A. Wallis Budge.

DEPARTMENT OF GREEK AND ROMAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, &c.*

The two columns, which stood at the entrance of the so-called Treasury of Atreus at Mycenæ, have been restored from the original portions presented to the Museum, with the aid of plaster casts of fragments of the shafts and capitals existing in other collections. Two marble bases have been prepared for the columns, and alterations have been made in the arrangement of the Archaic Room to allow of their suitable exhibition. A relief has been fixed to the wall of the Third Græco-Roman Room, and a stele placed in the Phigaleian Room. Several plaster fragments have been joined to the Metopes and Frieze of the Parthenon.

In the Etruscan Saloon, Cases 26-37, 54-63, 88-98, and 126-135 have been cleared of their contents and cut back.

Four statues, 2 heads, 4 reliefs, 1 statuette, 2 inscriptions, and 5 miscellaneous pieces of sculpture have been mounted on marble or stone; 119 bronzes, 8 gems, 8 silver rings, and 6 terra-cottas mounted on wooden blocks; 9 frescoes and 2 mosaics framed; and 8 frames containing frescoes fixed on the walls of the passage leading to the Gold Ornament Room. Four blocks have been made for gems, and three pedestals for the Fourth Vase Room.

73 vases, 73 terra-cottas, 89 bronzes, 7 lamps, and 40 miscellaneous objects have been cleaned and repaired.

449 labels have been written, 636 objects numbered, and 280 objects registered.

The Catalogue of Roman Pottery and the Catalogue of Rings have been made ready for the press. Progress has been made with the Catalogue of Vases (Vol. I.), and with revised editions of the Catalogue of Gems, the Guide to the Sculptures of the Parthenon, and the General Guide to the Department.

The number of visits to the Students' Room for purposes of research has been 574: 1,000 other visits to the Staff for purposes of enquiry, and 2,985 attendances of students in the Sculpture Galleries have been entered.

Numerous parties of students of architecture and other subjects have visited the Department for lectures and demonstrations.

II.—*Acquisitions.**By Purchase.*I.—*Objects in Gold.*

1. Bandeau, with a small loop at each end and a clasp at the centre in the form of a figure-of-eight knot, which encloses a palmette. The ornamented parts at the centre and each end are encrusted with minute granulated work.

2. A series of tiny ornaments in stamped gold foil, pierced for attachment. The ornaments are of three types: (1) Victory alighting on the ground; (2) Nude Bacchante with her head thrown back and a slain kid in her right hand; (3) Dancing-girl.

3. Necklace, consisting of a string of circular studded beads and a lunate pendant, set with a garnet and a plasma.

4. Two pairs of earrings in the form of a small figure of Eros, who wears across his breast a vine-branch with grapes. Above is a garnet set in a disc. One pair has below a pendant in the form of a Panathenaic amphora.

3, 4 are from a tomb near Damascus in Syria.

5. Diadem, stamped with patterns in relief. In the centre are the capital and base of an Ionic column, of which the shaft was probably formed by an inlaid stone, now lost. On either side is seated a winged Victory, and beyond her is a series of groups composed of a winged and horned lion on either side of a winged female figure, whose legs terminate in spirals of which she holds the ends. A similar type of composite figure may be seen in the Museum on the capital of a column from Salamis in Cyprus; see *Catalogue of Sculpture*, II., No. 1510, pl. XXVII.

6. Ring, with engraved design of a woman seated on the stern of a ship, by the side of which a dolphin is plunging; this group is almost identical with the type of certain coins of Histiaea (see *Cat. Phitiades*, pl. iii., No. 484).

II.—*Silver.*

1. Bangle of six coils which terminate in the heads of snakes. The central coil is inscribed ΚΛΗΤΙΟΣ, Κλήτιος. From Vounitza in Acarnania.

III.—*Bronze.*

1. Archaic statuette of half-crouching Seilenos. From Civit  Castellana. See *Tyszkiewicz Sale Catalogue*, 1898, pl. XI., No. 124; *Burlington Fine Arts Club*, 1904, p. 45, No. 34, pl. LI.

2. Statuette of a Seilenos, dancing with arms extended. First part of the 5th century B.C.

3. Statuette of Harpokrates, holding his right forefinger to his mouth and having an asp coiled round his left arm. From Egypt. Work of the Ptolemaic period. *Burlington Fine Arts Club*, 1904, p. 36, No. 2, pl. XLII.

4. Statuette of a fisherman, seated on a rock with a basket on his left arm. From Egypt. *Burlington Fine Arts Club*, 1904, p. 44, No. 31, pl. LI.

5. Mirror-handle, with figure of Eros seated between two tree-trunks. Perhaps from Campania. *Burlington Fine Arts Club*, 1904, p. 53, No. 62, pl. LVII.

6. Attachment of a girdle decorated with incised palmettes. *Burlington Fine Arts Club*, 1904, p. 60, No. 94, pl. LXV.

7. Handle of vase terminating in busts of Asklepios and Hygieia. From Egypt. *Burlington Fine Arts Club*, 1904, p. 63, No. 103, pl. LXVIII.

8. Statuette of a Satyr, on an Ionic capital; has formed part of a lamp of which the handle terminates in a panther's head. Formerly in the collection of Prince Ibrahim. *Burlington Fine Arts Club*, 1904, p. 48, No. 42, pl. LI.

9. Archaic statuette of the so-called "Apollo" type. It is of minute size and careful workmanship. From Trapezia in Arcadia.

10. Archaic statuette of a warrior, wearing cuirass, greaves, and a helmet with tall spikes. The figure, which is clumsy and ill-proportioned, is an example of an early art, native to Sardinia. See Perrot et Chipiez, *Histoire de l'Art*, vol. IV., pp. 64 f.

11. Statuette of the Gaulish Jupiter, wearing long-sleeved tunic, trousers, and brogues. Gallo-Roman art.

12. Left leg of a statuette, broken at the knee. Good Greek work of the 4th century B.C.

13. Archaic figure of a horse in very rude style.

14. Similar figure, fastened to a plate, of which the under side is engraved with a design, which could be used as a stamp. It represents two men resting their hands on spears; their bodies are joined. From near Phigaleia in Arcadia.

15. Statuette of a bearded god standing on two lions. He wears a high headdress, decorated with animals in relief. Perhaps Herakles Sandan. From Elis.

16. Pair of hands with the fingers spread; the palms are joined by a hinge and the wrists socketed to receive wooden handles.

17. Lamp with two nozzles. The filling-hole has a cover decorated with a rosette. From Tripolitza in Arcadia.

18. Model of a throne with a high back. The legs are decorated with rosettes, volutes, and palmettes.

19. Bucket (*situla*) with a ribbed handle; inscribed in Etruscan **ANIOYM**, *Suthina*.

20. Bust of Artemis, intended for attachment to some object; her eyes are inlaid with silver.

21. Ticket of an Athenian juryman, inscribed **Ε ΦΙΛΟΧΑΡ**
 ε Φιλοχάρ[ης] Αχα[ρνεύς]. **ΑΧΑ**

22. Three fibulæ; one Hungarian (?) of about 200 A.D., the others Gaulish of the first century A.D.

23. Two weights of Olbia on the Black Sea, inscribed
ΟΛΒΙΟ
ΟΛΒΙΟ and **ΘΕΥΚΛΕ** . Mavrogordato Collection.
ΟΥΣΚΛΕ
ΑΝΔΡΟ

IV.—*Engraved Gems.*

1. Sard intaglio with fine design of a nude statue of Apollo, who stands on a pedestal with a lyre in his left hand and a plectrum in his right.

2. Banded sard scaraboid, with intaglio design: a woman dressed in a long tunic, holding flowers.

3. Plasma scaraboid, with intaglio design: head of a bearded man in a Phrygian cap. The engraving was not finished.

4. Four hæmatite gems of the Mycenæan period. From a tomb at Sphiktia near Mycenæ.

5. Plasma scaraboid, with intaglio design: Omphale with lion's skin and club of Herakles.

6. Glass scaraboid of pale green colour with intaglio design: Asiatic Artemis with a lion on either side.

7. Lentoid carnelian, with intaglio design: bull licking his hind foot.

8. Carnelian scaraboid, with design in relief of a crouching lion. The form of this gem is rare.

9. Rock crystal scaraboid, with intaglio design of a standing wild goat.

10. Carnelian in modern gold setting, with intaglio design: Odysseus, bound to the mast of his ship, passing the Sirens, who are on a cliff above him.

11. Sard intaglio, set in a modern gold ring, with design: head of young Dionysos within a wreath.

V.—*Marble, &c.*

1. Head of a youth from an anthropoid sarcophagus. From Alexandria. Capel Cure Collection.

2. Head of a youth in high relief; from a sepulchral monument. Fine Attic work of the 4th century B.C.

3. Fragment of a stele with a design of three sepulchral vases, supported by acanthus plants and lion-gryphons rampant. This scheme of decoration is not known on any other work of the class. 4th century B.C.

4. Relief representing a warrior in helmet and cuirass, leaning on his spear, round which coils a snake; in front is a pilaster, crowned by a vase. The design was probably completed by a woman facing the warrior. See *Catalogue of Sculpture* I., No. 750. 2nd century B.C. From Rhodes.

5. A series of small figures of cats, some in limestone, some in marble.

6. A limestone base, which once supported a figure of a cat; it is inscribed **ΓΑΛΑΤΕΙΑ: ΘΕΥΔΟΤΟΥ,** "Galateia, **ΒΟΥΒΑΣΤΙ** daughter of Theudotos, to Bubastis."

5, 6 are said to have been found at Bubastis, in Egypt. They date from the 2nd-1st century B.C.

7. Plaster cast of a fragment from the capital of one of the Mycenæ columns (see below).

VI.—*Terra-cotta.*

1. Head of a goddess, wearing high headdress, diadem, and necklaces. 4th century B.C. From Locris.

2. Statuette of a seated woman, nursing a child on her left arm. Inscribed at the back **ΛΕΟΝΤΕΩΣ,** *Λεοντέως*. From Boeotia (?).

3. Statuette of Aphrodite, standing and wringing her hair with both hands. There are traces of colour on her drapery. From Thebes.

4. Statuette of a woman, draped in tunic and mantle. From Tanagra.

5. Whorl, inscribed **ΕΥΧΑΡΗΣ,** *Εὐχάρης*.

VII.—*Pottery.*

1. White lekythos of large size, with painted design: a stele, on either side of which a youth and a maiden bring offerings. On the steps a youth is seated.

2. Plate, decorated with a circular border, painted pink, white, and black; within the border a woman moves to the right, holding two wreaths. Her hair and wreaths are painted yellow. The design is much injured. Boeotian fabric.

3. Four plain vases of ordinary Mycenæan ware. From Sphiktia, near Mycenæ.

4. Askos, in the form of a lobster's claw with red-figured design of a fox devouring a cock and a dog running. See *Burlington Fine Arts Club*, 1904, p. 117, No. 68, pl. XCVII.

5. Fragment of a white lekythos with design of a nurse holding a child before a seated woman. *Burlington Fine Arts Club*, 1904, p. 106, No. 36, pl. XCIV.

6. Fragment of a white lekythos with design of head and shoulders of a bearded man. *Burlington Fine Arts Club*, 1904, p. 106, No. 37, pl. XCIV.

5, 6 are fine examples of the delicate drawing of the best Attic lekythoi.

7. Lekythos, with pyxis-shaped body, decorated with a design in black figures, representing a sacrifice to Athena.

8. Lekythos, with red-figured design of Demeter standing before the winged car of Triptolemos. Inscribed ΔΗΜΗΤΗΡ, Δημήτηρ, and ΔΙΟΤΙΜΟΣ ΚΑΛΟΣ, Διότιμος καλός, a name not previously known in this connection.

9. Two-handled bowl, decorated with two friezes of animals in black on a red ground.

10. Bowl and jar with lid; the first decorated within and without with girls holding flowers, sphinxes, &c., painted in red and black on a light ground; the second decorated with a frieze of sphinxes, rosettes, and lotos-flowers, painted in the same manner. Græco-Phœnician ware. From Achna in Cyprus.

11. Wine-jug (*oinochos*) of great size with geometric and figured designs in friezes. Among the motives are browsing horses, link pattern, zigzags, vertical lines, &c. "Proto-Attic" ware of the 7th century B.C. From Athens.

12. White lekythos, with design of a stele; on one side of it is a girl carrying a basket, on which is a hare; on the other a youth stands with one foot on a step of the stele, resting his head on his right hand. From Eretria.

13. Lekythos, with design of a woman seated in a chair and weaving with a small hand-loom, which rests on her knee; by her side is a wool-basket. Painted in white and red pigment on a black glaze.

14. White lekythos, with design of a stele, on one side of which is a youth, seated, wearing short tunic and high laced boots, while on the other a woman in a long black tunic makes an offering. The colours are well preserved.

15. Fragment of a cup, decorated with a design of Herakles striking with his club, painted in black on a white ground. The fragment belongs to a cup from Naukratis in the Museum (See *Catalogue of Vases*, III., D 1), and was obtained from the Antiquarium at Munich in exchange for pottery from Enkomi in Cyprus.

16. A series of vases, most of early fabrics, which were formerly in the Morel Collection (See *British Museum Return*, 1902, p. 75 f., and 1905, p. 68) and have now been transferred by the Department of British and Mediæval Antiquities to this Department,

VIII.—*Ivories.*

1. Plaque, with a design in low relief of a lion devouring an ibex.

2. Plaque, made up of two fragments, with a design in low relief. On the upper part is a bearded Seilenos, reclining and drinking out of a horn. On the lower part is a crouching lion; on his back are the ends of two flutes and in front a long tail, perhaps of a Seilenos.

These two plaques are rare examples of the Ionian art of ivory-carving at the beginning of the 5th century B.C. Similar plaques are in the Louvre and at Florence.

3. Three ornaments carved in the form of boys, shown in various attitudes.

By Donation.

I. Three fragments of columns in green limestone, decorated with zigzag bands and spirals. These fragments form the greater part of the two columns, which stood on either side of the entrance to the "Treasury of Atreus" at Mycenæ.

Presented by the Most Hon. the Marquess of Sligo.

II. Three plaster casts of fragments of a column and of the capitals of the two Mycenæan columns.

*Presented by the Greek Government, through
M. Cavvadias, Ephor-General of Antiquities.*

III. Plaster cast of a fragment of one of the capitals of the Mycenæan columns.

Presented by the Karlsruhe Museum.

IV. A series of archaic terra-cotta statuettes, excavated in 1894 at Kamelargà in Cyprus. See *Journal of Hellenic Studies*, XVII., pp. 164 f.

Presented by J. L. Myres, Esq.

V. A series of objects found in the rubbish mounds at Behnesa (*Oxyrhyncus*), with papyri of the 1st to the 5th centuries A.D.

Presented by the Egypt Exploration Fund.

VI. Gold finger-ring; within the hollow bezel a gold plate has been inserted, bearing a design in relief representing the temple of Aphrodite at Paphos. Formerly in the Tyszkiewicz Collection; See *Sale Catalogue*, 1898, No. 195.

Presented by a Friend of the Museum.

VII. Bronze boat-shaped fibula, decorated with incised chevrons and concentric circles. From Orvieto.

Presented by Mrs. W. Kemp-Welch.

VIII. Bronze razor (?) with handle ending in a swan's head and blade engraved with fish and palmettes. From Carthage.

Presented by Miss Mabel Moore.

IX. Two bronze handles of wine-jugs, one in the form of an ape, the other of a panther. Alexandrian art.

Presented by Henry Wallis, Esq.

X. Bronze horse-muzzle.

Presented by C. H. Read, Esq.

XI. A series of terra-cotta statuettes. Acquired at Locri.

Presented by Lady Ottoline Morrell, and the Hon. Hilda Douglas-Pennant.

XII.—1. Fragment of black glazed fluted ware, decorated with a figure of Eros leaning against a column. From Palermo.

2. Stone fragment of the rim of a large jar (*pithos*) with design of a stag hunt in relief. From Girgenti.

3. Steatite lenticular gem with engraved design of a gazelle struck in the neck by a spear. From Knossos, Crete.

Presented by Mrs. Eustace Smith.

XIII. Terra-cotta disc, with a hole on the under side. Found on a primitive site at Gournia, Crete.

Presented by Miss Harriet Boyd.

XIV.—1. Two plaster jar sealings, one inscribed . . .

CILI OCTAVIANI, the other **EDEI
VIVAS.**

2. Limestone stamp, inscribed **CEΛE
YKOY,** Σελεύκου.

3. Terra-cotta lamp, decorated with three grotesque masks. On the base is inscribed **KA.**

Presented by M. Georges Manolakos.

XV. Two fragments of Græco-Roman pottery, one decorated with a design of Pan dancing, the other with a design of two gladiators. From Knidos.

Presented by F. W. Hasluck, Esq.

XVI.—1. Silver half-ring with intaglio design of a Victory. A gold pin has been driven into the ring in antiquity.

2. Three bronze half-rings with intaglio designs: (a) a boy's head rising out of a conch shell; (b) a crane; (c) a water-bird (?).

Presented by M. Jean Gabrilakis.

XVII. Two pairs of silver earrings and four silver rings.
From Thebes.

Presented by M. J. Kondylis.

XVIII. Plaster cast of a steatite vase, decorated with a design in relief which represents a procession, perhaps of harvesters. The original was excavated at Haghia Triada in Crete, and is of pre-Mycenæan date; see *Monumenti Antichi*, XIII., pp. 77 f., pls. I.-III.

Presented by Cecil Smith, Esq.

XIX. Plaster cast of a head from the East Frieze of the Parthenon. See *Michaelis, Der Parthenon*, pl. 14, no. 57.

Presented by the Royal Museum at Berlin.

XX. Plaster cast of an inscription in Greek, forbidding Gentiles to go within the inner court of the Temple at Jerusalem. See *Acts of the Apostles*, c. 21, v. 28. The original is in the Imperial Museum at Constantinople.

Presented by the Rev. W. Bramley-Moore.

XXI. Lead weight; on the upper side is the figure of a winged Victory, with a star and a wheel in the field. Weight, 20 grammes.

Presented by B. V. Head, Esq.

Cecil Smith.

DEPARTMENT OF BRITISH AND MÆDIEVAL ANTIQUITIES AND
ETHNOGRAPHY.I.—*Arrangement.*

Prehistoric Section.—A new table-case has been supplied to contain the model of Arbor Low, and various additions made to the Stone Age Gallery.

Late-Keltic and Gaulish Sections.—The remaining wall-cases containing the British Antiquities have been re-painted and a type-series from the Glastonbury marsh-village exhibited in a table-case. Further progress has been made with the labelling and arrangement of the Morel Collection, and a Merovingian series from the Charente exhibited in the same table-case as the corresponding series from the Morel Collection. Frames with an electrotype series of ancient British coins and map of distribution, as well as a map of ancient Gaul have been added.

Romano-British Section.—The collection of brooches has been roughly classified, and those of Late-Keltic types exhibited apart, to illustrate their development. A slip-catalogue of the ornamented pottery has been commenced.

Mædieval Room.—A frame containing specimens of leather-work has been affixed to the wall, and a shelf re-fitted for the exhibition of enamelled heraldic pendants. The collections of pilgrims' signs, chamberlains' keys, watches, pendants, armour, leather, spoons, with some enamels, and ivories, have been permanently labelled. Several sections have been re-arranged, and a selection of pilgrims' signs exhibited.

Glass and Ceramic Room.—The permanent labelling of the English pottery and porcelain has been completed in accordance with the Catalogues; and the casts from moulds found at Lowestoft exhibited with Lowestoft ware in a new standard case in the ante-room.

Asiatic Saloon.—The porcelain in the three large standard cases has been cleaned and repaired.

Gallery of Religions.—The floors have been polished throughout and the table-cases shifted for the purpose. Two table-cases have been filled with Buddhist specimens from Siam, Burma, and India; Buddhist stone-carvings re-arranged in Cases 44, 45; and Cases 46–55, as well as part of Table-case C, filled with two collections from Tibet. Wall-cases 59–76 have been repainted, and standard cases A and B re-fitted for Buddhist relics, which have been permanently labelled.

Ethnographical Gallery.—In the Asiatic section a collection from Tibet has been placed in Case 161 and labelled, while the Andaman and Nicobar Collections have been re-arranged and labelled. In the Oceanic section another series of feather cloaks from the collection of the Prince and Princess of Wales has been exhibited; the New Zealand table-cases re-arranged, and the Tikis exhibited in a frame on the central screen. In the African section, the Masai section has been re-arranged, and a collection from the Upper Nile exhibited in Case 102. The contents of a Ju-ju house from S. Nigeria and fetishes from South-West French Congo have been placed in Standard-case Q. The collections from the Gold and Slave Coasts in Cases 63-66 have been re-arranged, and a series of masks exhibited and labelled. In the American section, Cases 87-89 have been re-arranged, and collections added with labels.

American Room.—The remaining five wall-cases have been re-fitted and the room completed with general labels. The cases have been numbered, and stone carvings from Central America placed above the wall-cases.

Gold Ornament Room.—The Oxus Treasure has been re-arranged and labelled in accordance with the published Catalogue. The South American series has been re-arranged, and permanent labels provided for the cameos. The re-mounting and labelling of the finger-rings has been begun.

Registration.—The registration of current acquisitions has been continued, and 3,136 objects have been added, while 165 ethnographical specimens have been drawn and described.

Catalogues.—The Catalogues of the Oxus Treasure and of English porcelain were both published in March, and the Guide to Antiquities of the Early Iron Age in October. Progress has been made with the Guide to the Ethnographical collections.

Additions have been made to the slip-catalogue of mediæval pilgrims' signs, and a slip catalogue of the Ivory and Maiolica collections begun. A number of Ceramic and Prehistoric pamphlets have been arranged for binding.

Photographs to the number of 69 have been taken in the Department for purposes of illustration and reference; 577 type-written labels cut and bordered; 59 mounting-boards papered, and 999 specimens mounted. Specimens from Torres Straits, Samoa, and New Zealand, as well as Japanese armour and North American Indian dresses, have been cleaned. Two table-cases have been lined, and a slope velveted. Forty impressions of wood-blocks have been taken, 12 wooden stands stained and varnished, and 162 blocks for finger-rings covered with velvet.

Registration numbers have been painted on 4,417 specimens, and 1,778 permanent labels written. Wooden labels, plinths, and pedestals to the number of 1,564 have been prepared.

An Ogham stone has been repaired and mounted, and an Indian sculpture mounted: several pieces of Central American sculpture and two figures in the Colonnade have been washed. Ninety-seven packing-cases of specimens collected on the Cooke-Daniells expedition to New Guinea have been dealt with, and 17 cases of specimens despatched to various museums.

One thousand nine hundred and five students and visitors have been received in the Department; and two parties from the John Lyon School at Harrow conducted through the Prehistoric section by a member of the Staff.

II.—*Acquisitions.*

(1.) *Prehistoric and Early British Antiquities:—*

A porphyry palæolithic implement and two of flint from Hertingfordbury, Herts; several palæolithic flints from Knowle Farm Quarry, Savernake Forest, and some of exceptionally small size from the same site and from Welwyn, Herts; found and given by Rev. H. G. O. Kendall.

Ochreous flint of "colithic" form and small dimensions from the North Downs, near Ightham; and part of an implement from the palæolithic area north of Ash Church, near Wrotham, Kent; given by B. Harrison, Esq.

A large flint pounder from the Thames at Hammersmith; a polished flint celt found near Mitcham, Surrey; flint arrow-heads and flakes from Northdale, near Bridlington, E.R. Yorks; and a barbed arrow-head from Blackaton Farm, Bodmin Moors; given by C. H. Read, Esq., F.S.A.

Part of a broad flat knife of flint dredged from the Thames at Cookham, Berks; given by R. E. Goolden, Esq., F.S.A.

A pierced stone axe-hammer of exceptional workmanship, dredged from the millstream at Cookham, Berks, 1896; given by Stephen Darby, Esq.

Pottery vase with a band of bosses, perhaps of neolithic date; found in the Thames.

A model of Stonehenge, Wilts.

A bronze halbert-blade and dagger with rivets found at Wrexham, Denbigh, 1838, the former illustrated in *Archæological Journal*, XI. 414; a similar halbert-blade of the Bronze Age from Maryport, Cumberland, with three rivets in position.

A socketed spear-head of bronze dredged from the Thames at Cookham Dean, Berks; given by R. E. Goolden, Esq., F.S.A.

An ornamented bronze bowl and an embossed fragment of bronze, both of the Late-Keltic period, and found in London (Mayhew Collection); also an embossed bronze mount of Early British work, from Tooley Street, City of London.

Four Late-Keltic cinerary urns, one of pedestal type, from Rochester, Kent; given through the National Art Collections Fund.

Bronze fastener and harp-shaped brooch found at Lincoln, and an iron socketed spear-head from the River Lea; given by C. H. Read, Esq., F.S.A.

A type-series from the British marsh-village at Glastonbury, Somerset, including pottery, loom-weight, and weaving-combs; given by the Glastonbury Antiquarian Society.

A Late-Keltic sword-sheath with engraved scroll-work, two discs with enamel studs attached by rivets, and a pair of stout bronze rivets, found together in 1861 at Buckthorpe, near Stamford Bridge, E.R. Yorks; given by Right Hon. the Viscount Halifax.

An iron sword of La Tène type with part of another and a fragment of the bronze scabbard, found during excavations for Lockwood Reservoir, Walthamstow, Essex; given by Sir Weetman Pearson, Bt., M.P.

A typical series of flint implements from Belgium illustrating the transition from eolithic to palæolithic forms in that area; from the Spiennes pits (Trouille valley) and the alluvium of the Haine valley; given by Dr. A. Rutot.

An extensive series of eolithic and palæolithic flints from the neighbourhood of Thebes, Upper Egypt; collected and given by Dr. G. Schweinfurth.

Twenty flint implements from the heights above Thebes and Ermant, Upper Egypt; given by Montagu Poreh, Esq.

Two hammer-stones found during excavations at Knossos, Crete, and probably from the neolithic stratum; given by Mrs. Eustace Smith.

A flake of purple flint found with fossil ox-bones in the gravels of Nabada River, Central Provinces of India; given by Edward Bidwell, Esq.

A series of small flint and quartzite implements from the coast of Victoria, near Melbourne; given by Frederick Chapman, Esq., A.L.S.

A number of flint knives and implements from ancient mine heaps at Wady Maghara, and small knives and borers from an ash-bed at Wady Ahmar, Peninsula of Sinai; given by the Egypt Exploration Fund.

A stone of oval form tapering to the top where it has a transverse groove; obtained in Smyrna, and given by H. Swainson-Cowper, Esq., F.S.A.

Bronze knife with pierced handle, belonging to the late Bronze Age of Denmark; given by C. H. Read, Esq., F.S.A.

Two bronze statuettes and a series to show the manufacture of ring-brooches found at Despeña Perros, Sierra Morena, Spain; given by Horace Sandars, Esq., F.S.A.

(2.) *Romano-British* :—

Enamelled bronze brooch, found at Warwick; given by Mrs. Eustace Smith.

Three bronze brooches of different types found at Lincoln; given by C. H. Read, Esq., F.S.A.

Handle of a bronze spoon, found at Lakenheath Warren, Suffolk; given by G. F. Lawrence, Esq.

An urn of grey ware, dredged from the Thames at Cookham, Berks; given by R. E. Goolden, Esq., F.S.A.

(3.) *Anglo-Saxon and Foreign Teutonic* :—

An important series of jewellery, glass and bronze, including a massive gold ring of Roman work, from graves of the Anglo-Saxon period at Milton and elsewhere in Kent, from the Humphrey Wood Collection; given through the National Art Collections Fund.

Terminal of a penannular brooch, set with garnets in gold cell-work, from the Willett Collection; given by Max Rosenheim, Esq., F.S.A.

A massive gold finger-ring, set with a sard intaglio, found at Faversham, Kent.

A gold ring of plaited strands, dating from the Viking period and found in a stone coffin, St. Aldate's, Oxford.

Ornamented bronze square-headed brooch, found in Stapleford Park, Saxby, Leics.; given by Miss M. B. Dockray.

Bronze buckle, with gilt plate deeply incised with animal design of the 6th century, from Icklingham, Suffolk.

Bronze brooch of penannular type, but with the flattened terminals joined, from the Londesborough Collection.

A large and important series of jewelled ornaments, beads, toilet articles, weapons and other ironwork, bronze vessels, glass and pottery of the Merovingian period, from the extensive cemetery at Herpes, near Angoulême, Dépt. Charente, described by M. Philippe Delmain and others in *Bulletin et Mémoires de la Société Archéologique et Historique de la Charente*, 6th series, vol. 1 (1890-1), with album of plates.

A selection from antiquities discovered by M. Terechin in the Efaefsk grave-mound, near Krasnoslobedsk, Government of Pensa, Russia, comprising tresses of hair bound with bark and bronze rings, bronze brooches, bracelets, fasteners and iron knives: an account is given in the *Hull Museum Quarterly Record*, No. 4, March 1903.

(4.) *Mediæval and Later* :—

(a.) *British*.—An inscribed silver brooch of the 14th century, from Clare, Suffolk, and a silver badge, with Our Lady of Loretto; bequeathed by J. G. Waller, Esq., F.S.A.

An alabaster carving, representing the Resurrection, in exceptional preservation, with gilt and coloured ground: English work, about 1500.

Leaden badge with pearled edges, Gothic tracery and a crown, from Coventry; given by Miss Dockray.

Four mortuary crosses of lead, found with many others in graves on the site of Christ's Hospital, City of London.

An unusually fine and elaborate ring-dial and perpetual calendar of gilt brass, made in 1575 by Humfrey Cole; given by C. J. Wertheimer, Esq.

Iron and copper bell, found in the Thames under Putney Railway Bridge.

Bronze armorial pendant, found at Cliffe, Rochester: two monumental brasses, (i) a shield of arms impaled, from Newark, and (ii) a palimpsest fragment from Lincoln; and a silver-gilt watch made by Wm. Camden, of London (1708-35); all given by C. H. Read, Esq., F.S.A.

Gold watch with Roman and Arabic numerals, made by Daniel Quare, of London; given by Max Rosenheim, Esq., F.S.A., through the National Art Collections Fund.

Enamelled gold watch and fob-chain, made by Richard Clarke and Son, London; given by Frederick Tessier, Esq.

Copper medallion with Greek characters and magic symbols; given by Dr. Tien.

A "terret" for guiding the reins over the horse's back, found at Great Missenden, Bucks; given H. H. Rogers, Esq.

A massive iron bridle bit with gilt rosettes, 16th century.

Pair of iron spurs with rowels, 17th century.

Enamelled portrait of King William III., probably by Craft; and a topaz intaglio of King George II., the back faceted; given by Max Rosenheim, Esq., F.S.A.

Sacramental flagon of pewter, from Seaford Church, Sussex, dated 1642, and a tipstaff and bronze toilet article, from Lincoln; given by C. H. Read, Esq., F.S.A.

Gold serjeant's ring, with the hall-mark of 1828.

(b.) *Foreign*.—Bronze matrix of the seal of Jacobus d'Ygnano, Doctor of Laws: Italian work; given through the National Art Collections Fund.

Reproduction of a seal-matrix of the monastery of Maienfeld, Grisons, Switzerland, 13th century; given by Sir John Evans, K.C.B.

Double bronze mould for statuette of the Virgin and Child, Flemish, 16th century; and a leaden plaquette representing Music, by Peter Flötner: German, 16th century; given by Max Rosenheim, Esq., F.S.A.

Cuir-bouilli cylindrical case, with whorls and floral scrolls, in which the church plate was kept at Whelnetham Parva, Suffolk: 16th century.

Ivory medallion, probably by Cavalier, of the Electress Palatine, Wilhelmine Ernestine (m. Charles, 1671; d. 1706).

Eight wooden draughtsmen, stamped with busts and scenes: German, 17th century; given by G. H. Lockner, Esq.

(5.) *Ceramic and Glass Collections*:—

(a.) *Oriental Wares*.—Plate of Turkish faience, 16th century; given by H. J. Pfungst, Esq., F.S.A., through the National Art Collections Fund.

Two Damascus tiles with blue decoration, 16th century; and part of a pottery tile from the Temple of Heaven at Pekin; given by Sidney Vacher, Esq.

Five glazed bowls of the 13th century, found at Rakka, near Aleppo.

Persian vase with turquoise glaze and black design, 14th century, from Bokhara; given by Max Rosenheim, Esq., F.S.A.

Five Japanese bowls made in Kiyoto, Choshu and Itizen; given by S. Stern, Esq.

Beaker of celadon ware, probably of the early Ming period; given by A. J. Sandars, Esq.

Porcelain cup with Chinese representation of the Crucifixion; given by L. A. Lawrence, Esq.

Chinese vase with flambé glaze, in ormolu mount; bequeathed by L. Van Oven, Esq.

Porcelain female figure, holding a child on left arm: Chinese, 18th century; given by Max Rosenheim, Esq., F.S.A.

Several pieces of Chinese porcelain and glazed pottery from Lhasa and monasteries in Tibet.

(b.) *Continental*.—Maiolica albarello with quartered shield of arms in colours: Italian, 15th century; and another with decoration in blue and lustre, of the 16th century,

Maiolica statuette of exceptional size, representing St. Roch, perhaps Gubbio ware, and a jug of unusual form, both of the 16th century; given by C. Fairfax Murray, Esq.

A set of nine pottery tiles with tin-glaze and design in green, from Brioude, Haute Loire.

Tile of red ware with remains of green enamel, 16th century, of French make, but found near Hurstpierpoint, Sussex; given by A. E. Griffith, Esq.

A series of Spanish wall-tiles, with heraldic and floral designs of the 16th century, mostly from Valencia; given by Señor Don G. J. de Osma.

Dresden figures of Hebe and Ganymede; bequeathed by L. Van Oven, Esq.

A French tile of the 16th century, from Tuxford, Notts., and another, perhaps of Flemish maiolica, from Watton Abbey E.R. Yorks; both given by Thos. Boynton, Esq., F.S.A.

(c.) *English*.—Pottery jug of the Norman period, with traces of dark green glaze, found in Wood Street, London, 1878; given by Sir W. T. Thiselton-Dyer, K.C.M.G.

Small glazed pot found full of plaster in the wall of Steeple-Gidding Church, Hunts.; given by Rev. H. J. Molyneux.

Four fragments of glazed ware, with green and yellow glaze, from Bristol; given by Spencer G. Perceval, Esq.

Glazed pottery fragments and kiln-rests from the churchyard, Eynsford, Kent; given by E. D. Till, Esq.

Wall-tile of Liverpool delft, and three other tiles, one from the River Hull; given by Thos. Boynton, Esq., F.S.A.

Liverpool wall-tile, printed in blue; given by B. Dansie, Esq.

Two mugs of Bristol porcelain, made for exhibition at the House of Commons in 1775; porcelain jug of Plymouth or Bristol ware, dated 1770; coffee-cup of Bristol ware, dated 1774; and a Chelsea cream-jug of goat-and-bee pattern, dated 1745; all given by Charles Borradaile, Esq.

Chelsea vase with painted butterflies and flowers, and gilt mount, from the Huth Collection.

Three Chelsea and two Derby figures, also two of Derby-Chelsea ware; bequeathed by L. Van Oven, Esq.

Porcelain bowl with creamy glaze decorated in sepia, and marked *Lane End, July 1787*; given by F. Bennett Goldney, Esq., F.S.A., through the National Art Collections Fund.

Marbled tea-pot, with gilt edging, marked *Wedgwood and Bentley*, and made at Etruria about 1770; given by C. B. Farmer, Esq.

Cream-ware teapot, with Masonic arms and emblems, printed at Liverpool about 1770.

Figure of a stag, with brown glaze, and Leeds ware mug with marbled glaze; given by C. H. Read, Esq., F.S.A.

Tin-glazed pot found with other specimens near Vauxhall Bridge, London, late 18th century; given G. F. Lawrence, Esq.

(d.) *Glass*.—Bowl with decoration in narrow bands, and a cup with coloured enamels, both of the Græco-Roman period.

Stibium-phial of graceful form, of the Roman period, from Jaffa; given by Mrs. C. M. Reid.

An important series of Roman and Merovingian specimens from the cemetery at Herpes, Dépt. Charente.

Amber-coloured bottle with applied decoration, and four-sided bottle on legs, both found at Tel Manes, near Aleppo.

Fragmentary glass beads ploughed up at Minster, Thanet; given by C. H. Read, Esq., F.S.A.

Cup with conical purple bowl and winged stem, from the Adrian-Hope collection; given by Murray Marks, Esq.

A pair of vases with floral design in colours, of Bristol ware, from the Edkins Collection; given by Charles Borra-daile, Esq.

(6.) *Collection illustrating various Religions*:—

(a.) *Christianity*.—Pottery flask of the 6th century, with figure of St. Menas and inscription in Greek; given by M. Georges Manolakos.

Pebble incised with Cross and Syriac characters, used as tombstone of a Nestorian Christian, and found near Issik-Kul Lake, Russian Turkestan; given by Lord Osborne Beauclerk.

(b.) *Buddhism*.—Cast of a soapstone tope, with inscription in Kharosthi characters, found in 1898 at Piprahwa, Basti district, United Provs. of India; given by the Trustees of the Indian Museum, Calcutta.

Ancient Buddhist figures in bronze and inscribed plinth, from Bezwada, described in *Journal of Royal Asiatic Society*, 1895, p. 617; given by the Secretary of State for India in Council.

Part of stamped brick, with 13 seated figures in relief and inscription below, found at Kyaukku cave temple, Pagan, Burma; given by Robert Sewell, Esq.

Eleven clay-sealings, stamped with deities and inscribed with invocations and the confession of faith, from Gya, Ladak district, Kashmir; given by Mrs. Milne.

Brass standing figure with silver canopy, and seated figure of crystal from Ceylon; from the Nevill Collection.

Wooden screen with inscriptions in Chinese, Tibetan, Mongolian and Manchu, recording the dedication of a figure from Lhasa in the Great Lama temple at Peking.

A number of brass, copper, wood and stone figures of deities, many containing manuscripts and charms, temple-vessels, pictures, furniture and book-covers, idol ornaments and charms, from Lhasa and monasteries in Tibet; collected by Col. H. A. Iggulden during the expedition in 1904.

Nine temple-pictures with representations of various deities in colours, from Tibet; given by the Hon. Walter Rothschild, M.P., and Charles Davis, Esq.

A series of clay images and dagobas, used as votive offerings, and obtained by the donor from caves at Taklakot, Western Tibet; given by Deputy-Commissioner C. A. Sherring.

Brass candlesticks, bells and other temple-furniture from Corea (Emberley Collection).

(c.) *Brahminism*.—Brass statuettes of divinities from India (William Simpson Collection).

Two stone carvings, one decorated in black and gold, from Java.

Three pebbles, with fossil marks, called Saligrama, all symbolizing Vishnu, from Vizagapatam; given by R. W. Davis, Esq., I.C.S.

(7.) *Oriental and Ethnographical*:—

Asia.—An interesting series of weapons and utensils from the Jarawa of the South Andaman, collected during two reconnaissances in January and February 1902 (see Official Papers, extracts from the Reports and Diaries of Messrs. P. Vaux, C. G. Rogers, and M. Bonig, January–February 1902) given by Sir R. C. Temple, Bart., C.I.E.

An interesting collection of utensils from the Malays of Perak, given by the Director of the Ethnological Museum, Perak.

A bronze plate engraved with an inscription in Pali; given by Edward Bidwell, Esq.

Glass bangles, obtained near Naini Tal, India; given by the Rev. F. Campbell.

A pottery model of a lamp placed on graves, from Kohat near Peshawar, India, and an oil-flask from Meshed, Persia; given by Sir W. T. Thiselton-Dyer, K.C.M.G.

A stone carving in high relief, one of a series of portraits of Sindas of Jelbarga, from Arasibidi, Bijapur, Bombay; given by J. F. Fleet, Esq., C.I.E.

A copper vase, brass cymbals, a wicker shield, a woven hanging, and paper charms, collected during the expedition to Tibet in 1904, and given by Percival Landon, Esq.

Impressions on paper of copper land-grants; India; given by the Secretary of State for India in Council.

An important series of hats and dresses, ceremonial and otherwise, together with personal ornaments and badges of rank, from Lhasa, Tibet; collected by Capt. W. F. O'Connor during the expedition in 1904.

A suit of old scale-armour taken at Phari Jong, showing affinities with the scale-armour of Siberia and Japan, and a series of rice-bowls and ornaments of Chinese porcelain from Lhasa, Tibet; collected by Col. H. A. Iggulden during the expedition in 1904.

An important collection of weapons, ceremonial and otherwise, carved and inlaid knives, utensils, and personal ornaments, from Ceylon. Collected by the late Hugh Nevill, Esq.

An important series of tin ingots in the shape of animals, believed to have been used formerly as currency in the Malay States, and mentioned by travellers; now obsolete.

A gilt collar of Chinese workmanship, inlaid with stones and enamel, and engraved with an inscription in Langtshá script.

A series of objects illustrating the ethnography of Corea, including temple furniture, and ancient bronze bowls from tombs of the Kuru dynasty at Taiku, Corea.

The bezels of three bronze finger-rings, engraved, one with the figure of a woman and an inscription in Kharohṣṭi, the second with the *Nandi pada* and an inscription in Kharohṣṭi, and the third with the device of a man strangling two snakes.

An ethnographical series from Perak, including weights and measures, pottery, industrial appliances, and weapons.

A trumpet of brass and copper taken from a Lama at Gyantse Jong, July 1904.

A chalcedony seal of ancient Indian work, with two figures in intaglio, and a human face in relief on the back.

A bronze candlestick, with engraved ornament, of the 14th cent., from Bokhara.

Africa.—A collection of great interest representing the contents of a Juju-house in a mangrove-belt near Allabia in the Andoni Country, Southern Nigeria, which was destroyed by the Government in consequence of human sacrifices which had taken place there. Among the objects are a large ivory horn ornamented with four human skulls, a stool ornamented with goat-skulls, ceremonial swords and spears, and figures of cast bronze, showing considerable skill in workmanship, together with a large series of *manillas* of various sizes, some particularly large and ornamental; given by the Government of Southern Nigeria.

An extensive and important series of steatite carvings in human and animal form, together with iron weapons and ornaments, and a large number of pottery fragments, collected by Mr. D. Randall-MacIver and Mr. F. H. Andrews on the site of the ruins at Umtali, Rhodesia; given by the Rhodes Trustees.

A series of ethnographical objects from hitherto unexplored country in the neighbourhood of Lake Chad, and from Liberia and Bornu; given by P. E. Talbot, Esq.

A pottery bowl from Socotra; given by Sir W. T. Thiselton-Dyer, K.C.M.G.

An ostrich-feather head-dress from East Africa; given by the Hon. W. Rothschild, M.P.

Four silver brooches and three cloths woven in colours, from the Kabyles of Algeria; given by Mrs. Eustace Smith.

A girdle made of long strips of monkey-skin, from the neighbourhood of Nairobi, East Africa Protectorate; given by Sir J. W. Wolfe-Barry, K.C.B.

A carved wooden knobkerry and pipe, from East Africa; given by Sir J. W. Wolfe-Barry, K.C.B., and Lieut. R. P. Lewis.

An interesting collection of fetish figures from West Africa.

A statuette, drinking-horn, and two bells in bronze, and a carved ivory tusk from Benin.

A series of interesting ceremonial masks and other objects from Southern Nigeria.

A collection of personal ornaments, fetishes, and weapons, from the South-West French Congo.

A carved stool and a fetish bowl for offerings, in wood, and two perforated stones, from the Baluba of the Congo Free State.

A woman's brass neck-ring weighing 25 $\frac{3}{4}$ lbs., taken from the neck of a chief's wife on the Upper Lulanga River, Congo Free State.

A series of so-called "gold-weights," in brass, from Ashanti.

A carved wooden scoop from Angola, a ceremonial sword from the Gold Coast, a ceremonial dress and cap from the Masai, and a paddle.

Oceania.—A series of weapons and textiles from the New Hebrides; given by the Rev. W. H. Edgell.

A stone flake, said to be used in initiation rites, and a glass spear head, from Esperance, Western Australia; given by W. A. Harrison, Esq., Resident Magistrate and Local Protector of Aborigines.

A feather head-dress from Cape York, Queensland, Australia; given by D. C. Lee, Esq.

An extensive series of fragments of remarkable pottery, with three finely engraved shells, and fragments of stone clubs and adze-blades, excavated at Collingwood Bay, British New Guinea; given by C. A. W. Monckton, Esq., Resident Magistrate.

A singularly fine specimen of a Maori *torino*, or flute, and a carved feather-box, from New Zealand; a large bowl, a stool, and a tapa-beater, from Tahiti; and a plaited sinnet cord from the Eastern Pacific. These specimens are undoubtedly of considerable age, and exhibit unusual perfection of workmanship.

A remarkable staff with five knobs, four carved to represent a pair of conventional human figures back to back, that in the centre two such pairs feet to feet. Between the knobs the staff is bound ornamentally with sinnet braid. The specimen is of great interest; the workmanship proves it to date back to the days of the early voyagers, and it was probably one of the local idols; with it, a peculiar short, axe-shaped club, engraved with two conventionalized human figures carved on the butt; probably from Rarotonga.

A series of carved boards, unusually rough stone clubs, and coco-nut spoons, and a pottery vase, from Port Romilly, New Guinea.

America.—An extensive and valuable collection of personal ornaments for use at dances and on other occasions, together with musical instruments, ceremonial objects, utensils, and weapons, from the Uitoto Indians of the Upper Amazon; collected and given by M. E. Robuchon.

An interesting series of weapons and personal ornaments from the highlands of British Guiana; collected and given by Dr. Carl Bovallius.

Vases and bowls of painted pottery from British Guiana, and a pottery owl from the Ojibway Indians of North America; given by Sir W. T. Thiselton-Dyer, K.C.M.G.

A series of stone celts from the Rio Tibagy, Brazil; given by A. C. Gale, Esq.

Two house-posts with totemic carvings, from British Columbia.

A whale's-bone mallet from the North-West Coast.

A implement used by the Eskimo in preparing gut.

III.—CHRISTY COLLECTION.

During the year 56 slips have been prepared for the Registration Catalogue, with sketches of the objects, and 226 objects have been registered. The Christy Trustees have

acquired by donation and purchase the following objects, which they have transferred to the Trustees of the British Museum :—

I.—*Prehistoric Antiquities of Europe, Asia, and Africa* :—

Donations.—Two implements of sandstone and ironstone from Hardwick Hall, Derby, and portion of a palæolith from Canterbury ; given by F. J. Bennett, Esq.

A chert arrow-head from Sarsden, Chipping Norton, Oxon ; given by the Earl of Ducie, P.C., F.R.S.

A series of palæoliths from the plateau of the Western Thebaid, Egypt, together with a number of similar types from Suffolk ; given by H. R. H. Hall, Esq.

A dressed granite block, part of a wooden post, and a spherical hammer-stone from the Regina Ruins, South-East Africa ; given by Franklin White, Esq.

II.—*Ethnography of Asia* :—

Donations.—A series of men's ornaments from Borneo ; given by Godfrey Hewett, Esq.

A collection of weapons and ornaments from the Andaman Islands ; given by Mrs. Horsford.

Native cooking-pots, baskets, and other objects of ethnographical interest from Sarawak, Borneo ; given by Dr. Charles Hose.

A handsome specimen of the stringed instrument known as *Vina*, from Southern India ; given by Lady Huggins.

A tinder-clock from Canton, models of Chinese coffins in wood and ivory, and a series of Japanese *noshi*, or symbolical presents ; given by C. Lund, Esq.

A bamboo pipe, and an implement for watering sago, from the country behind Collingwood Bay, British New Guinea ; given by the Rev. W. R. Maunsey.

A nose-flute from the Loi aborigines of Hainan, China ; given by E. T. C. Werner, Esq.

A series of weapons, ornaments, musical instruments and other objects illustrative of the ethnography of Borneo and the Philippine Islands, collected by the donor's late son ; given by J. Whitehead, Esq.

Purchase.—An extensive and highly important collection of ethnographical objects from Sarawak, Borneo, formed by Dr. C. Hose, Resident. It embraces objects connected with the worship and daily life of the various tribes, a remarkable series of carved and painted house-boards, a comprehensive collection of native-woven cloths, and specimens of the various types of currency.

III.—*Ethnography of Africa*:—

Donations.—Two pairs of stirrups, Hausa and Beri-beri, from Northern Nigeria ; given by Dr. Coker Adams.

Five old beads, including one with chevron pattern, from Mendiland, West Africa ; given by A. W. Boddy, Esq.

A Zulu covering from South Africa ; given by G. F. Eastwood, Esq.

A large buffalo-hide shield from the Nilotic Ja-Luo, on the north shore of Victoria Nyanza, Uganda Protectorate ; given by C. W. Hobley, Esq.

A large and important series of weapons and utensils from the Bertat of the Upper Nile, collected by the late Major Guy de H. Smith, of the Egyptian Army ; given by Captain E. de H. Smith.

An interesting helmet of felted human hair and brass plates worn by the Latuka, and five magic stones used by a rain-maker of the Bari people ; Lake Rudolf and Upper Nile ; given by F. Spire, Esq.

An ivory horn from the Upper Congo ; given by E. T. C. Werner, Esq.

A collection of pipes, spoons, snuff-boxes, and bead-work, from South Africa ; given by J. Whitehead, Esq.

IV.—*Ethnography of Oceania and Australia*:—

Donations.—An interesting collection of weapons and utensils from the native tribes on the Victoria, FitzMaurice, and Goyder Rivers, North Australia ; collected and given by Captain J. Bradshaw.

A cast of a flint implement from Tasmania in the Taunton Museum ; given by H. St. George Gray, Esq.

A necklace of *dentalium* shells, from Roebuck Bay, North-West Australia ; given by Mrs. Tabor.

Shell adze-blades from Ontong Java, fish-snare from Ysabel, bead-belt from Shortland, and other objects from Marovo and New Georgia, Solomon Islands ; given by C. M. Woodford, Esq.

A native loom from Sikaiana ; given by Mrs. Woodford.

V.—*Antiquities and Ethnography of America*:—

Donations.—A pottery vase ornamented with designs in red and black, from the Moqui of Arizona ; given by W. Crewdson, Esq.

An interesting series of bronze figures and pins from ancient graves at Cuzco, Peru ; given by W. Bruce Douglas, Esq.

A stone cooking-vessel and lamp, and part of another cooking vessel of remarkable size, from Labrador ; given by Dr. W. T. Grenfell.

Two stone implements from the United States of America ; given by H. R. H. Hall, Esq.

A valuable series of published works relating to the excavation of mounds in Florida and Georgia, U.S.A. ; given by the author, Clarence B. Moore, Esq.

An ancient pottery stamp from the Rio del Oro, Guerrero, Mexico ; given by F. J. M. E. Patmore, Esq.

A fine leather apron and head-dress from the Jivaro Indians of the Upper Amazon ; given by F. W. Rudler, Esq., I.S.O.

A feather head-dress from Guiana ; given by G. H. Slade, Esq.

A bark receptacle containing charred human bones, found with other skeletons, most of which had been cremated, on the bank of the Fraser River, at Quesnelle ; given by J. Turner-Turner, Esq.

Charles H. Read.

DEPARTMENT OF COINS AND MEDALS.

I.—*Exhibitions.*

A series of Medals illustrating the history of the British Navy has been arranged, with labels, in two cases, as part of the Nelson Centenary Exhibition in the King's Library, and described in the official Guide to the Exhibition.

The work of cleaning the Medals exhibited in the corridor adjoining the Medal Room has been begun, and over 400 medals of the British, Italian, and German series have been carefully treated.

II.—*Registration and Arrangement.*1. *Greek Series*:—

442 coins, recently acquired, have been registered and incorporated.

36 coins, hitherto regarded as uncertain, have been identified and incorporated.

3 tetradrachms, hitherto given to Cyrene, have been transferred to Scione in Chalcidice.

86 electrum coins, discovered in the course of the British Museum excavations at Ephesus, and submitted to the Keeper of Coins, have been minutely examined, weighed and described.

Several collections offered for purchase or donation have been examined, and, where desirable, selections have been made. Among these were numerous lots of miscellaneous Greek coins; a large series of rubbings of coins chiefly of Thrace and Moesia; a series of Coreyra; 3 selections of coins of Greece and Asia Minor; 2 series of coins of Phœnicia; and a dealer's stock of coins of Kings of Macedon from Philip II. to Perseus.

The series of electrotypes and casts of coins not in the Museum has been expanded by the insertion of two cabinets, and a large series of electrotypes of coins in other collections and a collection of casts illustrating the Hunter Collection at Glasgow have been incorporated.

The work of writing tickets giving references to the published catalogues has proceeded; 885 have been written for *Lydia* and 50 for *Parthia*, and placed beneath the coins to which they refer.

The indexes of Types in the Catalogues of the Græco-Scythic Kings and of Parthia have been cut up and incorporated in the combined index of Types of Greek Coins.

Additions have been made to the Manuscript Bibliography of Greek Numismatics.

A hand-list of monograms and single letters, occurring as sole or chief types on Greek coins, has been drawn up with a view to facilitate identification.

2. *Roman and Byzantine Series* :—

479 coins recently acquired have been registered, and 537 incorporated.

A small find of bronze coins of the fourth century after Christ from Farnborough has been examined.

Selections of coins desirable for the Museum have been made from a series of Roman Republican coins and a series of Byzantine coins offered by dealers.

The coins of Nerva have been examined, and the unpublished varieties noted for a foreign scholar.

A collection of sulphur casts of coins not in the Museum has been arranged for reference in a separate cabinet.

3. *British and Colonial Series* :—

126 coins, medals, and tokens recently acquired have been registered and 176 incorporated.

A Treasure Trove from Kensington has been examined.

The Medals of Schools and Societies have been arranged with fresh heading cards and labels in a new cabinet.

4. *Mediæval and Modern Series* :—

125 coins and medals recently acquired have been registered and incorporated.

The series of Poland, Denmark, Norway and Sweden have been transferred to new cabinets, and the coins of these countries from the Freudenthal Collection incorporated with them.

151 coins of the Grand Masters of Malta, 104 coins of Siberia, 1,577 coins of the Italian States, and 127 of the Portuguese Colonies have also been transferred from the Freudenthal to the General Collection.

The whole of the Italian series has been expanded and re-arranged with fresh labels and heading cards in 13 cabinets. An index of the various States, giving references to the cabinets has been drawn up to facilitate the consultation of the collection.

The coins of the Emperors of Trebizond have been removed to a more suitable cabinet.

A small selection of French and Spanish coins has been made from the Kensington Treasure Trove.

A list of Visigothic coins has been examined, and a selection made of specimens required for the Museum.

The Italian medals of the sixteenth century have been transferred to new cabinets with fresh heading-cards and labels. Several rectifications have been made in the course of this transference.

The medals of Italian States later than 1600 have been removed from the King's Cabinet and arranged with heading-cards and labels in a new cabinet.

5. *Oriental Series* :—

432 coins recently acquired have been registered and incorporated.

29 lead coins of the period of the Andhras, belonging to some dynasty as yet unidentified, have been for the first time deciphered and arranged under the names of two kings.

Numerous collections have been examined, and where desirable selections for the Museum have been made. Among these collections were :—Several parcels of Oriental coins forwarded by the Superintendent of the Imperial Gazetteer of Baluchistan and the Hon. Secretary of the Asiatic Society of Bengal; a large collection of coins of the Mongols of Persia and other Mohammedan dynasties of Persia and Transoxiana (over 160 selected); a collection of ancient coins of S. India (96 lead and copper Andhra coins selected); a small collection of Parthian and Sassanian coins formed in Persia.

A number of rare gold coins of the Gupta series, belonging to the Indian Museum, Calcutta, have been examined, and casts and descriptions made.

III.—*Catalogues.*

1. CATALOGUES OF GREEK COINS.

Coins of Phrygia, by B. V. Head.

The MS. of the text of this volume has been completed and passed for press, amounting to 429 pages, and Plates I.—XLII. have been photographed.

Coins of Phœnicia, by G. F. Hill.

The coins of Aradus have been weighed, described, and classified in chronological order, and the portion of the historical and numismatic Introduction relating to this city has been written.

2. CATALOGUES OF ROMAN COINS.

Roman Republican Coins, by H. A. Grueber.

Signatures B-X (= 160 pages) have been passed for press, and Plates I.—XXXV. have been photographed.

Coins of the Byzantine Empire, by W. Wroth.

The coins of Constans II. and of his successors to Nicephorus II., Phocas, inclusive (641-969 A.D.), have been classified, weighed and described, the total number of specimens at present catalogued for this work being 3,053.

3. CATALOGUES OF BRITISH COINS AND MEDALS.

Handbook of the Coins of Great Britain and Ireland, by H. A. Grueber. A second issue of this work has been published.

Medallic Illustrations of the History of Great Britain and Ireland, by H. A. Grueber. (Atlas of plates.)

Parts III. and IV. comprising Plates XXI.-XL. have been printed and published.

4. CATALOGUES OF ORIENTAL COINS.

Indian Coins.—Andhras and Western Kshatrapas, by E. J. Rapson.

Signatures B-D (= 24 pages) have been passed for press, and Sig. E (= 8 pages) for revise.

IV.—Acquisitions.

The total number of coins and medals added to the Department during the year 1905 was 1,488, of which 129 are of gold, 659 of silver, 502 of bronze, and 198 of other metals.

The following table shows the numbers of the new acquisitions classified according to the several series to which they belong:—

Class.	Gold.	Silver.	Bronze.	Other Metals, &c.	Total.
Greek - - - - -	3	146	290	—	439
Roman - - - - -	53	4	51	—	108
British and Colonial - - - - -	8	79	24	14	125
Mediæval and Modern - - - - -	4	50	23	79	156
Oriental - - - - -	61	380	114	105	660
Total - - - - -	129	659	502	198	1,488

Of the above, 507 have been presented, viz., 42 of gold, 148 of silver, 229 of bronze, and 88 of other metals.

These donations are due to the generosity of the following benefactors, &c. :—

The Corporation of the City of London; the Trustees of the Hunterian Coin Catalogue Fund, University of Glasgow; the Belgian Minister of the Interior; the Darbar of the Dewas State, Central India; the Egypt Exploration Fund; the Government of Assam; the Bombay Branch of the Royal

Asiatic Society; the Asiatic Society of Bengal; the Government of Bengal; the Government of the Panjâb; the Government of the United Provinces of Agra and Oudh; the Madras Museum; the Siamese Government; the Pan-American Mediæval Congress (Chile); the National Library of Rio de Janeiro; the Royal Geographical Society; the Phené Spiers Testimonial Fund; W. C. F. Anderson, Esq.; Col. J. Biddulph; the Honourable R. N. Bland, Resident Councillor, Malacca; Miss Bode; W. C. Boyd, Esq.; Alexander Caldwell, Esq.; Col. Sir Neville Chamberlain, K.C.B.; C. Delaval Cobham, Esq.; G. T. Cooke, Esq.; Evelyn Grant Duff, Esq.; Sir John Evans, K.C.B., F.R.S.; Prof. Percy Gardner, Litt.D.; Commendatore Francesco Gnecci; W. A. Graham, Esq.; H. A. Grueber, Esq., F.S.A.; F. A. Harrison, Esq.; F. W. Hasluck, Esq.; Sir H. H. Howorth, K.C.I.E., F.R.S.; Capt. J. de M. Hutchinson, R.N.; G. Macdonald, Esq., LL.D.; C. E. G. Mackerell, Esq. (Bequest); E. W. G. Masterman, Esq.; L. D. Montague, Esq.; H. Allan Morgan, Esq.; H. W. Norris, Esq.; Rev. C. S. Painter; M. E. Pariset; Capt. D. G. Peart; Herr Bernhard Perrot; J. H. Pinches, Esq.; G. M. H. Playfair, Esq., H.B.M. Consul, Foochow; Prof. Harvey Porter; C. H. Read, Esq., F.S.A.; Mrs. C. M. Reid; Major M. B. Roberts; Max Rosenheim, Esq., F.S.A.; T. J. Salwey, Esq., J.P.; Horace Sandars, Esq., F.S.A.; E. J. Seltman, Esq.; Capt. Eric H. Sharman; Col. C. G. Shepherd; Cecil Smith, Esq., LL.D.; Samuel Smith, Esq.; Messrs. Spink and Son; Rev. L. Harding Squire; C. Thomas-Stanford, Esq., F.S.A.; Rev. Dr. Anton Tien; Alan J. B. Wace, Esq.; Percy H. Webb, Esq.; Sir Hermann Weber, M.D.

REMARKABLE COINS AND MEDALS.

1. *Greek Series* :—

Among the 439 Greek coins added to the National Collection during the year 1905, the following are the most important :—

(a.) *Europe* :—

Italy.—A silver coin of the city of *Croton* (wt. 18 grs.). *Obv.* Tripod: *rev.* Thunderbolt between star and eagle on column.

A large bronze coin of *Capua*. *Obv.* Head of Zeus; *rev.* Eagle on thunderbolt.

Sicily.—Three coins of *Agrigentum*, including an archaic didrachm, with the shell of the crab on the reverse treated so as to suggest a grotesque face (*cf.* Imhoof-Blumer, "*Chœix*," Pl. viii., 263), also a rare didrachm of the same city of the period of finest art.

A very rare bronze *litra*, struck probably at *Herbessus* about the time of Timoleon's League (345 B.C.). *Obv.* Head of *Sikelia*; *rev.* Fore-part of a human-headed bull.

A very fine obol of *Naxos*. *Obv.* Head of Dionysos; *rev.* Bunch of grapes and vine-leaves.

A rare archaic obol of *Syracuse* with a bearded head on the obverse.

Mæsia Inferior.—A silver coin of the town of *Callatia*. *Obv.* Head of Artemis; *rev.* A mounted archer. This coin is of an earlier date than any coins of Callatia hitherto published.

Four silver drachms of the city of *Istrus* on the Euxine Sea, near the mouths of the Danube. These coins belong to the later half of the 5th or to the earlier half of the 4th cent. B.C. Their types, heads, upwards and downwards, of a divinity, resembling the head of Helios on Rhodian coins, have been hitherto explained as those of the Dioscuri. Dr. Head is, however, inclined to think that they are simply symbolical of the rising and the setting sun.

Sarmatia.—An interesting collection of coins of the Greek cities *Olbia* and *Tyra* in Sarmatia (S. Russia), comprising, with other rarities, an unique silver coin of Olbia. This collection also contains at least 8 specimens of the large bronze pieces of Olbia, remarkable as being the only Greek coins which were, not struck, but *cast* in moulds, like the Roman *Aes grave*. The most remarkable of these cast coins is one in the shape of a dolphin, nearly 4 inches in length.

Tauric Chersonesos.—A bronze coin of *Cercine*, a city of which the Museum had previously no coins.

Four silver coins of *Panticapæum* and two rare bronze coins probably of the same town, the obverse types of which are respectively a Satrap's head and the satrapal leather helmet.

Thrace.—Four silver diobols of the city of *Apollonia* on the Euxine, struck in the 4th century B.C. *Obv.* Head of Apollo, facing; *rev.* Anchor and cray-fish with abbreviated magistrates' names.

A silver stater of the Æginetic standard of the city of *Abdera*, dating from about 400 B.C. *Obv.* A rearing gryphon of remarkably fine style; *rev.* [ΔΙ]ΟΝΥΣΑΣ, the name of the eponymous magistrate: *type*, Head of bearded Dionysos crowned with ivy. This device was evidently chosen by the chief magistrate with especial reference to his personal name.

A bronze coin of considerable rarity of *Sadales*, King of a part of Thrace in the 1st century B.C.

A bronze "medallion" of Elagabalus, struck at *Philippopolis* on the occasion of a festival called ΚΕΝΔΡΕΙCΕΙΑ ΠΥΘΙΑ. The reverse shows a view in perspective of an octastyle temple.

A bronze coin of *Hadrianopolis* of the time of Gordian III., on the *rev.* of which is a veiled woman conducted by two men; at their feet are three small reclining figures, two of whom hold torches (a bridal scene?).

Macedon.—An archaic tetrobol of *Mende* with an ass on the obverse, above which is an eye, the distinguishing emblem of the neighbouring city of Scione.

An unpublished hemidrachm of *Scione*, having on the *obv.* a head of Apollo (?), and on the *rev.* a helmet.

A tetradrachm of *Alexander the Great* with a syrinx as an adjunct symbol on the reverse.

A rare bronze coin of *Philip V.* [220-179 B.C.]. *Obv.* Bust of the River-god, Strymon, facing; *rev.* Artemis standing.

A very rare tetradrachm bearing the names of the Roman governors [L. Julius] *Cae[sar] Pr[actor]* and his Quaestor, *Aesillas*, B.C. 93-92.

Paonia.—A bronze coin differing from others previously known in the form of the ethnic ΠΑΙΟΝΩΝ instead of ΠΑΙΟΝΩΝ.

Thessaly.—A remarkable bronze coin of the time of Nero having on the obverse a bust of Peace and the *inscr.* ΕΙΡΗΝΗ ΣΕΒΑΣΤΗ ΘΕΣΣΑΛΩΝ and on the reverse a personification of Thessaly (?) holding a horse by the bridle.

Crete.—A tetradrachm of *Gortyna* of great historical interest and rarity. It was struck after the conquest of Crete by the Roman Proconsul, Q. Cæcilius Metellus B.C. 67-66. On the *obverse* is the head of Roma wearing a winged helmet adorned on the side with an elephant's head, the family emblem of the Cæcili Metelli. On the *reverse* is the cultus-statue of Artemis Ephesia. The reason for the choice of this goddess for the type of a tetradrachm struck in Crete is quite unexplained (see *Zeit. f. Num.* x., 119).

(b.) Asia:—

Asiatic Bosphorus.—A rare silver coin of *Phanagoria*.

Pontus and Bosphorus.—A very rare tetradrachm of *Mithradates the Great* bearing the date 209 of the Pontic era (= 89-88 B.C.).

Mysia.—A small electrum coin struck at *Cyzicus* ($\frac{1}{12}$ stater) with a kneeling figure holding a tunny on the *o* *verse*.

A large "medallion" of *Miletopolis*. *Rev.* the Emperor Gordian III. on horseback spearing a lion.

Lycia.—Fifteen ancient silver coins, mostly rare or unknown varieties. Among them are the following:—An archaic stater, *obv.* Sphinx, *rev.* Crab holding a cray-fish in its claws; a tetrobol, *obv.* Boar, *rev.* Head of a bearded

warrior; a diobol, *obv.* Winged figure, *rev.* Gryphon; also several specimens with names in Lycian characters of various native dynasts.

Syria.—A tetradrachm, probably unique, of *Antiochus I. or II.* of Syria, having on the *obv.* a fine portrait of Antiochus I., and on the *rev.* the figure of a bearded Herakles, seated on a rock covered with the lion-skin. This is the prototype of the device which was afterwards adopted on the coins of King Euthydemus of Bactria. The mint-mark on this important coin is a one-handled vase, the symbol of the city of Cyme in Aeolis, a distinct proof that the coin, whether issued by Antiochus I. or II. (a doubtful point), was struck at Cyme, and consequently that that city was then subject to the King of Syria.

Phœnicia.—A silver octadrachm of *Sidon* (5th century B.C.), an unpublished variety. *Obv.* War galley; *rev.* King in chariot, and date in Phœnician characters.

A didrachm of *Tyre*. *Obv.* Melkarth riding on a Hippocamp over the sea; *rev.* Owl with flail. Date 279 B.C.

Judæa.—A specimen of the rare shekel of *Simon Barcochba*, leader of the second revolt of the Jews (133–135 A.D.). *Obv.* Temple of Jerusalem represented as a portico with four columns; above it is a star, the symbol of Barcochba (Son of the Star); *rev.* Ethrog and Lulab.

Persia.—A silver siglos countermarked on one side with a triskelis, and on the other side with a crux ansata.

(c.) Egypt:—

Egypt.—A bronze coin of *Naucratis* of great rarity, from the same dies as the specimen first published by Dr. Head (*Num. Chron.*, 1886, pl. I., 9), and attributed by him to the time of Ptolemy I., during the interval between the death of Alexander (323 B.C.), and the date of Ptolemy's assumption of the title of king (305 B.C.).

Presented by the Egypt Exploration Fund.

2. Roman and Byzantine Series:—

Nine sestertii of the Emperors Claudius I., Hadrian, M. Aurelius, &c. *Presented by Percy Webb, Esq.*

A dupondius of Antoninus Pius and a bronze coin of Maximinus Daza. *Presented by W. C. Boyd, Esq.*

A bronze medallion of Maximianus Herculius and an unpublished bronze medallion of Marcus Aurelius, struck in commemoration of the conquest of Armenia (A.D. 162–165).

A Romano-Gallic solidus of Valentinian III., found at Sittingbourne in Kent.

In the Byzantine series, 35 scarce and well-preserved gold solidi have been acquired, as well as the following coins :—

A rare bronze coin of Phocas and Leontia.

Presented by Alan J. B. Wace, Esq.

A unique solidus of Philippicus (A.D. 711–712), struck at Rome.

Two rare solidi of Anastasius II. (A.D. 713–715), struck by this usurper during his brief reign.

A solidus of great rarity of Alexander (son of Basil I.) whose sole reign (A.D. 912–913) lasted only one year. On the obverse he is shown under the protection of a saint, apparently St. Alexander.

3. *British and Colonial Series* :—

The pattern Crown of Cromwell, by Thomas Simon.

The pattern “Reddite” Crown of Charles II., by Thomas Simon.

The pattern Crown, 1662, of Charles II., by Jan Roettier.

These three rare pieces, which are in the finest state of preservation, were

bequeathed by the late C. E. G. Mackerell, Esq.

A Spanish Dollar of Ferdinand VII., countermarked for English currency. *Presented by W. A. Graham, Esq.*

A seventeenth-century token of Lambeth.

Presented by T. J. Salwey, Esq., J.P.

A seventeenth-century token of Wellington in Oxfordshire. *Presented by Miss Bode.*

Two bronze Tokens of 1838, found in Ireland.

Presented by Col. Sir Neville Chamberlain, K.C.B.

Medals.—Attack on the Isle of Rhé, 1688 (cp. *Medallic Illustrations*, I., p. 248). The snail pierced by an arrow refers to the tardy movements of the English troops on the occasion.

Coronation of James II. and Mary. *Reverse*, the Sun in splendour. An unpublished silver medal by G. Bower.

Landing of William Prince of Orange at Torbay in 1688. *Reverse*, inscription in Dutch referring to the raising of the Prince's Standard at Exeter. An unpublished silver medal.

National Association for King William, formed in 1696. In pewter.

Bombardment of Tonningen and Copenhagen by the English, Dutch and Swedish Fleets in 1700. Extremely rare.

Foundation of the Ouzel Galley Society by Dublin merchants in 1700, to determine commercial disputes by arbitration. A gold medal, unique in this metal.

Defeat of the French and Spanish Fleets in Vigo Bay in 1703. *Reverse*, Neptune and Queen Anne. An unpublished silver medal, of Dutch workmanship.

Negotiations for Peace, 1707. *Reverse*, two hands joined. No specimen of this silver medal was known to the editors of the "Medallic Illustrations."

Capture of Bethun, St. Vincent and Aire, 1710. Not published in the "Medallic Illustrations."

Ten Dutch satirical medals relating to John Law the Financier, 1720.

The badge of the True Patriotic Society in silver. Extremely rare.

Marriage of Frederick, Landgrave of Hesse, and Mary, daughter of George II., 1740.

Coronation visit of Their Majesties King Edward VII. and Queen Alexandra to the City of London, 25th Oct. 1902.

Presented by the Corporation of the City of London.

A portrait-medal of John Pinches, the engraver.

Presented by John H. Pinches, Esq.

Bronze medal of the Berks Education Committee.

Presented by Prof. W. C. F. Anderson.

A bronze replica of the gold medal awarded to Capt. R. Falcon Scott, of the Antarctic Expedition, 1902-1904.

Presented by the Council of the Royal Geographical Society.

Portrait-medal of Mr. R. Phené Spiers, by E. Lanteri, 1905.

Presented by the Committee of the Phené Spiers Testimonial.

4. *Mediæval and Modern Series* :—

Bulgarian and Hungarian silver coins of the fourteenth and fifteenth centuries.

Presented by Horace Sandars, Esq., F.S.A.

Nineteen Spanish silver coins of the reign of Ferdinand and Isabella.

A double Louis d'Or of Louis XVI. and two others of Charles III. of Spain, selected from the Kensington Treasure Trove, 1905.

Six copper and sixty-eight tin coins, chiefly Portuguese, Dutch, and Colonial of Malacca.

Presented by the Hon. R. N. Bland, Resident, Malacca.

Twenty-one bronze coins of four Princes of Kilwa, German East Africa.

Presented by Herr Bernhard Perrot.

Two lead coins from Lamu, East Africa.

Presented by Capt. J. de M. Hutchinson, R.N.

A Russian platinum coin of 1834.

Presented by Max Rosenheim, Esq., F.S.A.

A bronze medal with the bust of Pope Nicholas V., and reverse, View of Rome.

Presented by Max Rosenheim, Esq., F.S.A.

Five bronze medals of Apostles, Italian work, *circ.* A.D. 1530.

Presented by Max Rosenheim, Esq., F.S.A.

A bronze Papal medal with a bust of Christ on the obverse, 1625.

Presented by Max Rosenheim, Esq., F.S.A.

A German lead medal, sixteenth century, of Hans Han, "Formenschnider."

Presented by Sir John Evans, K.C.B., F.R.S.

Five silver, two pewter and one bronze-gilt medals bearing the head of Christ; German work of the sixteenth, seventeenth, and eighteenth centuries.

Two specimens (silver and bronze) of the medal struck in 1905 in commemoration of the Belgian Independence.

Presented by the Belgian Minister of the Interior.

5. *Oriental Series* :—

Hindu.—One bronze and ninety-five lead coins of the Andhra Dynasty of Southern India, from the collection of R. Sewell, Esq., I.C.S. (retired).

Twenty-five bronze coins of various Rajput Dynasties.

Presented by Major M. B. Roberts.

Mohammadan.—Five gold, 157 silver, and four bronze coins of various Mohammadan Dynasties, including the Shaybanids, the Chagatai Mongols and the Timurids, from the collection of the late E. E. Oliver, Esq., M.R.A.S.

A dirhem of the Caliph Sulaiman, struck at Maisan, A.D. 96.

Presented by Prof. Harvey Porter.

Siamese.—Ten gold, twenty-four silver, seven bronze and four nickel coins of Siam of the five sovereigns of the reigning dynasty from 1782 to the present time.

Presented by His Majesty the King of Siam.

V.—*Students and Visitors.*

The number of visits made to the Department of coins and medals by students and others during the year 1905, was 4,411.

Barclay V. Head.

X.—BRITISH MUSEUM (NATURAL HISTORY).

STATEMENT of PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and ACCOUNT of OBJECTS added to them, in the Year 1905.

GENERAL PROGRESS.

Visitors.

In 1905, for the first time since the opening of the Natural History Museum, the number of visits paid to the galleries by the public in any one year exceeded half a million, the total number recorded being 566,313, an increase of 95,756 over the total in 1904, and of nearly 80,000 over that of any previous year. The number of visits recorded as having been made on Sunday afternoons was 70,084, as against 60,909 in 1904.

The average daily attendance for all open days during the year was 1,560·09; for week-days only, 1,600·73, and for Sunday afternoons, 1322·34.

Swiney Lectures.

Dr. J. S. Flett delivered a course of Swiney Lectures on Geology in the autumn, commencing on Monday, 6th November, and finishing on Friday, 1st December, the subject being "The Geological History of Great Britain." The lectures, 12 in number, were given in the theatre of the Victoria and Albert Museum, by permission of the Board of Education, and were attended by an average of 328 persons per lecture, as compared with 248 in 1904.

The Trustees have appointed Dr. R. F. Scharff, Keeper of the Natural History Collections of the Dublin Museum, to the Swiney Lectureship for the two years 1906-7.

Reproduction of Diplodocus.

The reproduction of the skeleton of the remarkable extinct reptile, *Diplodocus carnegii*, presented by Mr. Andrew Carnegie to King Edward VII., and transferred by His Majesty to the British Museum, has been placed in the Reptile Gallery, the mounting of the specimen having been carried out under the superintendence of Dr. W. J. Holland, Director of the Carnegie Museum, Pittsburgh, U.S.A. The ceremony of presentation took place on the 12th May, when Mr. Carnegie was present, and Lord Avebury, on behalf of the Trustees, received the specimen in the presence of a representative gathering of about 300 persons. Mr. Carnegie defrayed the entire cost of mounting and of the handsome mahogany base on which the specimen rests.

The "Discovery" Antarctic Expedition Report.

Early in the year a circular was issued showing that the work had been divided into 50 subjects, which have been distributed among 43 specialists.

Dr. Wilson and Mr. Ferrar, two of the members of the scientific staff of the Expedition, have nearly completed their reports, and the manuscripts will shortly be sent to the printers.

Mr. Hodgson, also of the scientific staff, has been largely occupied in separating out the contents of the collections of Animal Plankton; this work was completed early in 1906; and the specimens will now be distributed among various specialists.

New System of Drainage.

Provision has been made in Class I. of the Estimates for a new drainage system for the entire building, and the work is being carried out under the supervision of the Office of Works.

Purchases.

Among the more important acquisitions made by purchase during the year, special mention may be made of the following:--Selections from the late Mr. R. F. Tomes's collections of natural history, including 8,853 English fossils and about 800 specimens of mammals (30 being types); the first portion of Dr. D. Sharp's extensive collection of coleopterous insects, this instalment, consisting of about 22,000 specimens of *Dytiscidæ*, or water-beetles, about 500 being types; a series of about 5,000 specimens of Coleoptera of the family *Cassididæ*, selected from the collection of the late Dr. Baly, and including 192 types; an extensive collection of birds, eggs, and insects obtained by Mr. W. Foster in the interior of Paraguay; three skeletons of natives of the Andaman Islands; 2,615 Jurassic fossils selected from the collection of the late Mr. E. Witchell, including type and figured specimens, and many rare species; a selected series of vertebrate fossil remains from the Oxford Clay of Peterborough; three meteoric stones from Warbreccan, Central Queensland, the only known representatives of the fall; and a selected series of fossils from the carboniferous limestone of Belgium, comprising 400 forms, of which 300 are new to the Museum.

Bequests.

The late Mr. Alexander Fry, of Norwood, bequeathed to the Museum his magnificent collection of coleopterous insects, the catalogue thereof, and his entomological library.

By this munificent bequest the national collection of Coleoptera has been enriched by nearly 200,000 specimens, including numerous types and rarities new to the Museum.

Another bequest made last year to the Museum was that of the late Mr. Edward Cavendish Taylor, comprising a collection of 1,279 birds, 868 eggs, and 33 mammals, together with the cabinets containing the specimens.

Presents.

The total number of presents recorded as having been received during the year by the several Departments of the Museum was 2,092, as against 1,933 in 1904. Many of these comprised large numbers of individual specimens. The details of all the more important of them will be found in the reports of the Keepers of the several Departments, but the following are mentioned here also as being of special interest or importance:—

From His Royal Highness the Prince of Wales.—A bronze statuette, modelled by Captain Adrian Jones, of “Persimmon,” the thoroughbred stallion belonging to His Majesty the King.

From His Grace the Duke of Bedford, K.G.—A series of mammals and birds from Japan, being a first instalment of a collection which is being formed in East Asia by Mr. M. P. Anderson, who has been sent out by the Duke to make a systematic zoological exploration of that part of the world.

From Mr. Andrew Carnegie.—A plaster cast of the skeleton of the remarkable extinct reptile *Diplodocus*, together with the handsome mounting of the specimen. (*See ante*, p. 103.)

From Dr. Alfred Russel Wallace.—An interesting series of pencil drawings of fishes of the Rio Negro, made by Dr. Wallace during his travels in South America about fifty years ago.

From W. O. B. Macdonough, Esq.—The skull and limb-bones of the celebrated thoroughbred stallion “Ormonde,” formerly owned by the Duke of Westminster.

From Captain H. J. Walton, I.M.S.—A collection of birds made by him during the recent British expedition to Tibet.

From F. Du Cane Godman, Esq., LL.D., F.R.S.—Further consignments of Central American insects, consisting of 8,618 Coleoptera, 4,727 Lepidoptera, 885 Homoptera, and 196 Ephemeroidea; also a valuable series of about 5,000 specimens of Spiders from Central America.

From Colonel G. Rippon.—A collection of birds obtained by him while exploring little known parts of Burma and Western China, consisting of 335 specimens from the Kauri-Kachin district, and 1,260 from Mt. Victoria in the Chin Hills.

From E. G. B. Meade Waldo, Esq.—A collection of birds chiefly from the Canary Islands and Morocco.

From Mrs. Stoddart.—278 folios of water-colour drawings of Japanese fishes, prepared by Japanese artists for the late Mr. J. Meldrum Stoddart during his residence in Nagasaki.

From C. D. Rudd, Esq.—Further large collections of zoological specimens from S. Africa.

Exchanges and Gifts of Duplicate Specimens.

Exchanges of duplicate specimens have been made with several institutions and individuals.

The following have been placed on the list of institutions to receive grants of duplicate specimens of Natural History, namely:—The Surveyors' Institution; the Froebel Institute, West Kensington; Alleyn's School, Dulwich; Huddersfield Museum; Moyses Hall Museum, Bury St. Edmunds; and Rochdale Museum.

Selections of duplicate specimens have been presented as follows:—

Of zoological specimens—to Liverpool University; La Plata Museum; the museum of St. Paul's School Field Club; the Sir John Cass Technical Institute; Wimbledon Technical Institute; the Technical Education Board of the London County Council; the Royal Scottish Museum, Edinburgh; Eton College Museum; Campden School of Arts and Crafts, Chipping Campden; Mr. R. Püngeler; Dr. W. Barnes; Mr. H. d'Orbigny; Prof. Y. Sjöstedt, of Stockholm Museum; Mr. M. A. Régimbart; Prof. C. Aurivillius; Mr. J. H. Fleming, of Toronto; and Mr. W. Cross, of Colorado.

Of fossils and casts of fossils—to University College, Aberystwyth; St. Paul's School Museum; the American Museum of Natural History, New York; the Carnegie Museum, Pittsburgh, U.S.A.; the Surveyors' Institution; the Royal Albert Memorial Museum, Exeter; Worcester Museum; Mr. Frank Springer; and Prof. E. Koken.

Of minerals—to the Ward Schools, Aldersgate Street, E.C.; the Sir John Cass Technical Institute; and Dr. Charles Hose, of Sarawak.

Publications.

The under-mentioned works on Natural History have been published during the year:—

Catalogue of the collection of Birds' Eggs in the British Museum (Natural History). Vol. IV. Carinatae (Passeriformes continued). By E. W. Oates and Captain Savile G. Reid. Pp. xviii, 352: 14 coloured plates. 8vo. 30s.

Catalogue of the Lepidoptera Phalænæ (Moths) in the British Museum. Vol. V. Noctuidæ (Hadeninæ). By Sir G. F. Hampson, Bart. Pp. xvi, 634: 172 woodcuts. 8vo. 15s. Atlas of 18 coloured plates. 8vo. 15s.

Catalogue of the Madreporarian Corals in the British Museum (Natural History). Vol. V. The Family Poritidæ. II.—The Genus Porites. Part I.—Porites of the Indo-Pacific Region. By H. M. Bernard. Pp. vi, 303: 35 plates. 4to. 35s.

Illustrations of Australian Plants collected in 1770 during Captain Cook's voyage round the World in H.M.S. "Endeavour." Being a series of lithographic reproductions of copper-plates engraved for Sir Joseph Banks and Dr. Solander. With determinations by James Britten. Part III. 77 Plates, with 26 pages of descriptive text (pp. 77-102) and 3 maps. Fol. 25s.

Catalogue of the Fossil Plants of the Glossopteris Flora in the Department of Geology. Being a Monograph of the Permo-carboniferous Flora of India and the Southern Hemisphere. By E. A. Newell Arber. Pp. lxxiv, 255: 51 figures and 8 plates. 8vo. 12s. 6d.

Guide to the Gallery of Birds in the Department of Zoology. (By W. R. Ogilvie Grant.) Pp. iv, 228: 24 plates and 7 figures. Roy. 8vo. 2s. 6d.

———— Part I. General Series. Pp. 149. Roy. 8vo. 6d.

———— Part II. Guide to the Nesting Series of British Birds. Pp. 62: 4 plates. Roy. 8vo. 4d.

Guide to an Exhibition of Old Natural History Books, illustrating the . . . study of Natural History to the time of Linnæus. (By B. B. Woodward.) Pp. 27. 8vo. 3d.

Copies of these works have been sent to many Free Libraries and other institutions in Great Britain and Ireland, to Colonial, Indian, and Foreign Museums, Libraries, and Scientific Societies, and to various individuals who have either assisted in the preparation of the volumes or otherwise benefited the Museum.

Selections of the Natural History publications of the Museum have been presented to several institutions and individuals.

Arrangements have been made with several additional institutions for an exchange of publications.

New editions have been issued of the Guide to the Shell and Starfish Galleries price 6d. ; Guide to the Fossil Reptiles Amphibians, and Fishes, price 6d. ; Guide to the British Mycetozoa, price 3d. ; the Students' Index to the Collection of Minerals, price 2d. ; Directions for Collecting Mammals and Blood-sucking Flies, price 3d. each.

The following works are in preparation :—

History of the Collections, Vol. II., Zoology.

Catalogue of the Library, Vol. III.

Hand-list of Birds, Vol. V., by R. B. Sharpe.

Catalogue of Birds' Eggs, Vol. V., by E. W. Oates, revised and completed by W. R. Ogilvie Grant.

Report on the Natural History Collections of the "Discovery" Antarctic Expedition.

Catalogue of Moths, Vol. VI., by Sir G. F. Hampson, Bart.

Catalogue of Cicadidæ, by W. L. Distant.

Illustrations of British Blood-sucking Flies. First Series.

Catalogue of Corals, Vol. VI., by H. M. Bernard.

Catalogue of the Fossil Vertebrata of the Fayum, by C. W. Andrews.

Catalogue of Fossil Rodentia, by C. I. Forsyth-Major.

Catalogue of Fossil Fishes, Vol. V., by A. Smith Woodward.

GENERAL LIBRARY.

The additions to the General Library during the past year have been :—

By purchase	-	-	-	346	volumes.
By donation	-	-	-	516	volumes, 8 maps, and 52 photographs.

TOTAL	-	-	-	883	volumes, 8 maps, and 52 photographs.
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All the volumes and maps have been catalogued, press-marked, and put in their places, while 111 volumes have been bound in 91.

The extent of the collection on the 31st December was 34,807 volumes, 5,607 maps, and 315 photographs (not including those in the Owen Collection of Drawings, &c.).

The accessions to the Departmental Libraries have also been catalogued as they came in, and duplicate transcripts of the titles have been returned with the books.

Altogether 2,325 title-slips have been written, 78 re-written, and 2,644 revised.

There are now, on a rough estimate, 81,813 volumes (exclusive of continuations and minor *separata*) and 5,870 maps in the whole building.

The printing of the Catalogue has been continued, and the work at the end of the year stood as follows :—

No. of sheets passed for press (A—Lind)	-	140
No. of title-slips set up in type (A—Linn)	-	32,841

The increase in routine work has, however, seriously delayed this undertaking.

An exhibition of old Natural History Books, illustrating the origin and progress of the study of Natural History up to the time of Linnæus has been temporarily placed on show in the Central Hall, and a guide thereto has been prepared and put on sale.

The compilation of a list of Books, &c., published by, or relating to the Natural History Departments of the British Museum, has been begun.

Seven sets of sheets 131-136 of the Catalogue have been stamped with index-letters showing in which Department the various works are to be found, and copies have been supplied to each Department.

The permanent card-catalogue has been mounted as far as the end of sheet 140, and the work of transferring to it the press-marks and other memoranda from the old temporary slips has been carried on as far as the end of sheet 118.

The number of visits paid to the Library during the year by students and others (irrespective of the staff and persons to whom the use of a key is granted) was 1,157.

INDEX MUSEUM AND MORPHOLOGICAL COLLECTIONS.

Of the additions made during the past year to the exhibits in the Central Hall, the most noteworthy is a series of hybrid Maize cobs grown in Ceylon by Mr. R. H. Lock for the purpose of verifying Mendel's theory of heredity, and presented by him to the Museum.

In the "Malaria Case" the various parts of the head, legs and wings of the enlarged models of *Culex*, *Anopheles* and *Chironomus* have been labelled, and the series has been augmented by the addition of a model of the piercing apparatus of *Culex*, drawings of the head of *Chironomus*, male and female, and drawings of the piercing organs of *Culex* and *Anopheles*.

Eight specimens have been added to the osteological series in the wall-cases of the first recess on the west side of the Hall; a map showing the distribution of the known species of *Glossina* in Africa has been mounted; and the case containing the specimens illustrating the anatomy of the Lancelet has been removed from its position upon the ill-lit end wall of the fifth recess on the west side to a prominent position at the entrance to the recess. A considerable amount of work has also been done in the way of remounting and respiriting such of the anatomical preparations in the Hall as were in need of attention.

The case illustrative of Ankylostomiasis or Miner's Disease, which was set out in 1903, continues to attract considerable attention. A label giving an account of the recent discoveries of Prof. Looss has been added during the last year.

A case containing eggs of parasitic and non-parasitic Cuckoos, &c., has been placed in the Hall.

Seventy-six specimens of fishes have been restored and coloured according to published coloured figures and descriptions, in continuation of the work begun in 1904. The wall-cases of the south half of the Fish Gallery have been repainted, and the specimens replaced, with the exception of the Pleuronectids, the series of which is not yet complete. The Sword-fish case also has been repainted, and the specimens coloured and re-arranged. Large coloured drawings have been added of *Regalecus*, *Trachypterus*, *Cladoselache* and *Xenacanthus*, and models of *Climatius* and *Pterichthys*. The head and pelvic fins of the specimen of the Basking shark, caught off Shanklin, have been set up, with three fossil clasper-spines, for comparison with those of the recent shark; and progress has been made with the restoring and mounting of the large sharks hanging from the roof and side rails. A card catalogue of the 350 specimens selected for exhibition in the south half of the gallery has been drawn up, giving the register number and history of each specimen and the figures and descriptions from which it was coloured.

ECONOMIC ZOOLOGY.

The work in connection with this section has been very similar to that of the previous year. The numerous questions submitted had reference chiefly to insects: many of them from medical men who are investigating the spread of diseases through the instrumentality of insects, others from various persons who ask advice respecting some pest, or for the name of some injurious insect.

A considerable number of additions have been made to the series of exhibits in the North Hall. Among them the following may be specially mentioned:—

Examples of spruce fir showing the injury caused by Pine Weevils (*Hylobius abietis*).

Cotton plants showing the injuries caused by various insects, specimens of which are exhibited, including the "Egyptian cotton boll worm" (*Earias insulana*), and the "Egyptian cotton worm" (*Prodenia littoralis*).

The Malay Sugar-cane borer (*Phragmataecia*), with examples of the moth and damaged cane.

Durra leaves damaged by the Durra Aphis (*Aphis sorghi*, Theob.), with specimens of the insect, and also its Lady-bird enemies, *Chilomenes vicina* and *Coccinella 11-punctata*.

Specimens illustrating the life-history of the Willow Aphis (*Lachnus viminalis*), with examples of the leaves and wood injured by them.

Examples of the Cabbage Aphis (*Aphis brassicæ*), which has recently been causing much damage in Essex and Kent.

Specimens showing the injury caused to rose bushes by scale insects, or the "Scurvy Bark Louse" (*Diaspis rosæ*); also examples of various moths, the caterpillars of which feed on roses.

Peas attacked by the larvæ of a small fly, or "Pea Midge" (*Diplosis pisi*).

Wine corks bored by caterpillars of *Oinophila v-flava*; and of the Fig Moth (*Ephestia ficella*).

Hide damaged by Ox Warble.

The following are some of the subjects of inquiry:—

- (1.) Specimens of Indian House-fly (*Musca determinata*) and other flies sent for determination as possibly conveying disease from filth trenches.
- (2.) A biting fly, *Stomoxys calcitrans*, sent from India for determination as not improbably conveying disease.
- (3.) A small fly, *Simulium damnosum*, sent for determination from Uganda. Its bite causes great irritation and produces large swellings and sores.
- (4.) *Pangonia zonata* and other Horse-flies (*Tabanidæ*), believed to disseminate a fatal disease among horses in Somaliland.
- (5.) Two kinds of gnat (*Theobaldia annulata* and *Anopheles maculipennis*) sent for determination. These were so troublesome in Somersetshire as to make the use of mosquito curtains necessary.
- (6.) Midges (*Chironomus riparius*) causing great annoyance at Wandsworth. Sent for determination, and with inquiry as to their origin, from the Medical Officer of Health.
- (7.) Household mites (*Glyciphagus domesticus*), infesting furniture, sent for advice.
- (8.) Larvæ of a moth, "Bag-worms" (*Psychidæ*) sent for determination from British Central Africa. Supposed by the natives to be poisonous to cattle.
- (9.) Growing coffee-berries injured by weevils (*Scolytidæ*) in Angola.
- (10.) Fruit-flies (*Ceratitis capitata*) in South Africa and West Australia.

- (11.) Fish-insects (*Lepisma*) from various places, injuring photograph, altar cloth, on picture, and on palliasses.
- (12.) Underground lead-covered electric cable injured, apparently by White-ants (*Termites*) in Hong Kong. A somewhat similar question was submitted respecting overhead telegraph cables. In this case the injury seemed to be due to lightning.
- (13.) Cocoa-nut trees greatly damaged by beetles (*Calandra stigmaticollis* and *Melittomma insulare*) in the Seychelles.
- (14.) Wooden bread platters pierced by small beetles (*Lyctus canaliculatus*).
- (15.) Caterpillars of a butterfly (*Rhopalocampa juno*), very injurious to cocoa-nut palms. Sent for determination from Aburi, Gold Coast.
- (16.) Specimens of a Long-horned Locust (*Phaneroptera 4-punctata*) in a vinery near Chester; imported.
- (17.) Larvæ of a Longicorn Beetle (*Macrotoma natala*), damaging hardwood timber used in a temporary railway bridge in British Central Africa.
- (18.) Live Cockroaches imported from West Indies in bananas, *Nyctebara tenebrosa*, and *Periplaneta americana* from Scarborough.
- (19.) Hothouse grapes injured by a fly (*Drosophila melanogaster*) near Huddersfield.
- (20.) Cigarettes badly injured by a small beetle (*Lasioderma tectacea*); sent by a London firm.

E. Ray Lankester,

British Museum (Natural History),
2 February 1906.

Director.

DEPARTMENT OF ZOOLOGY.

I.—*Arrangement and Conservation.*

Mammalia.—In the exhibition series the gradual elimination of old and faded specimens and their replacement by new ones, mounted according to modern methods, has been continued so far as opportunity and financial considerations have permitted. The case for Langur and Guereza Monkeys in the Upper Mammalian Gallery, alluded to in last year's report, has been completed, with great advantage to the general appearance of the Gallery and the display of the specimens. The re-arrangement and repainting (green) of the cases containing the smaller Carnivora in the Lower Mammalian Gallery has been completed; and two of the Rodent cases have been similarly treated. A new case for Hares and Rabbits has been installed in one of the bays rendered vacant by the removal of the Elephants, thereby relieving the congestion in the other Rodent cases.

An unsatisfactory portion of the Lower Mammal Gallery was the last bay on the north side, partly owing to overcrowding and partly to the want of light in that particular bay. An improvement has been effected by devoting the darkest case entirely to skeletons, and by painting the floor of the adjacent central case light green instead of brown. As regards the overcrowded condition of the other cases, this has been remedied by the removal of the Bush-bucks to the West Corridor, where they have been temporarily disposed among the existing cases, pending the installation of a new one, which is already in order. The repainting and re-arrangement of the other cases at the north-west end of the Lower Mammal Gallery is still in progress. The Antelope case in the West Corridor facing the staircase leading to the Upper Mammal Gallery has been painted green, with great advantage to the display of the specimens.

Attention may also be directed to the mounting of the almost unique male and female skulls of the Great Assam Buffalo (*Bos bubalis macroceros*) in a conspicuous position at the West end of the Lower Mammal Gallery.

In the British Saloon much preliminary work has been accomplished in regard to the preparation of a series of groups of Mammals; of these a group of Otters has already been installed, and one of Water-Rats will shortly be ready for exhibition. The large Mammal case has been painted green.

General conservation, rewriting and printing of labels, when required owing to the progress of Zoology, have been carried on as usual.

Among the additions, noticed below, special attention may be directed to the following, viz., a statuette, modelled by

Captain Adrian Jones, of H.M. the King's Racehorse "Persimmon," presented by H.R.H. the Prince of Wales; a statuette, also modelled by Capt. A. Jones, of the Racehorse "Zinfandel," presented by Lord Howard de Walden, the owner; the skull of "Ormonde"; a Hippopotamus, presented by Rowland Ward, Esq.; and mounted specimens of the Tibetan Takin (*Budorcas taxicolor tibetanus*) and the White-maned Serow Antelope (*Nemorhædus argyrochætes*).

The more notable additions to the exhibited series include the following:—

PRIMATES:—Andamanese skeletons; photographs of Pigmies; photograph of *Simia satyrus*; *Cercocebus collaris*, *C. albigena*. CARNIVORA:—*Cyon deccanensis*, *Canis pam-basileus*, presented by F. C. Selous, Esq.; *Lutra vulgaris* (group); *Halichærus gryphus*, presented by J. G. Millais, Esq. UNGULATA:—*Budorcas taxicolor tibetanus*, *Nemorhædus argyrochætes*, *Ovis fannini*, presented by Prince Colloredo Mansfeld; *Ovis stonei*, presented by D. T. Hanbury, Esq.; *Raphicerus sharpei*; *Cervus duvauceli*; *Hippopotamus amphibius*. RODENTIA:—*Pentalagus furnessi*, presented by the Duke of Bedford, K.G.

DOMESTICATED ANIMALS:—Fox Terrier "Donna Fortuna"; Japanese Spaniel; Blenheim Spaniel pup; King Charles Spaniel; Collie Dog, "Roy"; Pointer; skeleton of the Shire Stallion, "Blaisdon Conqueror," presented by the owner, the late P. Stubbs, Esq.; skeleton of the Shire Stallion "Prince William," presented by the owner, Lady Wantage; skull and limb-bones of the Thoroughbred Stallion "Ormonde," presented by W. O. B. Macdonough, Esq., the owner; statuette of H.M. the King's Thoroughbred Stallion "Persimmon"; statuette of Lord Howard de Walden's Thoroughbred Stallion "Zinfandel"; Hunia Fighting Ram; Cameroon Maned Sheep.

The series of skulls of dogs has been arranged in a new case; and the case to illustrate the origin of the horse and the ancestry of its breeds has been installed

In the study series the work of registering, labelling, and incorporating specimens has been continued. Three store cabinets have been added for the reception of skins of Mammals of about the size of a fox. Many of the skins acquired in earlier times have been re-made, where possible, thus rendering them fit for comparison with modern material.

The Department is again indebted for much valuable assistance in dealing with its acquisitions to voluntary helpers, of whom should be specially mentioned Dr. Forsyth-Major, Mr. J. L. Bonhote, Mr. Harold Schwann, and Capt. G. E. H. Barrett-Hamilton.

By the assistance of a private donor the services of Dr. Knud Andersen have been continued in working out and re-labelling the collection of Chiroptera.

Aves.—Considerable progress has been made with the re-mounting of the British Birds for the pier-cases in the Pavilion, and among the series in the General Gallery progress has also been made.

Descriptive printed labels have been placed in all the cases containing the nesting series of British Birds, and framed tablets showing the classification adopted, have been placed at intervals in the Gallery.

Progress has been made with the Osteological Collection, and a large number of eggs of species included in Volume V. have been incorporated.

The arrangement and cataloguing of the skeletons of the *Tracheophone Passeres*, *Pteroptochidæ*, *Conopophagidæ*, *Formicariidæ*, and *Dendrocolaptidæ* have been proceeded with.

The collection of birds in spirits has also been overhauled, but cannot be properly arranged until better accommodation has been provided.

A case illustrative of the parasitic habit in birds has been installed in the North Hall, near by the one containing eggs of the Common Cuckoo. In the same neighbourhood have been placed photographs illustrating the manner in which young Cuckoos eject the rightful occupants of the nest they usurp; and also a label describing the nesting habits of Cuckoos.

Reptilia and *Batrachia.*—The Exhibition Cases in the Reptile Gallery are all now provisionally arranged, but much remains to be done in the matter of filling up gaps. The most important work that has been done during the year is the painting of the mounted specimens of Monitor and other Lizards and Snakes to imitate, so far as possible, their colouring during life. This work, which is far from being complete, has been done entirely by a member of the staff of the Museum.

The work of renewing the spirit in the bottles has been continued. The incorporation of accessions has been proceeded with as far as possible. The removal of the Bactrachians to the new cases provided has been commenced.

The numerous additions to the Collection have been named and incorporated as soon as received.

Pisces.—Much progress has been made in the Southern half of the Fish Gallery, and it is now re-opened to the public. The preparation of the specimens and their re-arrangement in the cases are nearly completed, and temporary labels have been introduced into six of the ten wall cases. The Northern half of the Gallery has been partitioned off, since this part will not be ready for the admission of the public for some time longer.

Mollusca.—The interesting collection of Mollusca obtained by the "Discovery" in the Antarctic Region has been worked

out and reported upon, and the specimens collected by the same expedition at the Auckland Islands have been named. A collection made in Tierra del Fuego by Captain Richard Crawshay has also been worked out and a report published. The Mollusca obtained by Mr. W. A. Cunnington in the great lakes of Central Africa have been determined and described, and a report has been prepared, bringing up to date the catalogue of the South African fauna. The working out of an important series of deep-sea forms obtained by H.M. Indian Marine Survey Steamer "Investigator" has been commenced.

Part of the collection of *Rissoida* has been mounted in glass-topped boxes, and the whole of the exhibited series of *Chitonida* has been remounted on new tablets, provided with printed labels, and arranged in accordance with Prof. Pilsbry's Monograph. The numerous accessions have been mounted and incorporated, a suitable selection being placed on exhibition in the table-cases.

Arachnida and *Myriopoda*.—Among the accessions dealt with during the year was the major portion of the Godman Collection of Spiders from Central America, numbering nearly four thousand specimens. The bottling, labelling and registering of this large collection occupied some considerable time. As it has not been found possible to incorporate it in the general collection, it has been temporarily arranged in a cupboard in the Spirit building. The spirit collections of Scorpions, Pedipalpi, Solifugæ and Mygalomorphous Spiders have been completely re-arranged, and a manuscript index to the genera has been prepared. The collection of *Ixodidae* consisting mainly of unidentified material, was sent to Prof. Neumann, of Toulouse, for study, and has been returned by him after determining the species. The collection of Pseudoscorpions is in the hands of Mr. C. J. With, of Copenhagen, for study.

Insecta.—Series of specimens and drawings of moths, gnats and midges have been in course of preparation for exhibition in the Insect Gallery.

With a view of showing extremely small objects, a specially constructed microscope has been placed in the Insect Gallery, exhibiting some minute Hymenoptera, which are parasites on the eggs of other insects. Specimens are placed in the microscope, and enlarged drawings with an explanatory label are placed above it. It has been appreciated by numerous visitors and has so far been fairly used.

A considerable number of Coleoptera of the family *Nitidulidae*, which were sent to M. Grouvelle to be named, have been returned and re-incorporated. The collection of *Corylophidae* formed by the late Rev. A. Matthews, recently acquired, has been incorporated. A fresh arrangement of

the *Passalidæ* has been completed. The arrangement of the *Elateridæ* has been completed to the end of the *Monocrepidinae*. The *Eucnemidæ* have been extended to enable accessions to be incorporated. Some progress has been made in the incorporation of the Kerremans' Collection of *Buprestidæ*.

The collection of *Cassididæ* formed by the late J. S. Baly, acquired in the early part of the year, has been incorporated.

The bequest of the large collection of Coleoptera, formed by the late Mr. A. Fry, has necessitated considerable extension of some parts of the collection. The *Cetoniidæ* have been completely re-arranged, advantage being taken to incorporate at the same time accessions from other sources. A very large number of *Longicornia* have also been incorporated, as well as specimens belonging to other families. As the cabinets have, in accordance with the bequest, to be emptied within twelve months after the receipt of the collection, and as it will be impossible to incorporate all the specimens within this period, the contents of some of the drawers are being transferred as they stand to Museum cabinets. To the end of December 1905, 27,500 specimens had been labelled, and either incorporated or transferred.

The preparation of the Catalogue of Orthoptera has been proceeded with. The manuscript containing the *Gryllidæ* has been completed and sent to press, and the *Phasgonuridæ* will soon be finished.

The arrangement of the *Homoptera* of the family *Cicadidæ* has been completed, and the *Fulgoridæ* have been begun.

The Lepidoptera of the family *Danainæ* have now been completely transferred and re-arranged in the new cabinets, and the *Ithomianæ* in part similarly treated. Several large Nymphaline genera, such as *Charaxes* and *Doleschalia*, have been re-arranged in the new cabinets, and a portion of the Hewitson *Pierinæ* incorporated with the general collection.

The Nymphaline genera, *Rathinda* and *Neptis*, have been arranged by Colonel Bingham; and the *Pieridæ*, of the genus *Cotias*, the holarctic *Pieridæ* and the genus *Parnassius*, by Mr. H. J. Elwes.

The fifth volume of the "Catalogue of Lepidoptera Phalænæ" has been published, and the manuscript of the sixth volume, containing the *Cucullianæ* nearly completed. The *Noctuidæ* of the sub-families *Eutelianæ*, *Stictopterinae*, *Sarrothriphinae* and *Acontianæ* have been arranged, and *Catocalinæ* nearly completed. New species in these families

have been described. Part of the *Geometridæ* of the sub-family *Boarmianæ* has been arranged, and the Godman and Salvin Collection and other accessions incorporated.

The arrangement of the collection of British Lepidoptera has been continued and will shortly be completed.

Some progress has been made in the re-arrangement of the Diptera of the family *Muscidæ*. Numerous accessions from various sources have been incorporated, including a considerable number of Mosquitoes (*Culicidæ*) and a series of types of species from New Zealand described by Captain Hutton. A large number of type specimens of *Tachininae*, *Dexiinae*, and *Sarcophaginae*, described by F. Walker, have been examined with a view to ascertain to what modern genera the species should be referred, and they have been labelled and transferred to their proper places in the collection. The Walkerian types of *Evaza*, *Salduba*, *Trichochæta* and allied genera (*Stratiomyidæ*) have been studied, and assigned to their proper systematic positions.

The determination and re-arrangement of the *Tabanidæ* have been continued by Miss Ricardo.

The British Diptera of the genera *Simulium* and *Varichæta* (*Erigone*) have been determined, labelled, and arranged.

Considerable time has been occupied in attending to correspondence respecting Blood-sucking Flies, and in determining specimens sent for that purpose, chiefly by medical men from various parts of the world, including India, Indo-China, Egypt, Sudan, British Central Africa, and other localities.

Crustacea.—The arrangement of the cases of Crustacea in the Insect Gallery has been continued. A considerable number of additional specimens have been prepared and coloured, completing the systematic series of the Brachyura, and descriptive labels have been prepared. The whole of the dry collection, with the exception of the Cirripedia, has now been arranged in the new cabinets in the Crustacea Room, and manuscript indices to the spirit and dry collections have been prepared. Work on the Cumacea has been continued, and reports on collections from Ireland and from the Dutch East Indies have been published. Reports have been prepared and are now in the press on the collection obtained by the "Discovery" Expedition, and on that of the "Puritan" Expedition near Naples. The Decapoda of the "Discovery" have been studied, and assistance has been given to Mr. A. O. Walker in working out the Amphipoda of the same collection. Mr. Stanley W. Kemp has revised the deep-sea prawns of the genus *Acantheephyra* in the Museum Collection.

*Prototracheata**.—The few specimens received during the year were submitted to Prof. Bouvier, of whose long promised Monograph the first part has been published.†

*Echinoderma**.—Very interesting specimens of *Toxopneustes variegatus*, showing the products of the gonads emerging from their orifices, have been mounted in spirit; a fine example of *Strongylocentrotus franciscanus* has been mounted in a special case. The new species of Asteroidea described since 1893, and the specimens of the class which have been added to the collection during the last ten years, have been entered in the MSS. Catalogue of that group.

*Vermes**.—The unnamed specimens in the Beddard Collection (reported last year) were returned to Mr. Beddard, who has determined them; on their return they were re-spirited, bottled and registered; his collection of 1,200 slides, which were not in very good order when received late last year, has been cleaned, re-arranged, and a type-written list of the genera, with their register numbers, has been placed in each slide box. The whole Beddard Collection has been entered in an interleaved copy of Dr. Michaelson's "Oligochæta," which will be of great assistance to students.

*Anthozoa**.—A case containing an introductory series of Corals and an exhibition of the species found in the British Seas has been partly set out; the recent discovery of several forms new to our seas necessitates waiting for examples of these to complete the series. Volume V. of the Catalogue of Corals, containing an account of the Indo-Pacific species of the genus *Porites*, has been published; the account of the Atlantic species is still in MSS., but a large number of the illustrations have been printed. The re-velveting of the exhibition cases has been completed, and the specimens re-arranged; a fine example of Venus' Fan (*Pterogorgia flabellum*) has been mounted, as well as some very interesting examples of *Turbinaria*, which show the mortal influence of deposits of mud on calyciform corals. A fine photograph of living Dead Men's Fingers (*Alcyonium digitatum*) has been prepared from a photo lent by the Horniman Museum. All the label names of the exhibited sea-anemones are now protected from dirt by glass covers. Two large cases for exhibiting Gorgonellids are being made.

* The time of the Assistant in charge of these groups has been largely devoted to the "Discovery" Collection.

† The opinion of a fellow-worker from the Jardin des Plantes may be worth transcribing, M. Bouvier says:—

"Les collections du Musée britannique, plus riches que toutes autres en individus et en espèces, et où se trouvent réunis des matériaux si généralement précieux, depuis l'exemplaire de Sloane (le premier connu du groupe) jusqu'à ceux examinés ou apportés récemment par MM. Sedgwick, Pocock, Willey, Dendy et Evans."

The cupboards mentioned in last year's report have been stocked with all the specimens that have as yet been catalogued; and they can now be consulted or examined without any loss of time to the student.

Polyzoa, Porifera, Protozoa.—The working out of the large collection of Sponges brought home by the "Discovery" from the Antarctic has been commenced. The Report on the Hexactinellida (with 7 quarto plates) has been completed, and that on the Tetractinellida (with 4 quarto plates) is now nearly ready; also numerous preparations of the Monaxonida have been made.

The spirit collection of Sponges has been removed from the high cupboards in which it was stored, and arranged in low cupboards in the Spirit building, the position of the genera on the shelves being indicated on label cards.

The large collection of material, including MS. notes and drawings, constituting a final instalment of the Busk Collection, has been arranged so as to be available for reference, and has been found of much use by students working at the collection of Polyzoa.

The micro-slide preparations of Protozoa (mostly Foraminifera), Sponges, and Hydrozoa, contained in 216 boxes, and numbering over 11,000, have been put in order.

A collection, comprising 15 specimens of Freshwater-Sponges from Lakes Victoria, Tanganyika, and Nyassa, collected by Mr. Cunnington, has been worked out, and is in course of being reported upon.

At the request of the India Office, a short report has been drawn up on the Persian Gulf as a possible area for successful Sponge Fisheries.

The exhibit in the case containing a series of specimens and diagrams, illustrative of the structure of Sponges, was damaged by rain coming in through the roof. Considerable time was involved in repairing the damage done to these exhibits.

II.—*Duplicates and Exchanges.*

Duplicates have been presented to the Technical Education Board of the London County Council; St. Paul's School Field Club Museum, Hammersmith; the Wimbledon Technical Institute; the Sir John Cass Technical Institute; Eton College; the Campden School of Arts and Crafts, Chipping Campden, Gloucestershire; M. H. d'Orbigny; Herr R. Püngeler; Dr. William Barnes; Prof. Y. Sjöstedt; and M. A. Régimbart.

Exchanges have been effected with Mr. J. H. Fleming, Dr. Moreno, Mr. William Cross, and the Bromley Natural History Society; Prof. Joseph Gillett, Mr. I. T. Kaye, Mr. F. N. Nunenmacher, Prof. Y. Sjöstedt, M. René Oberthür, Commander J. J. Walker, R.N., Prof. Hauser, Dr. A. H. Heath, Dr. M. Cameron, Dr. M. A. Régimbart, Mr. Malcolm Burr.

A Polar Bear has been sent, through Mr. W. Foster, to the Agricultural College of Asuncion, Paraguay, in exchange for a number of small mammals.

III.—*Departmental Library.*

One hundred and eighty-seven separate works in 362 volumes, new to the Library, and 1945 parts of periodicals and works in progress have been acquired during the year by purchase, presentation, and exchange. Some of these formed part of the Library of the late Alexander Fry, and were received from his executors, together with his collection of Insects. Altogether, 154 works, represented by 611 volumes, and 686 parts and extracts, were comprised in the Fry bequest. Three hundred and eight books have been bound. The Library now contains 10,910 separate works in 17,062 volumes. A collection of 278 folios of water-colour drawings of Japanese Fishes has been presented by Mrs. Stoddart, and four volumes of pencil drawings of Fishes of the Rio Negro have been presented by Dr. Alfred Russel Wallace. They were made by him during his travels in South America about 50 years ago. The former collection was made by Mr. Stoddart during his residence in Nagasaki. The drawings were prepared by Japanese artists, and are of interest as representing the fish-fauna of that part of Japan, and being coloured from living or freshly caught specimens, they will prove a valuable aid to ichthyologists who may engage in the study of the Japanese fish-fauna.

Some of Dr. Wallace's drawings represent species as yet undescribed, and serve to show the incompleteness of our knowledge of the fishes of the Amazon and its tributaries. This interesting series has been named, as far as possible, by Mr. C. T. Regan.

IV.—*Publications.*

In addition to the Catalogues and other works published by the Trustees, already mentioned, the following reports or descriptive papers, based on specimens in the Collection, have been prepared and published in scientific journals:—

Mammalia.—"On Mammals and Birds from Japan"; "On a new Golden Mole from Cape Colony"; "A new *Cricetulus* from Mongolia"; "The Nomenclature of the Cranial Measurements"; "On Mammals from the Island of Fernando Po"; "On a New Bush-Buck from British East Africa"; "On some Australasian Mammals"; "A new Genus and two new Species of Bats"; "On a new Gazelle from Palestine"; "On *Hylochærus*, the Forest Pig of Central Africa"; "On some new Japanese Mammals"; "On new Neotropical *Molossus*, *Conepatus*, &c."; "On a remarkable new Squirrel from Burma"; "New Ground-Squirrels of the *Xerus erythropus* Group"; "New African Mammals of the Genera

Glauconycteris, *Lutra*, *Funisciurus*, *Arvicanthis*, &c.; by Oldfield Thomas; "List of the Mammals obtained in Zululand during the Rudd Exploration of South Africa"; "List of the Mammals obtained from the Wakkerstroom District, South-Eastern Transvaal, during the Rudd Exploration of South Africa," by Oldfield Thomas and Harold Schwann; "On a Second collection of Mammals obtained by Dr. W. J. Ansorge in Angola," by Oldfield Thomas and R. C. Wroughton.

"Notes on the various Forms of *Arvicanthis pumilio*"; "The Common Striped Palm-Squirrel," by R. C. Wroughton.

"On a new Vole from Kashmir"; "On the Mouse-Hares of the Genus *Ochotona*," by J. Lewis Bonhote. "On the Bats of the *Rhinolophus arcuatus* Group, with Descriptions of Five New Forms"; "On some Bats of the Genus *Rhinolophus*, and Descriptions of twenty-six New Forms"; "On *Hipposiderus diadema* and its closest Allies"; "A List of the Species and Sub-species of the Genus *Rhinolophus*, with some Notes on their Geographical Distribution," by Knud Anderson.

"The Bonin Island Sambar"; "On Dolphins from Travancore"; "On the Nigerian and Kilimanjaro Giraffes"; "The Gorals of India and Burma"; "An undescribed Guereza"; "Local Variation in the Giraffe," by R. Lydekker.

"Notes on the Mammals of Southern Cameroons and the Benito," by George L. Bates.

Aves.—"On further collections of Birds from the Efulen District of Cameroons, West Africa (Part III.); "Notes on Mr. Robin Kemp's paper on the "Birds of the South-Eastern part of the Protectorate of Sierra Leone," by R. Bowdler Sharpe.

"On the Birds collected by the late W. G. Doggett on the Anglo-German frontier of Uganda"; "On the display of the Lesser Bird-of-Paradise"; "On the Birds procured by the Earl of Ranfurley in New Zealand and the adjacent Islands"; "On the Birds of the Azores; Fasciculi Malayensis; Report on the Birds"; "On a new species of Tree-Partridge from the Mountains of the Malay Peninsula"; "On a new sub-species of Scimitar-Babbler"; "On a new species of Whistling-Thrush"; "On two Fly-catchers of the genus *Pseudogerygone*"; "On the species of the genus *Acanthidositta*"; "On a new Shrike from S. Arabia"; "On a new species of Weka Rail." "On five new species of birds, procured by Mr. Walter Goodfellow in South-East Mindanao," by W. R. Ogilvie-Grant.

"On the systematic position of *Zeledonia coronata*"; "On the Pterylography and Dermal Myology of the Lesser Bird-of-Paradise"; "Some points in the Anatomy of *Acanthidositta chloris*"; "Contribution to the Osteology of Birds (Part VII.), *Eurylæmidæ*," by W. P. Pycraft.

Reptilia and *Batrachia*.—"A contribution to our knowledge of the varieties of the Wall-Lizard (*Lacerta muralis*) in Western Europe and North Africa"; "On a new variety of

the Wall-Lizard"; "An Account of the Reptiles and Batrachians collected by Mr. F. G. Riegenbach in the Atlas of Morocco"; "On the *Lacerta depressa* of Camerano"; "Description of a new Newt from Yunnan"; "Descriptions of new Reptiles discovered in Mexico by Dr. H. Gadow"; "On a Collection of Batrachians and Reptiles made in South Africa by Mr. C. H. B. Grant, and presented to the British Museum by Mr. C. D. Rudd"; "On some Batrachians and Reptiles from Tibet"; "Description of a new Snake from Venezuela"; "Description of a new Batrachian of the genus *Bombinator* from Yunnan"; "Descriptions of new West African Frogs of the genera *Petropedetes* and *Bulua*"; "Description of a new Snake of the genus *Atractaspis* from Mount Kenya"; "Descriptions of new Snakes in the Collection of the British Museum"; "Descriptions of three new Snakes discovered in South Arabia by Mr. G. W. Bury"; "A list of Batrachians and Reptiles collected by Dr. W. J. Ansorge in Angola, with Descriptions of new species"; "Descriptions of new Tailless Batrachians in the Collection of the British Museum"; "On remarkable Specimens of *Rana esculenta* from South-Western Persia"; "On the habitat of *Rana blanfordii*"; "Description of a new *Ixalus* from Selangor," by G. A. Boulenger.

Pisces.—"The Distribution of African Fresh-water Fishes (Presidential Address to Zoological Section, British Association, S. Africa)"; "A list of the Fresh-water Fishes of Africa"; "On a second Collection of Fishes made by Mr. S. L. Hinde in the Kenya district"; "On Fishes from Lake Chad"; "Descriptions of four new Fresh-water Fishes discovered by Dr. W. J. Ansorge in Angola"; "On a British specimen of the Great Sea-Perch *Epinephelus cernioides*"; "Description of a new Mormyrid Fish from the White Nile"; "Description of a new Fish from the Zambesi"; "Another new *Barbus* from Morocco"; "On a small collection of Fishes from the Kassai River (Congo); "On a Collection of Fishes from Lake Bangwelu," by G. A. Boulenger.

"On a Collection of Fishes made by Dr. H. Gadow in Southern Mexico"; "Descriptions of two new Cyprinid Fishes from Tibet"; "Note on *Hexanchus griseus*"; "A Collection of Fishes made by Mr. R. Gordon Smith in the Inland Sea of Japan"; "Descriptions of three new Fishes from Japan, collected by Mr. R. Gordon Smith"; "The systematic Arrangement of the Fishes of the genus *Arges*"; "Descriptions of five new Cyprinid Fishes from Lhasa, Tibet, collected by Captain H. J. Walton, I.M.S."; "A Synopsis of the species of the Silurid genera *Parexostoma*, *Chimarrhichthys*, and *Exostoma*"; "Description of a new Fish of the genus *Dentex*, from the Coast of Angola"; "On Fishes from the Persian Gulf, the Sea of Oman, and Karachi, collected by Mr. F. W. Townsend"; "Description of a new Loricariid Fish of the genus *Xenocara* from Venezuela"; "On Drawings of Fishes of the Rio Negro";

"Description of *Acara subocularis*, Cope"; "A Revision of the Fishes of the American Cichlid genus *Cichlosoma*, and of the allied genera"; "A Revision of the Fishes of the South-American Cichlid genera *Acara*, *Nannacara*, *Acaropsis*, and *Astronotus*"; "A Revision of the Fishes of the South-America Cichlid genera *Crenacara*, *Batrachops* and *Crenicichla*," by C. Tate Regan.

Mollusca.—"Description of new species of *Vitrea* from Greece"; "On a small collection of Mollusca from Tierra del Fuego"; "Descriptions of three new species of *Opisthostoma* from Sarawak, North Borneo"; "Description of a new species of *Opisthostoma* from North Borneo"; "A correction in nomenclature"; "Descriptions of new species of Land-shells from British New Guinea, and remarks on two species from the Solomon Islands"; "Description of a new Land-shell from Christmas Island," by E. A. Smith.

Insecta.—"Three new Coleoptera from E. Africa belonging to the *Lucanidæ* and *Cetoniidæ*"; "Observations on Coleoptera of the family *Buprestidæ*, with descriptions of new species"; "Notes on British *Culicidæ*," by C. O. Waterhouse.

"On some Oriental Aphodiid Coleoptera of the *Rhyapatrus* Group, with description of a new Genus," by Gilbert J. Arrow.

"List of a collection of Neuroptera Odonata (Dragonflies), formed by G. A. K. Marshall, Esq., at Salisbury, Mashonaland, with descriptions of a new genus and two new species"; "List of a small collection of Odonata (Dragonflies) from Ceylon, collected by Mr. E. Ernest Green, with Notes on the genus *Zygonidia* and its allies, and descriptions of new species of *Zygonidia* (Kirby) and *Onychothemis* (Brauer), from Ceylon and Tonkin"; "Description of a new species of *Paloplius* (*Phasmidæ*) from West Africa," by W. F. Kirby.

"Two additional British species of the Dipterous Genus *Erigone* (Rob-Desv.)"; "A Dipterous Enemy of English Hot-house Grapes"; "A new sub-species of *Glossina palpalis* (Rob-Desv.), the Disseminator of Sleeping Sickness"; "A Provisional List of Diptera, &c., forwarded from Uganda by Lieut.-Colonel Bruce during the Investigations of the Sleeping Sickness Commission"; "The Distribution of the Tsetse-Flies (genus *Glossina*, Wiedemann) as at present known, with Map," by E. E. Austen.

"The Moths of S. Africa, Part III.,"; "The Moths of India. Supplementary paper to the volumes in 'The Fauna of British India,' Parts 1-3"; "Descriptions of new Genera and Species of *Syntomidæ*, *Arctiadæ*, *Agaristidæ*, and *Noctuidæ*"; "Descriptions of New *Noctuidæ* in the British Museum," Parts 1-3, by Sir G. Hampson.

"Rhynchotal Notes.—xxxix.—xxxvii., by W. L. Distant.

"Report on the Aculeate Hymenoptera, collected by N. Annandale and H. C. Robinson in Perak, &c.," by Lieut.-Col. C. T. Bingham.

Crustacea.—"Note on a genus of Euphausiid Crustacea"; "Cumacea of the West Coast of Ireland"; "Cumacea of the Siboga Expedition"; "On a new species of River-Crab from Yunnan," by W. T. Calman.

In addition to these, papers based wholly or in part on material in the Museum Collection have been published during the year by E. W. L. Holt, Esq., W. M. Tattersall, B.Sc., Dr. H. J. Hansen, and Canon A. M. Norman, F.R.S.

Prototracheata.—Part I. of Prof. Bouvier's "Monographie des Onychophores" has been published in *Ann. Sci. nat. Zool.* ii. (1905), and is to be continued shortly: in the preparation of this memoir the author has had the advantage of studying the fine collection made by the Museum during the last thirty years.

Echinoderma.—"Marine Investigations in S. Africa. Echinoderma, parts ii.-iv. (Asteroids, Ophiuroids, and Crinoids)," by F. Jeffrey Bell.

The following was based on material supplied for the Museum: "Some observations on the development of an Asterid with large yolky eggs from the Franklin Islands," by E. H. Henderson.

V.—Acquisitions.

		Donations.	Purchases.	Exchanges.	Total.
Mammalia	{ Wild - - - -	1,439	1,343	20	2,802
	{ Domesticated - - -	24	3	—	27
Aves	- - - - -	9,722	4,021	91	13,834
Reptilia	- - - - -	589	507	114	1,210
Batrachia	- - - - -	256	141	9	406
Pisces	- - - - -	749	1,366	1,067	3,182
Mollusca	- - - - -	1,550	1,078	—	2,628
Arachnida	{ Godman Collection - -	3,811	—	—	} 4,962
	{ Other sources - - -	140	1,011	—	
Myriopoda	- - - - -	79	177	—	256
Insecta	{ Fry Collection - - -	150,000	—	—	} 214,370
	{ Godman Collection - -	14,426	—	—	
	{ Sharp Collection - - -	—	22,000	—	
	{ Other sources - - -	22,479	4,192	1,273	
Crustacea	- - - - -	1,270	108	—	1,378
Prototracheata	- - - - -	—	10	—	10
Echinoderma	- - - - -	265	15	5	285
Vermes	- - - - -	39	406	2	447
Brachipoda	- - - - -	11	2	—	13
Anthozoa	- - - - -	28	65	—	93
Tunicata	- - - - -	19	—	—	19
Polyzoa	- - - - -	53	—	—	53
Hydrozoa	- - - - -	26	—	—	26
Porifera	- - - - -	70	8	—	78
Protozoa	- - - - -	9	—	—	9
Totals	- - - - -	207,054	36,453	2,581	246,088

Mammalia.—The accessions number two thousand and twenty-nine.

Those most worthy of note are the following :—

Eight hundred small mammals, mostly bats, from the collection of the late Mr. R. F. Tomes, and including about 40 types of species described by himself and other naturalists; purchased.

Four Mammals from the Orkney Islands, two seals from the Shetlands, and the type of *Mus rattus ater*, a London specimen; presented by J. G. Millais, Esq.

Sixteen Mammals from Haute-Savoie; presented by M. A. Robert.

Forty-three Mammals from Haute-Savoie; presented by Oldfield Thomas, Esq.

One hundred and forty Mammals from Japan, including the type of *Petaurista leucogenys nikkonis*; presented by R. Gordon Smith, Esq.

Thirteen Mammals from Kashmir, including the type of *Microtus imitator*; presented by Col. A. E. Ward.

Ten Mammals from N.E. Mongolia, including the type of *Cricetulus campbelli*; presented by C. W. Campbell, Esq., C.M.G.

Twenty-four Mammals from Sarawak; presented by H. C. Robinson, Esq.

Thirty-three Mammals from Japan, the Philippines and Loo Choo Islands, including the type of *Mustela melampus bedfordi*, being the first results of the important exploration of Eastern Asia now being conducted by Mr. M. P. Anderson; presented by the Duke of Bedford, K.G.

Three Mammals from Tibet: presented by Lieut.-Col. L. A. Waddell.

Eleven Mammals from Tibet, including the types of *Cricetulus lama* and *Microtus waltoni*, collected by Capt. H. J. Walton, I.M.S.; presented by the Tibet Frontier Commission.

Fifty-eight Mammals from Thian Shan; presented by A. B. Bayley Worthington, Esq.

Thirteen Mammals from Fokien, China; presented by J. de La Touche, Esq.

Sixty-eight Mammals from Persia, including the types of *Calomyscus bailwardi*, *Pipistrellus aladdin* and *Ellobius woosnami*, collected by R. B. Woosnam, Esq.; presented by Col. A. C. Bailward.

Eighty-three Mammals from the Malay Peninsula, including the type of *Mus klossi*; presented by C. Boden Kloss, Esq.

Four Mammals from Angola and two from the Gaboon and Cameroons; presented by the Hon. W. Rothschild, M.P.

Twenty-one Mammals from N. Nyasa Land; presented by Sir Alfred Sharpe.

Three skeletons of natives of the Andaman islands ; purchased.

Thirty-two Mammals from Berbera, Somaliland ; presented by R. E. Drake-Brockman, Esq.

Two hundred and sixty Mammals from N.E. Transvaal, Zululand and Natal, including the types of *Amblysomus corriæ*, *Miniopterus fraterculus*, *Georychus talpoides* and *Raphicerus sharpei colonicus*, collected by Mr. C. H. B. Grant ; presented by C. D. Rudd, Esq.

Forty Mammals from Uganda, collected during the delimitation of the Anglo-German Boundary ; presented by Col. C. Delmé Radcliffe.

Four skulls from Liberia ; presented by Sir Harry Johnston, K.C.B.

Fourteen Mammals from Natal ; presented by C. W. Turner, Esq.

Eighty-three Mammals from Angola, collected by Dr. Ansonge, including the types of *Herpestes gracilis bocagei* and *Georychus ansongei* ; purchased.

Sixteen Mammals from N. Nigeria ; presented by Dr. H. K. D. Kumm.

Twenty-seven Mammals from the Cameroons ; purchased.

A fine mounted Hippopotamus from the Zambesi ; presented by Rowland Ward, Esq.

Seventeen Mammals from British East Africa ; presented by Mrs. S. L. Hinde.

Six Mammals from the Bahr-el-Ghazal ; presented by Major H. Bray, R.A.M.C.

The head of an African Elephant ; presented by H. S. H. Cavendish, Esq.

Two Mammals from N.E. Rhodesia, both types (*Georychus mellandi* and *Heliophobius robustus*) ; presented by F. H. Melland, Esq.

Four Mammals from N. Australia and eight from S.E. Australia, including the type of *Petrogale hacketti* ; presented by the Perth Museum, through Dr. B. H. Woodward.

Seven Mammals from S. Australia, including the type of *Phascogale hillieri* ; presented by H. J. Hillier, Esq.

A mounted seal from California ; presented by the Hon. W. Rothschild, M.P.

Eight Mammals from Para, including the type of *Proechimys goeldii*, and two other typical specimens ; presented by Dr. Goeldi.

Five Mammals from Tierra del Fuego ; presented by Capt. R. Crawshay.

Thirteen Mammals from Cayenne, including the type of *Molossus barnesi*, presented by W. Barnes, Esq.

Eight Mammals from Paraguay ; received in exchange.

Five Mammals from Santiago ; presented by J. A. Wolffsohn, Esq.

Six Mammals from Venezeula, collected by Sr. S. Briceño, and seven from Chiriqui, collected by Mr. H. J. Watson ; presented by Oldfield Thomas, Esq.

Aves.—The accessions totalled thirteen thousand eight hundred and thirty four, of which the following deserve special notice :—

One hundred and nine Birds from the West Indies ; presented by D. A. Bannerman, Esq.

One hundred and sixty-two Birds from British Central Africa ; presented by Sir Alfred Sharpe, K.C.B.

Fifty-two Birds from South-West Australia, including five species new to the collection ; presented by Dr. Bernard Woodward.

Forty Birds from the Azores ; presented by the Ponta Delgada Museum.

Seven hundred and forty-five Birds from Dr. Sclater's Collection ; purchased.

Forty-five Birds from the Belgian Congo ; presented by Colonel J. J. Harrison.

Ninety-eight eggs from Australia ; presented A. J. North, Esq.

Sixty-four Birds from Wales and Ireland ; presented by W. R. Ogilvie-Grant, Esq.

One thousand, two hundred and seventy-nine Birds and eight hundred and sixty-eight eggs, from Egypt, &c. ; bequeathed by the late Mr. Edward Cavendish Taylor.

Three hundred and twenty-two Birds from Japan ; presented by His Grace the Duke of Bedford, K.G.

Three hundred and thirty-five Birds from the Kauri Kachin district, and one thousand two hundred and sixty Birds from Mount Victoria, Chin Hills ; presented by Lieut.-Colonel Rippon.

Seventy-two Birds from Tian Shan Mountains ; presented by A. B. Bayley Worthington, Esq.

Four hundred and seventeen eggs from British East Africa and Uganda ; purchased.

Two hundred and eight Birds from the Chindwin Hills ; presented by Capt. A. Mears.

Eighty-eight Birds from the Syrian Desert, collected by Mr. D. Carruthers ; purchased.

Nine hundred and six Birds and seven hundred and forty-five eggs from Paraguay, collected by W. Foster ; purchased.

Nine hundred and fifty-four mounted Birds from various localities ; presented by Lord Tweedmouth.

Four hundred and sixteen Birds from S. Tibet ; presented by Capt. H. J. Walton, I.M.S.

Two hundred and thirty-two Birds from Benguela, collected by Dr. W. J. Ansorge; purchased.

Two hundred and thirty-six Birds from Apo Volcano, Mindanao, Philippines, including the types of seven new species and nineteen species new to the collection, collected by Mr. W. Goodfellow; purchased.

Four hundred and fifty Birds from the Wagga Mountains, Somali Land, collected by Mr. G. W. Bury; purchased.

Four hundred and fifty Birds, mostly from the Canary Islands; presented by E. G. B. Meade Waldo.

Three hundred and seventy-four Birds from S.W. Australia, collected by T. Shortridge; presented by W. E. Balston, Esq.

Three hundred and ninety-six Birds from Persia, collected by R. B. Woosnam; presented by Col. Bailward.

Three hundred and twenty-six Birds from Cameroons, West Africa, collected by Mr. G. L. Bates; purchased.

Eighteen Silver Pheasants from Upper Burma; received in exchange from the Bombay Natural History Society.

Reptilia.—The accessions number one thousand two hundred and ten, five hundred and eighty-nine by presentation, five hundred and seven by purchase, and one hundred and fourteen received in exchange. The most important are:—

Thirty-three examples of the Wall-Lizard (*Lacerta muralis*) representing several varieties from Spain; received from the Madrid Museum.

One of the types of *Lacerta muralis*, var. *breviceps*, from Italy; presented by Prof. Monticelli.

A melanistic variety of the Wall-Lizard (*Lacerta muralis*) from near Florence; presented by Dr. A. Banchi.

Twenty specimens from Styria; received from Herr G. Marktanner-Turneretscher.

Thirty-five specimens from Roumania; purchased.

Forty-five specimens from Morocco, including examples of a Lizard new to the collection (*Gymnodactylus trachyblepharus*), collected by Herr F. W. Riegenbach; purchased.

Forty-one specimens from Angola, including the type of a new Snake (*Psammophis ansorgii*), and specimens of two Snakes new to the collection (*Aparallactus bocagii*), collected by Dr. W. J. Ansorge; purchased.

A rare Lizard (*Rhoptropus afer*) from Angola; presented by R. J. Cuninghame, Esq.

A rare Lizard (*Psilodactylus caudicinctus*) from Nigeria; presented by A. L. de M. Mynn, Esq.

One hundred specimens from S. Africa, collected by C. Grant; presented by C. D. Rudd, Esq.

Two hundred and one specimens from Somaliland, collected by G. W. Bury, Esq.; purchased.

Forty-nine specimens from Persia, collected by R. B. Woosnam, Esq.; presented by Col. Bailward.

Twelve Lizards of the genus *Phrynocephalus* from Central Asia, including type specimens of three species new to the collection (*P. alpherakii*, *zalenskii* and *acutirostris*); received from the St. Petersburg Museum.

Eleven specimens from Tibet, including the types of a new Lizard (*Alsophylax tibetanus*); presented by Lieut.-Col. L. A. Waddal, C.B.

Forty-four specimens from Yunnan, including examples of a new Snake and a new Tortoise, collected by Mr. J. Graham; purchased.

Four specimens from the Himalayas, including the type of a new Snake (*Lycodon mackinnoni*); presented by Captain F. Wall.

One hundred and seven specimens from Ceylon; presented by E. E. Green, Esq.

Thirteen specimens from the Malay Peninsula, including the types of a new Snake (*Calamaria gimletti*), collected by Dr. J. D. Gimlette; presented by the Imperial Institute.

Twenty-nine specimens from Japan, collected by Mr. M. P. Anderson; presented by His Grace the Duke of Bedford.

Twenty-three specimens from Dutch New Guinea, collected by A. E. Pratt, Esq.; purchased.

Forty-five specimens from near Lake Eyre, South Australia, including examples of two new species; presented by H. J. Hillier, Esq.

A Caiman, one of the types of *Caiman sclerops* var. *chiapasius*, from Tetuantepec, received in exchange from the Paris Museum.

Ten specimens from Costa Rica, including the type of a new Snake (*Phrydops melas*), collected by Mr. C. H. Lankester; purchased.

Thirteen specimens from Panama; presented by H. Roberts, Esq.

Fifteen specimens, including examples of a species new to the collection (*Leposoma scincoides*) from British Guiana; presented by Dr. C. Bovallius.

Forty-seven specimens from the Andes of Venezuela, including the types of two new Snakes (*Atractus ventrimaculatus* and *Leptognathus latifrontalis*), collected by Sr. Briceño; purchased.

Eleven specimens from Peru; presented by M. Eugène Robuchon.

Sixteen specimens from Peru, collected by Mr. Ockenden; purchased.

Batrachia.—The accessions number four hundred and six, two hundred and fifty-six by presentation, one hundred and forty-one by purchase, and nine received in exchange.

The most important are:—

Nine specimens from Sierra Leone, including the types of a new Frog (*Petropedetes natator*); presented by Major F. Smith, R.A.M.C.

Fifteen specimens from Angola, including the type of a new Frog (*Rana ansorgii*), collected by Dr. W. J. Ansorge; purchased.

Sixty-four specimens from South Africa, collected by C. Grant; presented by C. D. Rudd, Esq.

Thirty-two specimens from Yunnan, including the types of a new Toad (*Bombinator maximus*) and a new Newt (*Molge wolterstorffi*), collected by Mr. J. Graham; purchased.

Thirty-one specimens from Ceylon; presented by E. E. Green, Esq.

Seven specimens from Selangor, including the types of a new Frog (*Ixalus castanomerus*); received in exchange from the Selangor Museum.

Nineteen specimens from Japan, collected by Mr. M. P. Anderson; presented by His Grace the Duke of Bedford.

The type of a new Tree-Frog (*Hyla graminea*) from British New Guinea; purchased.

Twenty-seven specimens from British Guiana; presented by Dr. C. Bovallius.

Thirty-five specimens from the Andes of Venezuela, collected by Sr. Briceño; purchased.

Pisces.—The accessions number three thousand one hundred and eighty-two, seven hundred and forty-nine by presentation, one thousand three hundred and sixty-six by purchase, and one thousand and sixty-seven received in exchange. The most important are:—

Eighteen prepared skulls of Malacopterygian Fishes; presented by Dr. W. G. Ridewood.

A large Sea-Perch (*Epinephelus cernioides*) from Cornwall, new to the collection and to the British Fauna; presented by Harrod's Stores, Ltd.

A Vendace from Derwentwater, the type of a new British species (*Coregonus gracilior*), received in exchange from the Keswick Museum.

A large Schelly (*Coregonus clupeioides*) from Haweswater; presented by the Earl of Lonsdale.

A very large Gwyniad (*Coregonus clupeioides*) from Bala Lake; presented by W. Owen, Esq.

Two Powan (*Coregonus clupeioides*) from Loch Lomond; presented by W. L. Calderwood, Esq.

Four Charr (*Salmo willughbii*) from Crummock Water; presented by W. H. Marshall, Esq.

Three Burbot (*Lota vulgaris*) from Norfolk; presented by W. E. Sowels, Esq.

Fifty-three specimens from deep water off the Irish Coast; presented by the Department of Agriculture and Technical Instruction for Ireland.

Six Salmon, Trout and Charr from Ireland; presented by W. McOran Campbell, Esq.

Twenty Cyprinid Fishes from Morocco, including the types of a new species (*Barbus ksibi*), collected by Herr Riggenschach; purchased.

Twenty-nine specimens from Lake Chad; presented by Captain Gosling.

Type specimens of *Paratilapia prognatha* and *Neobola argentea*, from Kavirondo Bay; received from the Paris Museum.

Seventeen specimens from the Coast of Angola, including the types of a new species (*Dentex cunninghamii*), and examples of two species new to the collection (*Dentex moroccanus* and *Diagramma mediterraneum*); presented by R. J. Cunninghame, Esq.

Ten specimens from Angola, including the types of four new species (*Mastacembelus ansorgii*, *Marcusenius ansorgii*, *Gnathonemus angolensis* and *Alestes humilis*), collected by Dr. W. J. Ansorge; purchased.

Twenty-one specimens from the West Coast of Africa; presented by the Hon. Walter Rothschild, M.P.

Fifty-two specimens from South Africa, including Cat-Fish (*Clarias theodora*), new to the collection, collected by C. Grant; presented by C. D. Rudd, Esq.

Nine specimens from South Africa, type of new species described by the donor; presented by Dr. J. D. F. Gilchrist.

Fifty-one specimens from the Coast of Natal, including the types of five new species (*Pliotrema warreni*, *Raia ocellifera*, *R. rhizacanthus*, *Scorpena natalensis*, and *Clupea durbanensis*); presented by Dr. E. Warren.

Twenty-eight specimens from Lake Bangwelu, including the types of several new species; collected by F. H. Melland, Esq., and the Rev. Father Foulon; presented by F. H. Melland, Esq.

Ninety-five specimens from the Kilimandjaro District, including types of several new species, collected by Herr Oscar Neumann; purchased.

Fifty-five specimens from the Nile; presented by Captain S. S. Flower.

Seventy-six specimens from the Baro River, collected by Mr. Zaphiro; presented by W. N. McMillan, Esq.

Six specimens of the genera *Cottus* and *Cottocomephorus* from Lake Baikal, including examples of two species new to the collection (*Cottus herzensteini* and *C. godlewskii*); received in exchange from the St. Petersburg Museum.

Eight specimens from Seistan, including the types of two new Cyprinids (*Scaphiodon macmahoni* and *Nemachilus rhadineus*); collected by Colonel Sir Henry McMahon; presented by the Indian Museum, Calcutta.

The types of a new Cyprinid Fish (*Gymnocypris waddellii*) from Tibet; presented by Lieut.-Col. L. A. Waddell, C.B.

Twenty-five specimens from Yunnan, including the types of two new Cyprinids (*Nemachilus grahmi* and *Cyprinus micristius*), collected by Mr. J. Graham; purchased.

Twenty specimens, co-types of species described by Dr. Duncker, from the Malay Peninsula; presented by the Selangor State Museum.

Thirteen specimens from Borneo; presented by the Curator of the Sarawak Museum.

Six hundred and four specimens from the Inland Sea of Japan, including the types of several new species, collected by R. Gordon-Smith, Esq.; purchased.

Twenty-three specimens from Japan, including several rare Selachians; purchased.

Five hundred and forty-nine specimens from Japan, including examples of several species new to the collection; purchased of Dr. D. S. Jordan.

Eighteen specimens from New Guinea; presented by Major W. C. Daniels.

The types of two new Fishes from New Guinea (*Neosilurus bartoni* and *Rhombatractus melanotænia*); presented by His Excellency Governor F. R. Barton.

Six specimens, including the type of a new species (*Eleotris moncktoni*) from New Guinea; presented by C. A. W. Monckton, Esq.

Forty-four specimens of the genus *Galaxias* from Australia, including the types of *G. longi* and *G. occidentalis* and of two new species (*G. waitii* and *G. dissimilis*), received in exchange from the Australian Museum.

Fifty-two specimens from New Zealand, including the types of a new species (*Galaxias huttoni*); presented by the late Captain F. W. Hutton, F.R.S.

Twenty-seven specimens from Tahiti; presented by C. L. Wragge, Esq.

Eighty-one specimens from the United States; received from the Field Museum of Natural History, Chicago.

Thirty-one Pesciform Fishes from North America; received in exchange from Prof. C. H. Eigenmann.

Four American Salmon and Trout (*Salmo ouananiche*, *S. gairdneri* and *S. irideus*), bred in Wales; presented by the Rt. Hon. Lord Denbigh.

Eight hundred and seventy-two specimens from Mexico, collected and described by Dr. S. E. Meek, including examples of several species new to the collection; received in exchange from the Field Museum of Natural History, Chicago.

Type specimens of four Cichlid Fishes (*Cichlosoma rostratum*, *C. centrarchus*, *C. balteatum* and *C. basilare*), described by Dr. Gill, from Lake Nicaragua; received in exchange from the Smithsonian Institution.

Thirty-one specimens from Jamaica, collected by C. A. Wray, Esq.

Types of *Percichthys altispinis*, from Buenos Ayres, and *Sciæna bedsti* from Cuba; received in exchange from the Geneva Museum.

Twenty-six specimens from British Guiana, including the types of a new Loricariid (*Ancistrus bovallii*); presented by Dr. C. Bovallius.

Thirteen specimens from Brazil, including the types of four new species of *Plecostomus* described by Mr. R. von Ihering; received in exchange from the San Paulo Museum.

One of the type specimens of *Galaxias alpinus* Jenyns, from Tierra del Feugo; received from the Zoological Museum of Cambridge University.

Mollusca.—Two thousand six hundred and twenty-eight specimens were acquired during the year. The following are the most important series:—

Altogether one hundred and thirty-two types of species from various localities were obtained by purchase, and fifty-four by presentation.

Eighty land, fresh-water and marine shells from South Africa, &c., including the types of twenty-seven species; presented by J. H. Ponsonby, Esq.

Seventeen specimens of Indian Mollusca, including the types of fourteen species; presented by the late Dr. W. T. Blanford, C.I.E.

Seventy-four land shells belonging to recently described species from Japan; purchased.

One hundred and eighty-six marine Mollusca from antarctic localities and three hundred and fifty-one from the Auckland Islands, obtained by the "Discovery" Expedition. Several new and interesting forms were included in these collections.

One hundred and forty-six marine shells from Cape Verd Island, including several new species and others new to the collection; purchased.

Fifty-six specimens, mostly marine, from Tierra del Feugo, including six new species; collected and presented by Capt. Richard Crawshay.

Ninety-four marine shells from Montebello Islands, N.W. Australia ; presented by T. H. Haynes, Esq.

Seventy-seven marine shells from Ceylon, including the types of forty-seven new species described by H. B. Preston ; purchased.

Fifty specimens of *Olividæ*, including several interesting varieties ; presented by F. G. Bridgman, Esq.

One hundred and four marine shells from the Gulf of Oman and the Persian Gulf, including the types of forty-six species described by J. C. Melvill ; purchased.

Thirty-four land slugs, named by W. E. Collinge, and including the types of seven species from various localities ; purchased.

Forty-four land shells from South Africa, including several interesting species of *Achatina* ; presented by J. F. Quekett, Esq.

Crustacea.—The additions number one thousand three hundred and seventy-eight, of which the following are the most important :—

Two male specimens of the Giant Japanese Crab (*Macrocheira kaempferi*) ; presented by R. Gordon-Smith, Esq.

Five terrestrial Isopoda from Crete ; presented by Miss D. M. A. Bate.

Five Crabs from Sierra Leone ; presented by Major F. Smith, D.S.O., R.A.M.C.

Four hundred and thirty-one Amphipoda from Ceylon, including the types of thirty-seven new species ; presented by Prof. W. A. Herdman, F.R.S.

One hundred and seventy-eight Cladocera, Amphipoda, and Schizopoda ; collected by the "Research" Expedition, and including the types of four new species ; presented by Dr. G. H. Fowler, F.R.S.

Twenty Decapoda and Cirripedia from Cape Colony ; purchased.

Eleven Crayfish from Central and Eastern Europe ; purchased.

Twenty-seven Crayfish from Italy ; presented by the Turin Museum.

Nine Crustacea from South Africa, being co-types of recently described species ; presented by Rev. T. R. R. Stebbing, F.R.S.

Two hundred and eighty-eight Cumacea, Schizopoda, and Decapoda, from the West of Ireland, including types of seventeen new or recently described species ; presented by the Department of Agriculture for Ireland.

One hundred and nine Ostracoda, Amphipoda, and Schizopoda from the "Oceana" Expedition, including the types of two new species ; presented by George Murray, Esq., F.R.S.

Ten Crayfish from Denmark ; presented by Mr. C. J. With.

Twenty-six marine Decapoda and Amphipoda from Jamaica; collected by Mr. C. A. Wray for the Museum.

Two specimens of a new species of River-Crab (*Paratelphusa spinescens*) from Yunnan; purchased.

Eighteen Phyllopoda and two Decapoda from South Australia; presented by H. J. Hillier, Esq.

Nine Crayfish from Ireland; presented by E. W. L. Holt, Esq.

Eighty Decapoda from Singapore and Malacca; presented by W. F. Lanchester, Esq., B.A.

Ten Decapoda from Great Natuna; presented by the Hon. Walter Rothschild, M.P.

Nineteen Fresh-water Decapoda from British Guiana; presented by Dr. C. Bovallius.

Six Decapoda from the Blue Nile, including one species new to the collection; presented by Capt. Stanley Flower.

Thirty-nine Cumacea from the "Siboga" Expedition, including co-types of five new species; presented by Prof. Max Weber.

Arachnida and Myriopoda.—The accessions numbered five thousand two hundred and eighteen, of which the most important were:—

Three thousand eight hundred and eleven Spiders and Harvest-Spiders from Central America, including types of all the species described in the "Biologia Centrali-Americana"; presented by F. D. Godman, Esq.

Eighteen Arachnida and Myriopoda from the Upper Amazons; presented by M. Eugène Robuchon.

Nine Hundred Arachnida and Myriopoda, chiefly from South America; purchased.

Ninety-five Arachnida and Myriopoda from Cape Colony; purchased.

Fifteen Pseudoscorpions from Scotland; presented by Robert Godfrey, Esq.

Eighteen Scorpions, Spiders and Centipedes from West Australia; presented by Dr. W. H. Ince.

Forty-two Arachnida and Myriopoda from Cocos Keeling Island; presented by F. Wood-Jones, Esq.

Insecta.—The accessions for the year amounted to two hundred and fourteen thousand three hundred and seventy, distributed in the following manner:—

Coleoptera	-	-	-	-	-	-	186,038
Lepidoptera	-	-	-	-	-	-	20,099
Rhynchota	-	-	-	-	-	-	1,626
Diptera	-	-	-	-	-	-	3,598
Hymenoptera	-	-	-	-	-	-	1,611
Orthoptera	-	-	-	-	-	-	788
Neuroptera	-	-	-	-	-	-	499
Thysanura and Collembola	-	-	-	-	-	-	74
Nests, &c.	-	-	-	-	-	-	37

Total - - - 214,370

The most important of these are the following:—

(From various Localities.)

The magnificent collection of Coleoptera, formed by the late Mr. Alexander Fry, consisting of between 150,000 and 200,000 specimens, including numerous types and a large number of rarities new to the Museum. The specimens are mostly named, and are labelled with their localities. The collection contains a large number of novelties collected by the late Mr. Doherty in the Malay Archipelago, also a fine series of the species collected by the late Mr. Whitehead at Kinabalu, and described by H. W. Bates. It is particularly rich in Rhynchophora and Longicornia; bequeathed.

A first portion of Dr. D. Sharp's extensive collection of Coleoptera, consisting of 22,000 water-beetles, Dytiscidæ, including 500 type specimens; purchased.

Five thousand specimens of Coleoptera, being a selection from the collection of Cassididæ formed by the late Dr. J. S. Baly, including 192 type specimens; purchased.

One thousand five hundred and sixty-six Coleoptera; purchased.

One hundred and twenty-seven Coleoptera; obtained by exchange.

One hundred and fourteen Hymenoptera, chiefly types; purchased.

Three hundred and fifty-two Moths, thirteen Butterflies, and four other Insects, from Jamaica; fifty-two Moths from Argentina; and ninety-five Lepidoptera, twelve Coleoptera, five Hymenoptera, from various localities; presented by the Right Hon. Lord Walsingham.

(From Europe.)

One hundred and ten Diptera from Crete; presented by Miss D. M. A. Bate.

One hundred *Chrysididæ*, named by M. Du Buysson; purchased.

One hundred and eighteen British Lepidoptera; presented by G. T. Porritt, Esq.

(From Africa.)

Five hundred and eighteen Diptera, sixty-one Lepidoptera, eight Hymenoptera, and one *Cicada*, from North-Eastern Rhodesia; presented by R. Codrington, Esq.

Five hundred and fifty-two Moths from Coomassie; presented by Prof. C. Stewart.

Two hundred and sixty-four Lepidoptera, fifty-one Coleoptera, twenty Neuroptera, fifteen Orthoptera, and two Rhynchota, from Mashonaland and South Africa, including numerous types and co-types; presented by G. A. K. Marshall, Esq.

(From Asia.)

Fifty Butterflies from the Nicobar Islands; presented by G. Rogers, Esq.

One hundred Butterflies; presented by Colonel C. T. Bingham.

Six Butterflies and two hundred and ninety-five Moths, from Hawaii; presented by the Joint Committee of the Royal Society and British Association for investigation of the Fauna of the Sandwich Islands.

One thousand eight hundred and eighty Mosquitoes from India; presented by Major J. R. Adie, I.M.S.

Three hundred and ninety-two Coleoptera, two hundred and thirty-one Hemiptera, eighty-eight Orthoptera, seventy-nine Hymenoptera, fifty-four Neuroptera, one hundred and fifty Lepidoptera, and thirteen Diptera, from India; presented by Dr. A. Jayakar.

One hundred and sixty-two Butterflies from Japan; presented by H. J. Elwes, Esq., F.R.S.

Three hundred and fifty-six Butterflies from British New Guinea; presented by G. Kenrick, Esq.

Three hundred and seventy-eight Butterflies from Sikkim and Bhutan; presented by G. C. Dudgeon, Esq.

Eighty-five Butterflies, and ninety Moths, from Taurus Mountains; purchased.

One hundred and fifty Butterflies, and one hundred and seventy Moths, from Assam; presented by E. C. Ward, Esq.

Six hundred and fifty Lepidoptera, forty-eight Hymenoptera, forty-two Coleoptera, eighteen Orthoptera, nine Neuroptera, four Diptera, and two Rhynchota, from the Malay Peninsula; presented by H. N. Ridley, Esq.

(From Australasia.)

Five hundred and sixty Coleoptera; obtained by exchange.

Ninety-two Rhynchota, and six hundred and sixty-eight Hymenoptera, from Queensland; presented by Dr. A. J. Turner.

One hundred and thirty-eight Coleoptera, one hundred and fifty-five Hymenoptera, ninety-eight Orthoptera, forty-four Neuroptera, fifty-two Rhynchota, and four Diptera, from South Australia; presented by H. J. Hillier, Esq.

(From America.)

A further consignment of Central American Coleoptera, consisting of 8,618 specimens of Hydradophaga, Hydrophilidæ, Brachelytra and Clavicornia. Also 4,727 Lepidoptera (Satyrinæ), 885 Homoptera (Membracidæ), and 196 Epheméridæ; presented by F. D. Godman, Esq., LL.D., F.R.S.

Seven hundred and twenty-seven Moths, one hundred and seventy-four Orthoptera, and fourteen Neuroptera, from Paraguay; presented by W. Foster, Esq.

Four hundred and sixty-five Butterflies, one hundred and fourteen Hymenoptera, ninety Coleoptera, thirty-three Rhynchota, and sixty-five Diptera, from Paraguay; purchased.

Two hundred and fifteen Moths, from Alberta; presented by F. H. Wolley Dod, Esq.

One hundred and two Coleoptera, from the Argentine Republic; presented by A. F. Bayne, Esq.

Two thousand four hundred and ninety-six Moths, and six hundred and thirty-nine Butterflies, from North and South America; presented by W. Schaus, Esq.

Prototracheata.—The ten accessions were obtained by purchase, and proved to be *Peripatus corradi* from Ecuador; they were determined by Prof. Bouvier.

Vermes.—The four hundred and forty-seven accessions includes four Oligochæta from Christmas Island, collected and presented by Dr. Hanitsch, and determined by Prof. Rosa; the greater number are from the Beddard Collection. Four from the Antarctic were determined by Dr. Linstow.

Echinoderma.—The accessions totalled two hundred and eighty-five, including two hundred and twenty specimens from the Antarctic region collected by the "Discovery"; only the specimens that have as yet been named have been registered.

Six deep-sea Holothurians, presented by the trustees of the Indian Museum, and determined by Prof. Koehler.

Seven interesting specimens, including the new *Echinus tenuispinis*, from the Irish Board of Agriculture.

Several specimens of *Toxopneustes variegatus* from Kingston Harbour, collected by Mr. C. A. Wray, remarkable for the fixation of the generative products at the sites of the genital orifices.

Anthozoa.—The twenty-one specimens of *Porites* from various localities in the Pacific Ocean, which had been studied during the preparation of Vol. V. of the Catalogue of Corals, were presented, partly by Mr. J. Stanley Gardiner and partly by the University Museum of Zoology at Cambridge.

Canon Norman supplied the Museum with a good series of Corals collected in British seas; a selection of which is now exhibited. A very fine example of a *Gorgonella* from Zanzibar was presented by Mr. J. T. Last; this will be mounted for exhibition.

Tunicata, Hydrozoa, Polyzoa, Porifera, Protozoa.

Among the acquisitions worthy of mention are:—

Nine bottles containing named samples of Plankton Radiolaria, and eighteen bottles containing pelagic Tunicata, including the various stages in the life-history of *Doliolum*, all from the Farøe Channel. The specimens were collected by Dr. G. H. Fowler, while on board H.M.S. "Research."

Fifty-one specimens of Polyzoa, eleven MS. boxes full of original drawings and notes on the Hydrozoa and Polyzoa of the Busk Collection, and sets of Plates of Polyzoa from rare and valuable publications, *e.g.*, Savigny's "Description de l'Egypte," constituting the final instalment of the Busk Collection; presented by the Misses Busk.

A collection of nineteen specimens of Hydrozoa from the Maldivé and Laccadive Archipelagoes, including several co-types, described by Edward T. Browne; collected and presented by J. Stanley Gardiner, Esq.

VI.—*Visitors and Students.*

The total number of visits paid during the year to the three Sections of the Department by Students and other persons requiring assistance or information amounted to 11,811, as compared with:—

11,824	in the year	1904.
11,627	"	1903.
10,633	"	1902.
12,813	"	1901.
11,923	"	1900.
10,728	"	1899.
10,830	"	1898.
9,708	"	1897.
7,995	"	1896.
8,189	"	1895.

E. Ray Lankester,
Director and Acting Keeper
of Zoology.

DEPARTMENT OF GEOLOGY.

I.—*Arrangement and Conservation.*

Mammalia (Galleries 1 and 2).—The Eoliths exhibited in table-case 1 have been re-arranged and re-tableted.

Pier-case 3, containing Primates and Carnivora, has been cleaned and re-painted. The skulls of Lemuroids from Madagascar, and some of the larger skulls of Carnivora have been newly mounted on stands, with printed labels; and the smaller remains of *Hyæna* have been re-tableted, in revised order, with printed labels.

The unexhibited remains of Felidæ and Hyænidæ in drawers have been re-arranged and completely labelled.

The smaller specimens of *Canis* in table-case 2 have been re-tableted, with printed labels.

A skull of *Ovibos moschatus* from the Severn valley has been mounted and placed in pier-case 16.

A plaster cast of a fore limb of *Arsinoitherium zitteli* has been mounted on a pedestal adjoining pier-case 22.

Some Sirenian remains from the Eocene of Egypt have been mounted and added to pier-case 30.

The catalogued Lagomorphous Rodentia have been arranged in drawers and re-labelled in accordance with the forthcoming catalogue.

A selection of jaws and teeth of the pigmy elephant, *Elephas cypriotes*, from the caverns of Cyprus, has been tableted, with printed labels, in table-case 17A.

Pier-case 38, containing the remains of the Pleistocene North American Mastodon, has been re-arranged, re-fitted, and painted.

Pier-case 39 (40) has also been re-arranged, refitted, and painted. It contains the Pleistocene South American Mastodon, with the skull and mandible of the contemporaneous North American Mastodon for comparison.

Restored models of the skull and mandible of *Palæomastodon* and *Mæriotherium* have been mounted and placed for comparison with the actual fossils, which are being re-arranged to include recent acquisitions, in wall-case 43.

Number of specimens of *Mammalia* registered, 262.

Aves (Gallery 2).—A plaster cast of a hind limb of *Apyornis titan* has been mounted on a pedestal near wall-case 25.

Number of specimens of *Aves* registered, 17.

Reptilia and Amphibia (Galleries 3, 4, 5).—The cases have been re-numbered in accordance with the new edition of the Guide Book recently published.

New general descriptive labels have been prepared and printed for the Ornithosauria and Ichthyosauria.

New cabinets with more commodious drawers have been fixed beneath the table-cases 5 to 23, and the unexhibited remains of Ornithosauria, Crocodilia, and Ichthyosauria, besides a few Dinosauria and Rhynchocephalia, have been transferred to them. There has also been some re-arrangement of the Crocodilia, Dinosauria, and Ichthyosauria in the table-cases.

The smaller remains of Rhynchosauria have been tableted, with printed labels, in table-case 14.

The plaster cast of the large skeleton of *Diplodocus carnegii*, from the Jurassic of Wyoming, U.S.A., has been mounted on a special pedestal in the Gallery of Reptiles, Department of Zoology.

The hind limbs of *Cetiosaurus oxoniensis* and *Brontosaurus excelsus* have been re-mounted on a new pedestal near the specimen of *Cetiosaurus leedsi*.

The plaster cast of the femur of *Atlantosaurus immanis* has been similarly re-mounted on an adjacent new pedestal.

Some small remains of *Cetiosaurus leedsi*, with American bones of *Diplodocus* and *Brontosaurus*, have been mounted, labelled, and arranged on the floor of case L.

A diagram-restoration of the skeleton of *Polacanthus foxi* has been prepared, framed, and labelled, and placed with the actual remains of the skeleton in wall-case 4.

The lower portion of wall-case 15 has been entirely re-arranged and re-fitted to accommodate various recently-acquired Ichthyosauria, including the new specimen which displays contained embryos.

Two specimens, showing gizzard-stones in a fossilised Plesiosaurian stomach, have been added to table-case 29.

The remarkable skulls and jaws of Theriodonts from the Karoo Formation of South Africa, presented by Alfred Brown, Esq., have been tableted and provided with printed labels in table-case 31.

A new specimen of *Testudo ammon*, from the Eocene of Egypt, has been mounted in wall-case 19, and a plaster cast of another example of this tortoise has been placed on the top of the same case.

The Labyrinthodonts exhibited in table-case V have been arranged and re-tableted with printed labels. Various recent acquisitions and an explanatory label have been added.

Number of specimens of Reptilia and Amphibia registered, 255.

Pisces (Gallery 6).—The table-cases have been re-numbered in accordance with the new edition of the Guide Book recently published.

The naming of the Anaspida, Heterostraci, and Osteostraci has been revised; and the specimens have been re-arranged in accordance with the forthcoming Supplementary Catalogue.

The unexhibited specimens of *Asterolepis* in drawers have been re-arranged and labelled while incorporating recent acquisitions.

A new specimen of *Trygon*, from the Eocene of Monte Bolca, has been mounted in a glazed frame on the wall between wall-cases 3 and 4.

A new cabinet, to contain the large unexhibited bones of *Leedsia problematica*, has been placed beneath the tail of this gigantic fish between wall-cases 13 and 14.

The series of Ctenothrissidæ from the English Chalk, exhibited in table-case 26, has been revised, and all the specimens have been re-tableted, with printed labels.

Number of specimens of Pisces registered, 184.

Mollusca (Galleries 7 and 8).—A plaster cast of the largest known Ammonite (*Pachydiscus seppenradensis*), 6 ft. 8 in. in diameter, from the Upper Cretaceous of Westphalia, has been mounted on the wall at the North end of Gallery 7.

Various recently acquired Triassic and Jurassic Nautili and Ammonites have been mounted, labelled, and added to the cases in Gallery 7.

The unexhibited collection of Ammonites from the White Jura of Germany has been revised, re-arranged, and re-labelled.

The table-cases of British Jurassic and Cretaceous Lamellibranchia and Gastropoda, in Gallery 8, have been partially re-arranged while revising the Guide Book.

Series of newly described Eocene Lamellibranchia and Gastropoda from Nigeria and Somaliland have been mounted and labelled for exhibition in wall-case 3, Gallery 8.

Number of specimens of Mollusca registered: Cephalopoda, 933; Gastropoda, 4,174; Lamellibranchia, 4,247.

Arthropoda (Gallery 8).—The registration, labelling, and arrangement of the unexhibited Phyllocarida, Ostracoda, and Cirripedia in drawers are now nearly completed; and some progress has been made with the unexhibited Malacostraca.

A slab of Upper Cambrian limestone from North China, with numerous trilobites, has been framed, labelled, and placed in wall-case 14.

Number of specimens of Arthropoda registered, 3,206.

Vermes (Gallery 8).—A fine group of *Serpula advena*, from the Upper Old Red Sandstone of Caldy Island, has been tableted and provided with a printed label in table-case 79.

Number of specimens of Vermes registered, 151.

Polyzoa (Gallery 8).—The small cabinets of drawers, removed from the Gallery of Fossil Reptiles, have been placed in new frames round the walls of the work-room behind the Departmental Library. They are now occupied by the unexhibited collection of Polyzoa, which has been transferred from the drawers in Gallery 8.

The arrangement and labelling of the unexhibited Jurassic Polyzoa, including recent acquisitions, have been completed.

Number of specimens of Polyzoa registered, 539.

Brachiopoda (Gallery 8).—The arrangement and labelling of Brachiopoda in drawers have been continued, those from the Arctic Regions and from European Jurassic Formations having been completed.

A series of Devonian Brachiopoda from the Hindu Khoosh has been placed on exhibition in wall-case 11, and examples of several rare genera have been added to the systematic series of foreign Brachiopoda.

Number of specimens of Brachiopoda registered, 2,833.

Echinoderma (Gallery 8).—The Irregular Echinoidea from the English Chalk, exhibited in table-case 78, have been revised, re-tableted with printed labels, and re-arranged to illustrate their zonal distribution.

The British Cretaceous Asteroidea have been revised and partly re-registered, while those described or referred to in the Palæontographical Society's Monograph of British Cretaceous Echinoderma have been marked.

A few Miocene Echinoids from Holstein have been tableted, with printed explanatory labels, in wall-case 18.

A series of rocks, largely composed of Echinoderm remains from the passage beds between the Cretaceous and Tertiary systems of Denmark, has been provided with explanatory labels and placed in wall-case 15.

Various figured specimens of British Echinoidea, Asteroidea, and Ophiuroidea have been re-mounted and furnished with printed labels in table cases 75-77.

Number of specimens of Echinoderma registered, 1,129.

New cabinets of drawers have been placed beneath some of the central cases in Gallery 8, to afford needed accommodation for the unexhibited collection.

Anthozoa (Gallery 10).—The collection of Cretaceous Corals has been arranged, labelled, and completely registered while incorporating recent acquisitions from the Tomes Collection and from Northern Spain.

A typical collection of British Cretaceous Corals has been arranged, tableted, and labelled, with explanatory diagrams, in table-cases 1 and 2.

The Portlandian Corals have been similarly arranged, and a selection has been tableted and labelled in table-case 2.

The re-arrangement of the unexhibited collection of Corallian Corals has been begun.

Number of specimens of Anthozoa registered, 2,628.

Hydrozoa, *Porifera*, and *Protozoa* (Gallery 10).—A specimen of the problematical *Lodanella*, from the Lower Devonian of Cornwall, has been mounted, with an explanatory diagram and printed label, in table-case 15.

Number of specimens registered, 416.

Plantæ (Gallery 10).—A typical collection of leaves from the Lower Eocene Clays of Alum Bay, Isle of Wight, has been arranged, tableted, and labelled in table-case 18.

The unexhibited collection of Rhætic and Triassic plants has been arranged and labelled in drawers.

An exhibition of Triassic plant-remains in wall-case 14 has been planned, and the fittings have been prepared.

The arrangement, mounting, and labelling of the Carboniferous plants in wall-case 17 have been completed.

The base of a stem of *Sigillaria*, from the Coal Measures of Northumberland, has been mounted on a pedestal near the entrance to Gallery 10.

New labels have been prepared for the Lower Carboniferous Coniferous tree exhibited in the grounds of the Museum.

Number of specimens of *Plantæ* registered, 497.

Dynamical Collection and Tracks, &c. (Gallery 11).—Some blocks of Magnesian Limestone from Durham, exhibiting remarkable concretionary structures, have been mounted on a pedestal at the North end of Gallery 11.

An additional Geological Section drawn by William Smith has been framed and exhibited with those already on the wall of Gallery 11.

Number of specimens registered, 6.

II.—*Work of Mason, Assistant Mason, and Workshop Attendant.*

A large number of Tertiary mammalian remains from Egypt, Greece (Pikermi), Crete, Spain (Concud), and Patagonia (Santa Cruz) have been extricated from the matrix, hardened, and prepared for study or exhibition.

A skeleton of the pigmy hippopotamus (*Hippopotamus minutus*), from the caverns of Crete, has been reconstructed from isolated bones and mounted for exhibition; the missing parts being restored in plaster and wood.

A plaster cast of the skeleton of *Hippidium* from the Argentine Pampa has been mounted for exhibition; the few missing parts having been modelled in plaster.

A series of limb-bones of *Diprotodon*, from South Australia, has been prepared and hardened for mounting.

The large specimen of *Ichthyosaurus platyodon*, from the Lower Lias of Stockton, has been repaired, and decaying pyrites has been removed from the rock.

Plesiosaurian remains and two Crocodilian skulls, from the Oxford Clay of Peterborough have been prepared for exhibition.

A skeleton of *Pteranodon*, from the Chalk of Kansas, has been prepared and hardened.

Numerous repairs were done to the various parts of the plaster cast of *Diplodocus carnegii*.

A large specimen of the branchial arches of *Leedsia problematica*, from the Oxford Clay of Peterborough, has been prepared for study and exhibition.

Fishes from the Chalk of Kansas have been prepared and fixed in frames. A few fishes from the English Chalk have also been prepared.

The plaster cast of the gigantic Ammonite (*Pachydiscus*) has been fixed to the end wall of Gallery 7.

Numerous specimens have been reduced and prepared before incorporation in the collection, notably Fishes, Crustacea, and Cephalopoda.

Some large specimens of Carboniferous Plants, including the stem of *Sigillaria*, have been prepared for exhibition.

Six blocks of Magnesian Limestone have been trimmed and prepared for exhibition.

Numerous moulds and plaster casts of fossils have been made, including a series of coloured casts for presentation to the Carnegie Museum, Pittsburg.

The Mason has also made a few plaster casts of fishes and Amphibians for the Department of Zoology.

III.—*Printing of Labels.*

The Museum Printer continues to devote one day each week to the preparation of labels for the Department of Geology; but a Boy Attendant in the Department composes and prints most of the labels, and has this year prepared upwards of 727 (and 9,286 prints of these).

IV.—*Exchanges and Duplicates.*

Exchanges of plaster casts and duplicate fossils have been made with the following institutions:—Royal Scottish Museum, Edinburgh; Geological Museum, University of Leyden; and the American Museum of Natural History, New York. An exchange of Jurassic Gastropoda was also made with Mr. L. Richardson.

Small plaster casts have also been supplied for purposes of research to Prof. E. Koken and Mr. F. Springer.

Duplicate fossils have been presented to the Surveyors' Institution; St. Paul's School; University College, Aberystwyth; Royal Albert Memorial Museum, Exeter; and the Hastings Institute, Worcester.

V.—*Departmental Library.*

The additions to the Library, which have been registered, stamped, catalogued, and press-marked, comprise 191 new works and pamphlets, of which 92 were purchased and 99 presented; 501 parts of serials in progress, of which 291 were purchased, and 210 presented; and 78 maps, of which 30 sheets were purchased and 48 sheets presented. 129 volumes have been bound.

VI.—*Publications.*

The Catalogue of the Glossopteris Flora has been published.

The MS. of the Catalogue of the Tertiary Vertebrata of the Fayum is nearly completed, and about half the volume is in type. The MSS. of the Catalogues of Fossil Rodentia and Fossil Fishes (Supplement) are also in progress, and two sheets of the former Catalogue are in type.

The Guide Book to Fossil Reptiles, Amphibians, and Fishes has been re-written by the Keeper, and this new edition has been published. The preparation of a new Guide Book to the Fossil Invertebrata has been begun.

A new List of Casts and Moulds of Fossils in the Department of Geology has also been prepared, and will shortly be published.

The following descriptive papers dealing with various parts of the collection, chiefly recent acquisitions, have been published in scientific journals during 1905:—

By A. S. Woodward, LL.D., F.R.S.

1. On Parts of the Skeleton of *Cetiosaurus leedsi*, a Sauropodous Dinosaur from the Oxford Clay of Peterborough. Proc. Zool. Soc., 1905, vol. i., pp. 232–243, text-figs. 39–49.

2. On some Abdominal Ribs of *Hyperodapedon*, from the Keuper Sandstone of Hollington. Trans. N. Staffs. Field Club, vol. xxxix., pp. 115–117, pl. iii.

3. Permo-Carboniferous Fishes and Labyrinthodonts from Kashmir. Palæont. Indica, n.s., vol. ii., mem. no. 2.

4. Note on some portions of Mosasaurian Jaws obtained by Mr. G. E. Dibley from the Middle Chalk of Cuxton, Kent. Proc. Geol. Assoc., vol. xix., pp. 185–187, text-figs. 1, 2.

By F. A. Bather, M.A., D.SC.

1. The Echinoid Name *Discoidea subucula*. Ann. and Mag. Nat. Hist. [7], vol. xv., pp. 145-148.
2. *Sympterura minveri*, n.g. et sp.: a Devonian Ophiurid from Cornwall. Geol. Mag. [5], vol. ii. pp. 161-169, pl. vi.
3. A Wind-worn Pebble in Boulder Clay. ^e Ibid., pp. 358, 359.
4. The Mount Torlesse Annelid. Ibid., pp. 532-541, text-figs. 1-7. (Note in Abstr. Proc. Geol. Soc., 1905-06, p. 15.)

By R. B. Newton, F.G.S.

1. Eocene Shells from Nigeria. Ann. and Mag. Nat. Hist. [7], vol. xv., pp. 83-91, pl. v.
2. The Tertiary Fossils of Somaliland, as represented in the British Museum (Natural History). Quart. Journ. Geol. Soc., vol. lxi., pp. 155-180, pls. xvii-xxi.
3. Note on the Age and Locality of the *Estheriella* Shales from the Malay Peninsula. Geol. Mag. [5], vol. ii., p. 49.
4. An Account of some Marine Fossils contained in Limestone Nodules found on the Mekran Beach, off the Omara Headland, Baluchistan. Ibid., pp. 293-303, pls. xvi., xvii.
5. Note on some Post-Tertiary Mollusca from Ceylon. Proc. Malac. Soc., vol. vi., pp. 509, 510.
6. On Two Miocene Gastropods from Roumania. Ibid., pp. 340-345, with 3 text-figs.

By C. W. Andrews, D.SC., F.G.S.

1. Note on some recently discovered remains of the Musk-Ox (*Ovibos moschatus*, Zimmermann sp.) from the Pleistocene Beds of Southern England. Proc. Zool. Soc., 1905, vol. i., pp. 50-53, text-figs. 13, 14.
2. Notes on some New Crocodilia from the Eocene of Egypt. Geol. Mag. [5], vol. ii., pp. 481-484.
3. Note on the Species of *Palæomastodon*. Ibid., pp. 562, 563.

By G. C. Crick, A.R.S.M., F.G.S.

1. On a Dibranchiate Cephalopod, *Styracoteuthis orientalis*, n. gen. and n. sp., from the Eocene of Arabia. Proc. Malac. Soc., vol. vi., pp. 274-278.
2. On a specimen of *Cyrtoceras* (*Meloceras*) *apicale* from the Carboniferous Limestone, Kniveton, Derbyshire. Geol. Mag. [5], vol. ii., pp. 62-65.
3. On some Fossil Cephalopoda from North Cornwall, collected by Mr. Howard Fox, F.G.S. Ibid., pp. 154-160.

By W. D. Lang, B.A., F.G.S.

1. On *Stomatopora antiqua*, Haime, and its related Liassic Forms. Geol. Mag. [5], vol. ii., pp. 258-268, pl. xiv.

By Dr. C. I. Forsyth Major, F.L.S.

1. Rodents from the Pleistocene of the Western Mediterranean Region. Geol. Mag. [5], vol. ii., pp. 462-467, 501-506.

By Miss D. M. A. Bate.

1. Four and a half Months in Crete in search of Pleistocene Mammalian Remains. Geol. Mag. [5], vol. ii., pp. 193-202, pls. ix., x.

By Prof. H. G. Seeley, F.R.S.

1. On the Primitive Reptile *Procolophon*. Proc. Zool. Soc., 1905, vol. i., pp. 218-230, text-figs. 30-38.

By Baron Franz Nopcsa, Junr.

1. Notes on British Dinosaurs. Part I. *Hypsilophodon*. Geol. Mag. [5], vol. ii., pp. 203-208, text-figs. 1-4.
2. Notes on British Dinosaurs. Part II. *Polacanthus*. Ibid., pp. 241-250, pl. xii., text-figs. 1-8.
3. *Kerunia*, a Symbiosis of a Hydractinian with a Cephalopod. Ann. and Mag. Nat. Hist. [7], vol. xvi., pp. 95-102, pl. iii., text-figs. 1, 2.

By G. J. Hinde, PH.D., F.R.S.

1. Note on Fragments of Chert from North China. Geol. Mag. [5], vol. ii., p. 255.

By H. Woodward, LL.D., F.R.S.

1. Note on a series of Trilobites obtained by Mr. Howard Fox, F.G.S., from the Devonian of Cant Hill, St. Minver, Cornwall. Geol. Mag. [5], vol. ii., pp. 151-154, pl. v., figs. 1-5.
2. On a Collection of Trilobites from the Upper Cambrian of Shantung, North China. Ibid., pp. 211-255, pl. xiii., text-figs. 1-2.
3. Note on a Fossil Crab and a Group of Balani discovered in Concretions on the Beach at Ormara Headland, Mekran Coast. Ibid., pp. 305-310, text-figs. 1, 2.

By Prof. T. Rupert Jones, F.R.S.

1. Note on a Triassic *Estheriella* from the Malay Peninsula. Geol. Mag. [5], vol. ii., pp. 50-52, pl. ii.

By H. W. Burrows, F.G.S.

1. Note on a Bryozoan attached to *Neptunea* found in one of the Mekran Nodules. Geol. Mag. [5], vol. ii., pp. 303-305, text-fig. 1.

By O. Rosenheim, PH.D.

1. Chitin in the Carapace of *Pterygotus osiliensis* from the Silurian Rocks of Oesel. Proc. Roy. Soc., vol. 76B., pp. 398-400.

By E. A. Newell Arber, M.A., F.L.S.

1. On the Sporangium-like Organs of *Glossopteris Browniana*. Quart. Journ. Geol. Soc., vol. lxi., pp. 324-338, pls. xxx., xxxi.

2. On some New Species of *Lagenostoma*, a type of Pteridospermous Seed from the Coal Measures. Proc. Roy. Soc., vol. 76B., pp. 245-259, pls i., ii.

By B. Smith, B.A.

1. On a Lepidodendroid Stem from the Coal Measures. Geol. Mag. [5], vol. ii., pp. 208-211, text-fig. 1.

By A. C. Seward, M.A., F.R.S.

1. Permo-Carboniferous-Plants from Kashmir. Palæont. Indica, n.s., vol. ii., mem. No. 2.

Various fossils in the Department of Geology have also been described and figured by Mr. Henry Woods, Mr. W. K. Spencer, and Prof. J. F. Blake, in the Monographs of the Palæontographical Society, vol. lix., for 1905.

Specimens have been lent for original research to Mr. Frank Springer (New Mexico), Mr. Henry Woods (Cambridge), Dr. N. Sokolov (St. Petersburg), Mr. W. K. Spencer (Cambridge), Mr. R. I. Pocock (Zoological Gardens), Mr. E. A. Newell Arber (Cambridge), Dr. Wheelton Hind (Stoke-on-Trent), Mr. L. Richardson (Cheltenham), and Mr. R. Kidston (Stirling).

VII.—Acquisitions.

A.—By Donation.

Mammalia.—Plaster casts of the skull and other associated bones of *Wynyardia bassiana*, from the Lower Tertiary of Table Cape, Tasmania, the originals being the type specimen described by Prof. Baldwin Spencer in Proc. Zool. Soc., 1900, pp. 776-795, pls. xlix., 1. Presented by the Director, National Museum, Melbourne.

Mammalian remains from the Eocene of the Fayum, Egypt, including a skull of *Mærittherium*. Presented by Baron Franz Nopcsa, junr.

Four Mammalian teeth from the Miocene beds of Tekfui Dagh, Sea of Marmora. Presented by A. Frank Dabell, Esq., M.I.M.E.

A tooth of *Castor*. Presented by Lieut.-Col. Thomas English, F.G.S.

A Cetacean tooth from the Tertiary near Coquimbo, Chili. Presented by Lieut. Boger, R.N.

Three remains of Edentata from the Pampa of Argentina. Presented by Malcolm Graham, Esq.

A portion of mandible of *Stegodon*, with third lower molar, from Pliocene of Talagang, Jhelum, Punjab. Presented by Captain E. T. F. Birrell, R.A.M.C.

A metacarpus of *Bison priscus* and skull of Musk-Ox (*Ovibos moschatus*) from the river-gravel near Frampton-on-Severn, Gloucestershire. Presented by W. T. Rennie, Esq.

Frontlet and antlers of Roe-buck (*Capreolus caprea*) from a deposit of silt, about 12 ft. below the surface near the Triangular Lodge, Rushden, near Kettering. Presented by James W. Butler, Esq.

Five Mammalian bones from the Pleistocene Gravel, Barnwell, Cambridge, including distal end of femur of Lion and part of humerus of Bear. Presented by Thomas Jesson, Esq., F.G.S.

A mandibular ramus of *Sus scrofa* from the peat, near Newbury. Presented by the Bath Literary and Scientific Institution.

Reptilia.—Thirteen plaster-casts of footprints from the Lower Keuper Sandstone of Cheshire, described in the Rep. Brit. Assoc., Committee on the Flora and Fauna of the Trias, Pts. I. and II. Presented by Joseph Lomas, Esq., F.G.S.

Abdominal ribs of *Hyperodapedon* from the Keuper Sandstone, Hollington, N. Staffs. Presented by John R. B. Masefield, Esq.

Cervical vertebra of *Tamboeria maraisi*, Seeley, from the Lower Karoo Formation, Tamboer Fontein, Cape Colony, being the type specimen, described by the donor in Ann. and Mag. Nat. Hist. [7], vol. xiv. (1904) pp. 336-341, figs. 1, 2. Also an imperfect dorsal vertebra from the same locality, noticed *ibid*, p. 340. Presented by Prof. H. G. Seeley, F.R.S.

A collection of Reptilian Remains from the Karoo Formation of Cape Colony, discovered by the donor chiefly in the neighbourhood of Aliwal North, and including the

following specimens:—15 remains of *Euskelesaurus browni*, described by Prof. Seeley in Ann. and Mag. Nat. Hist. [6] vol. xiv. (1894), pp. 319-332, figs. 1, 3, 5; four remains of *Massospondylus* (?) *browni*, Seeley, loc. cit., vol. xv. (1894), pp. 119-124, figs. 13, 14; one portion of skull of *Diademodon browni*, Seeley, Phil. Trans., 1894 B, p. 1037, pl. 89, figs. 13, 14; one portion of skull of *Diademodon mastacus*, Seeley, loc. cit., 1894 B, p. 1035, pl. 89, figs. 11, 12; one skull of *Microgomphodon oligocynus*, Seeley, loc. cit., 1895 B, p. 31, pl. 1., figs. 1-4; two skulls of *Trirachodon kannemeyeri*, Seeley, loc. cit., p. 49, pl. 2., figs. 5-8. Presented by Alfred Brown, Esq.

Fifty-five Reptilian remains from the Permian of Texas. Presented by Dr. E. C. Case.

Eight fragments of *Ichthyosaurus* from the Lias of Weston and Ilminster. Presented by the Bath Literary and Scientific Institution.

Two portions of *Plesiosaurus* and one portion of *Ichthyosaurus* from the Lias of Weston. Presented by the Rev. H. H. Winwood, M.A., F.G.S.

Remains of a Plesiosaurian with quartzose pebbles among the ribs, from the Upper Greensand near the E. end of Canal Tunnel, Savernake, Wilts: discovered and noticed by the donor, Wilts Archæol. and N.H. Mag., vol. ix. (1865), p. 170. Presented by Thomas Codrington, Esq., M.I.C.E., F.G.S.

Reproduction in plaster of the restored skeleton of *Diplodocus carnegii*, from the Jurassic of Wyoming, U.S.A., mainly based on the original specimens in the Carnegie Museum, Pittsburg, U.S.A. Presented by Andrew Carnegie, Esq., LL.D.

A small restored model of *Diplodocus carnegii*, made by the donor. Presented by W. J. Holland, Esq., LL.D.

A Chelonian limb-bone and vertebra, and a mandible of *Crocodylus niloticus* and other Crocodylian bone-fragments from a marsh at Ause Royale, Mahi Island, Seychelles. Presented by Monsieur L. Tonnet.

Two portions of premaxillæ and two of maxillæ of *Crocodylus niloticus* from a marsh at Anse Royale, Mahi Island, Seychelles. Presented by H. P. Thomasset, Esq.

Pisces.—Five fossil fishes from the Upper Silurian of Lanarkshire (*Thelodus scoticus*, *Lanarkia spinosa*, *Birkenia elegans*). Presented by James Young, Esq.

One *Pteraspis crouchi* from the Lower Old Red Sandstone Ferryside, Carmarthenshire. Presented by Ernest Dixon, Esq., F.G.S.

Twenty-nine Devonian fish-fragments from Devonshire, collected by R. H. Valpy, Esq., F.G.S., illustrating his "Geology of Ilfracombe." Presented by the Trustees of the late R. H. Valpy, Esq.

Two specimens of *Amblypterus* from the Permo-Carboniferous of Khunmu, Vihi Valley, Kashmir. (See Seward and Woodward, *Palæont. Indica.*, n.s. vol. ii., no. 2, 1905.) Presented by the Director of the Geological Survey of India.

One tooth of *Diplodus* and two portions of *Pleuracanthus* from the Permian of Texas. Presented by Dr. E. C. Case.

A piece of the Rhætic bone-bed, Lilliput, Yate. Presented by W. H. Wickes, Esq., F.G.S.

Two fragments of *Pachycormus* from the Lias of Weston and Ilminster. Presented by the Bath Literary and Scientific Institution.

Three fish-teeth from the Lower Cretaceous of France. Presented by J. A. Burford, Esq.

One piece of jaw of *Pachyrhizodus* from the Chalk of Betchworth, Surrey. Presented by H. Eliot Walton, Esq.

A fossil fish, probably *Syllæmus*, obtained by Mr. A. Cotton from a Cretaceous formation in Ekoi Creek, Calabar River, Southern Nigeria. Presented by the Director of the Imperial Institute.

Remains of Siluroids from the Eocene of the Fayum, Egypt. Presented by Baron Franz Nopcsa, junr.

One otolith and a Selachian tooth from the Headon Beds of Whitecliff Bay, Isle of Wight, collected by the donor to illustrate his paper in *Quart. Journ. Geol. Soc.*, vol. xxiv. (1868), p. 519. Presented by Thomas Codrington, Esq., M.I.C.E., F.G.S.

One vertebra and fourteen teeth of sharks (*Lamnidae*) from the Middle Miocene, Asphalte Mines, Ragusa, Sicily. Presented by Ambroise Paré Brown, Esq.

One tooth of *Carcharodon* from a late Tertiary Limestone near Pamekasan, Madura Island, Java. Presented by Ivan A. Stigand, Esq.

One Teleostean fish from the Miocene of Tekfui Dagh; three Teleostean fishes from the Oligocene and Miocene of Roumania. Presented by A. Frank Dabell, Esq., M.I.M.E.

Two teeth of *Carcharodon rondeleti* from Tertiary beds near Coquimbo, Chili. Presented by Lieut. Boger, R.N.

Mollusca.—An *Orthoceras* from the Silurian, Nare Cove, Porthalla, Cornwall. Presented by C. Davies Sherborn, Esq., F.G.S.

One *Agoniatites* sp. from the Devonian, Rope Hawn, near St. Austell, Cornwall, and one *Orthoceras* with striated septa from the Taunusian, Polyne Quarry, W. of Looe, Cornwall. Presented by Upfield Green, Esq., F.G.S.

A specimen of *Cophinoceras* sp. from the Devonian of St. Minver, Cornwall, described and figd. by G. C. Crick, Geol. Mag., March 1905. Presented by Howard Fox, Esq., F.G.S.

A hundred Mollusca collected by the late R. H. Valpy, Esq., F.G.S., illustrating his "Geology of Ilfracombe" and also a paper by R. Etheridge in Quart. Journ. Geol. Soc., 1867. Presented by the trustees of the late R. H. Valpy, Esq.

Five Goniatites from the Upper Devonian, Hérault, France; one Ammonite from the Callovian, Fom Islamen, Constantine; twenty-three Cephalopods from the Jurassic of France and Switzerland; and fifty-seven Molluscs from the Lower Cretaceous of France. Presented by J. A. Burford, Esq.

Four Lamellibranchs from the Coal Measures, 90 yards below Gay's Vein, Ashton Vale Colliery, Bristol; one Lamellibranch from the Lower Coal Measures, South Liberty Pit, Bristol; one Cephalopod from the Lower Coal Measures, Shorneford, near Bacup, Lancs. Presented by Herbert Bolton, Esq., F.R.S.E.

Twelve Molluscs from the Permo-Carboniferous and other formations of New South Wales, made by Mr. William Keene and noticed by him in Quart. Journ. Geol. Soc., vol. XXI. (1865), p. 138, also enumerated in the "Catalogue of Natural and Industrial Products of New South Wales" (International Exhibition, 1862), p. 58. Presented by the Bath Literary and Scientific Institution.

An Ammonite (*Liparoceras cheltense*) from the Middle Lias in a railway cutting near Winchcombe. Presented by Rev. R. Noble Jackson, M.A.

An Ammonite with aptychus and two Teuthids from the Upper Lias of Ilminster, formerly in the collection of the late Charles Moore. Presented by Rev. H. H. Winwood, M.A., F.G.S.

Five Lamellibranchs from the Gault (zone of *Hoplites interruptus*) and four Gastropods from the Lias (zone of *Ammonites capricornus*) from Black Ven, Charmouth. Presented by Dr. F. A. Bather, F.G.S.

One *Pholadomya bucardium* from the Cornbrash, E. of Corscombe Church, Dorset. Also *Arcophagia* cf. *radiata* from the Cenomanian, Charmouth, Dorset. Presented by W. D. Lang, Esq., B.A., F.G.S.

Thirty-nine Mollusca from the Upper Cretaceous of Sierra de Montsech, Lérida, Spain, and sixty-one Mollusca from the Jurassic of Lérida and Teruel, Spain. Presented by Dr. A. S. Woodward, F.R.S.

Twelve fragments of Ammonites (*Perisphinctes*) from the Upper Jurassic of the State of Chihuahua, Mexico. Presented by Henry F. Collins, Esq., F.G.S.

Two specimens of *Unio* aff. *valdensis*, Mantell, from the Wealden Formation at Manning's Heath, three miles S. of Horsham, Sussex. Presented by Augustus Blakiston, Esq.

One *Macroscaphites gigas* from the Lower Greensand, Nutfield, Surrey. Presented by the East Surrey Water Company.

One *Nautilus radiatus* and two *Pleurotomaria gigantea* from the Lower Greensand, Kent. Presented by Jeffrey Whitehead, Esq.

One *Pleurotomaria* from the Cenomanian of Newington, near Folkestone. Presented by Edwin Hambrook, Esq.

One *Actinocamax quadratus* from the Chalk near Winchester. Collected and presented by Dr. F. A. Bather, F.G.S.

One *Actinocamax granulatus* from the *Marsupites*-zone of the Upper Chalk near Flamborough, Yorkshire. Presented by Arthur Burnet, Esq.

An upper mandible of *Nautilus* from the Upper Chalk, Birchington, Kent. Presented by Robert B. Solomon, Esq.

A specimen of *Cardium sphaeroideum* from the Cenomanian (zone of *Pecten asper*), Stert, near Devizes; recorded by the donor in his list of fossils, Wilts. Archæol. Mag., vol. ix. (1865), p. 176. Also a hundred and thirty Molluscs from the Headon Beds of the Isle of Wight, collected by the donor to illustrate his paper in the Quart. Journ. Geol. Soc., vol. xxiv., (1868), p. 519. Presented by Thomas Codrington, Esq. M.I.C.E., F.G.S.

Twenty Upper Cretaceous Molluscs and twenty rock specimens containing shells from Northern Nigeria, collected by Mr. Falconer. Presented by the Director of the Imperial Institute.

Seven Lamellibranchs collected by the donors from the Upper Chalk of Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

Forty-two marine Cretaceous shells collected by Mr. James Crawford from the *Trigonia*-beds of Sunday River, S. Africa. Also a hundred and fifty-six fluviolacustrine shells collected by Captain Caziot from the Oligocene and Cretaceous deposits of the South of France. Presented by E. R. Sykes, Esq., B.A.

One *Ostrea* from the Tertiary beds near Coquimbo, Chili, and one Jurassic Ammonite from Chili. Presented by Lieut. Boger, R.N.

Eighty-five Molluscs from the Cretaceous of France; two from the Cretaceous of Italy; two from the Cretaceous of Algeria; fifteen from the Tertiary and Post-Tertiary of Antigua and Barbadoes. Presented by A. J. Jukes-Browne, Esq., B.A., F.G.S.

Two specimens of *Cyrena borneensis* from the Eocene of Eastern Borneo. Presented by David Draper, Esq.

Seven Oysters, probably *Alectryonia virleti*, from the Miocene of Zanzibar. Presented by J. T. Last, Esq.

Three *Gryphæa cochlear*, var. *navicularis*, from the Pliocene of Myrton, Cyprus; and a Nautiloid and a Gastropod from the *Globigerina* Limestones of the Italian Series between Pachna and Kissoussa to the N.W. of Limassol, Cyprus. Presented by E. H. D. Nicolls, Esq.

Twenty-seven Tertiary Mollusca from Northern Chili. Presented by Herr Albert Holmgren.

Eight Mollusca from the Tertiary Beds of the Dardanelles. Presented by Lieut.-Col. Thomas English, F.G.S.

Twenty-six Molluscs from the Miocene of Takfui Dagh, Sea of Marmora; and twelve Molluscs from the Miocene of Roumania. Presented by A. Frank Dabell, Esq., M.I.M.E.

Three pieces of bone-breccia of Post-Pliocene age, containing shells of *Helix* and *Trochus*, collected by Miss D. M. A. Bate in Crete, and described by the donor in Proc. Malac. Soc. Presented by Rev. R. Ashington Bullen.

A valve of *Ostrea* from the Tertiary deposits of Punta Arenas, Chili. Presented by Captain Richard Crawshay.

Six Lamellibranchs from Clodmiro mine near Capiapo, Chili. Presented by Martin Hardie, Esq.

One Lamellibranch from the Miocene, and sixteen Molluscs from the Post-Pliocene deposits of Grisses, N.E. Java. Presented by Ivan A. Stigand, Esq.

Two fossil Gastropod shells from Breccia in the Rock of Gibraltar. Presented by Col. C. Wilkinson.

Ten natural casts of Mollusca, probably referable to existing Atlantic species and therefore Post-Tertiary, collected from a shelly limestone forming a raised beach deposit, 180-220 feet above sea-level, within 10 miles of Mossamedes, Angola, W. Africa. Presented by R. J. Cuninghame, Esq.

A piece of fresh-water Limestone with *Helix* from a Quaternary formation, Madeira. Presented by Sir C. Alfred Moloney, K.C.M.G.

One *Vallonia pulchella* from Holocene, Walton Heath, Surrey. Presented by R. H. Chandler, Esq.

Arthropoda.—Three Trilobites (*Ogygopsis klotzi*, *Zacanthoides spinosus*, and *Neolenus serratus*) from the Middle Cambrian of Field, Mt. Stephen, B.C. Presented by F. G. Clark, Esq.

Fifty rock fragments containing Trilobites from the Upper Cambrian strata in the province of Shantung, N. China, including specimens described by Dr. Henry Woodward, Geol. Mag., May and June 1905. Presented by Rev. S. Couling, M.A.

Twelve Trilobites collected by the donor from the Llandeilo Beds of Llandrindod Wells. Presented by Dr. C. W. Andrews, F.G.S.

One Trilobite and one Ostracod from the Silurian of Canada. Presented by Col. C. C. Grant.

Two Trilobites from the Devonian, collected by the late R. H. Valpy, Esq., F.G.S., illustrating his "Geology of Ilfracombe," and a paper by R. Etheridge in Quart. Journ. Geol. Soc., 1867. Presented by the Trustees of the late R. H. Valpy, Esq.

Five eyes of *Phacops* from the Lower Devonian (Taunusian) of Polyne Quarry, near Looe, Cornwall. Presented by C. Davies Sherborn, Esq., F.G.S.

Seven fragments of *Dithyrocaris glabra* from the Lower Carboniferous, Castle Ardross, Fife, noticed by Jones and Woodward, "Mon. Palæoz. Phyllopora" (Pal. Soc., 1899), Addenda, p. XII. Presented by W. Tait Kinnear, Esq.

A restored model of the Carboniferous Arthropod, *Prestwichia rotundata*. Presented by Frank Bowcher, Esq.

Five specimens of *Anthrapalæmon* from the Carboniferous near Glasgow, and near Edinburgh. Presented by Robert Dunlop, Esq.

Six specimens of *Estheriella radiata*, var. *multilineata*, from the Triassic shales of Pukus, Semangol, Lerut, Perak. Presented by John B. Scrivenor, Esq., B.A., F.G.S.

A fossil Decapod Crustacean from the Kimmeridge Clay, The Fleet, Wyke Regis, Dorset. Presented by Percy W. Cruttwell, Esq.

Three Phyllopora (*Estheria*) from the Jurassic rocks of Heidelberg, Swellendam district, Cape of Good Hope, described by the donor, Geol. Mag., 1901, pp. 350-354, figs. 1-4. Presented by Prof. T. Rupert Jones, F.R.S.

One *Scalpellum* from the Chalk of Surrey. Collected and presented by Messrs. T. H. Withers and C. P. Chatwin.

Eighteen Crustacea from the Headon Beds of the Isle of Wight, collected by the donor to illustrate his paper in Quart. Journ. Geol. Soc., 1868, p. 519. Presented by Thomas Codrington, Esq., M.I.C.E., F.G.S.

Echinoderma.—One Cystid, *Pleurocystis filitextus*, from the Trenton Limestone of Canada. Presented by the Dowager Marchioness of Dufferin and Ava.

One *Lepadocystis moorei* (Meek), from the Hudson River Group, Richmond, Ind. Presented by A. C. Benedict, Esq.

Twenty Devonian Crinoidea, collected by the late R. H. Valpy, Esq., F.G.S., illustrating his "Geology of Ilfracombe," and a paper by R. Etheridge in Quart. Journ. Geol. Soc., 1867. Presented by the Trustees of the late R. H. Valpy, Esq.

One Crinoid from the Taunusian, Polyne Quarry, W. of Loze, Cornwall. Presented by Upfield Green, Esq., F.G.S.

Thirty-six plates of Crinoidea from shale above the Carboniferous Limestone, Cam Beck, near Ribbleshead, Yorks. Presented by Philip Roscoe, Esq., F.G.S.

Two specimens of Trochitenkalk with radioles of *Cidaris grandæva*, from Gaismühle, near Crailsheim, Würtemberg. Presented by the Geological Institute of Tübingen University.

Three specimens of *Isocrinus* from the Lower Lias, zone of *Liparoceras capricornus*, Black Ven, Charmouth. Presented by Dr. F. A. Bather, F.G.S.

A *Nucleolites clunicularis* from the Cornbrash, E. of Corscombe Church, Dorset. Presented by W. D. Lang, Esq., B.A., F.G.S.

Four Cretaceous Echinoids from Sierra de Montsech, Lérida, and four Jurassic Echinoderms from Lérida and from Teruél, Spain. Presented by Dr. A. S. Woodward, F.R.S.

Thirteen Echinoids, collected to illustrate their distribution in zones, from the Chalk of the South of England. Presented by C. Davies Sherborn, Esq., F.G.S.

Eighteen Echinoids (four *Micraster*, two *Echinocorys*, two *Holaster*, nine *Offaster*, and one *Conulus*) from the Chalk near Winchester. Collected and presented by Dr. F. A. Bather, F.G.S.

Fourteen Echinoderms from the Chalk of Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

Seven Echinoids from the Chalk of Kent. Presented by G. E. Dibley, Esq., F.G.S.

One *Isocrinus australis* preserved in opal, from the Upper Cretaceous of White Cliffs, Wilcannia, New South Wales. Presented by T. C. Wollaston, Esq.

Two Echinoids from the Upper Cretaceous of Orufu, Northern Nigeria, collected by Mr. Falconer. Presented by the Director of the Imperial Institute.

Four Echinoids from the Lower Cretaceous of France. Presented by Ivan A. Stigand, Esq.

Seventeen Echinoderms from the Cretaceous of France. Presented by A. J. Jukes-Browne, Esq., B.A., F.G.S.

A Colony of Echinoids (? *Hemiaster*) from the London Clay beneath Whitestone Pond, Hampstead Heath, 280 feet from the surface. Presented by W. E. Avery, Esq.

Six plaster casts of the Echinoids *Chuniola carolinæ*, *Spatangus gottschei*, and *Maretia zeisei*, as described and figured by Dr. C. Gagel, Jahrb. geol. Landesanst., XXIII., p. 525. pls. xxiv., xxv. (1903), from drift near Zarrentin, S.E. Holstein. Presented by the Director, Königl. Geologische Landesanstalt, Berlin.

Two Spatangoid Sea-urchins, from the Middle Eocene, Kasr-el-Sagha, Fayum, Egypt. Presented by Baron Franz Nopcsa, junr.

One Crinoid of unknown age. Presented by the Bath Literary and Scientific Institution.

Brachiopoda.—One Brachiopod from the Llandeilo beds of Llandrindod Wells. Presented by Dr. C. W. Andrews, F.G.S.

Six Brachiopods from the Lower Palæozoic rocks of Canada. Presented by Col. C. C. Grant.

Two specimens of *Spirifer subcuspidatus* from the Lower Devonian (Taunusian) of Polyne Quarry, near Looe, Cornwall. Presented by C. D. Sherborn, Esq., F.G.S.

One *Orthis calligramma* from Devonian black quartzite, Catasuent Cove, Porth Luney, Cornwall. Presented by Upfield Green, Esq., F.G.S.

Six Brachiopods from the Coal Measures, 90 yards below Gay's Vein, Ashton Vale Colliery, Bristol. Presented by Herbert Bolton, Esq., F.R.S.E.

About four hundred and fifty Brachiopods, collected by the late R. H. Valpy, Esq., F.G.S., illustrating his "Geology of Ilfracombe," and a paper by R. Etheridge in Quart. Journ. Geol. Soc., 1867. Presented by the Trustees of the late R. H. Valpy, Esq.

One *Spirifer* in Carboniferous Sandstone, from Jack Scar, near Middleton-in-Teesdale. Presented by Charles Lee, Esq.

Ten Brachiopods from the Permo-Carboniferous and other formations in New South Wales, collected by Mr. William Keene and noticed by him in Quart. Journ. Geol. Soc., 1865, p. 138, also enumerated in the "Catalogue of Natural and Industrial Products of New South Wales" (International Exhibition, 1862), p. 58. Presented by the Bath Literary and Scientific Institution.

Two Brachiopods from the Lower Cretaceous of France, and two from the Carboniferous of Koswa, Oural. Presented by J. A. Burford, Esq.

Five Brachiopods from the Palæozoic rocks in the Murrumbidgee River valley, 50 miles from Yass, New South Wales. Presented by A. S. Lukin, Esq.

Two Brachiopods from the Bradford Clay, Langton Herring, Dorset. Presented by Rev. J. L. Templer.

Four Brachiopods from the Cornbrash, E. of Corscombe Church, Dorset, and sixteen Brachiopods from the Cretaceous of Cambridge and Norfolk. Presented by W. D. Lang, Esq., B.A., F.G.S.

Ninety-eight Brachiopods from the Jurassic of Lérida and of Teruel, Spain. Presented by Dr. A. S. Woodward, F.R.S.

Three Brachiopods from the Chalk of Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

Four specimens of *Crania tuberculata* from the Danian of Copenhagen. Presented by the Mineralogical Museum of the University, Copenhagen.

Forty-six Cretaceous Brachiopods from France. Presented by A. J. Jukes-Browne, Esq., B.A., F.G.S.

Vermes.—One worm and one *Conularia niagarensis* from the Silurian of Canada. Presented by Col. C. C. Grant.

A specimen of *Serpula advena* from the Upper Old Red Sandstone, Sandtap Bay, Caldy Island, Pembroke. Collected and presented by Allan Mahood, Esq.

Six specimens of the supposed Annelid, *Nereitopsis cornubicus*, from the Lower Devonian, Polyne Quarry, Looe, Cornwall. Presented by Upfield Green, Esq., F.G.S.

Four worms from the Jurassic of Lérida and of Teruel, Spain. Presented by Dr. A. S. Woodward, F.R.S.

Ten Annelida from the Gault, zone of *Hoplites interruptus*, Black Ven, Charmouth. Presented by Dr. F. A. Bather, F.G.S.

One *Serpula plana* from the zone of *Micraster coranquinum*, Haling Pit, Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

Polyzoa.—One Polyzoan from the Silurian of Canada. Presented by Col. C. C. Grant.

One Polyzoan from the Wenlock Limestone, Wren's Nest, Dudley. Presented by S. Priest, Esq.

Twenty-nine Devonian Polyzoa collected by the late R. H. Valpy, Esq., F.G.S., illustrating his "Geology of Ilfracombe," and a paper by R. Etheridge in Quart. Journ. Geol. Soc., 1867. Presented by the Trustees of the late R. H. Valpy, Esq.

One Polyzoan from the Lower Devonian (Taunusian) Polyne Quarry, Looe, Cornwall. Presented by Upfield Green, Esq., F.G.S.

Twenty-one Oolitic Polyzoa from various localities in S.W. England, and *Membranipora* from the Chalk Marl, zone of *Schlœnbachia varians*, Evershot, Dorset. Presented by Rev. J. L. Templer.

Two Polyzoa from the Cretaceous of Lérida and six from the Jurassic of Teruel, Spain. Presented by Dr. A. S. Woodward, F.R.S.

Two specimens of *Berenicea portlandica* from the Portlandian, near Thame, Oxfordshire. Presented by S. S. Buckman, Esq., F.G.S.

One Polyzoan from the Upper Greensand of Pinney Bay, Devonshire. Presented by Dr. F. A. Bather.

Six Polyzoa from the Chalk of Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

Three Cretaceous Polyzoa from France. Presented by A. J. Jukes-Browne, Esq., F.G.S.

Fifty Polyzoa from the Eocene of Belgium. Presented by A. Vassall, Esq.

One Polyzoan from the Headon Beds of Whitecliff Bay, Isle of Wight, collected by the donor to illustrate his paper in the Quart. Journ. Geol. Soc., 1868, p. 519. Presented by Thomas Codrington, Esq., M.F.C.E., F.G.S.

Cœlentera.—Ten Graptolites from the Silurian of Central Wales. Presented by Dr. A. S. Woodward, F.R.S.

Seventeen Graptolites from the Ordovician and Silurian of Central Wales. Presented by Dr. C. W. Andrews, F.G.S.

Fourteen Corals from the Devonian of Germany and fourteen Corals and one Stromatoporoid from the Silurian and Devonian of England. Presented by Upfield Green, Esq., F.G.S.

Forty-three Corals and Stromatoporoids from the Devonian, collected by the late R. H. Valpy, Esq., F.G.S., to illustrate his "Geology of Ilfracombe," and a paper by R. Etheridge in the Quart. Journ. Geol. Soc., 1867. Presented by the Trustees of the late R. H. Valpy, Esq.

Six Corals from the Lower Devonian (Taunusian), Polyne Quarry, near Looe, Cornwall. Presented by C. Davies Sherborn, Esq., F.G.S.

One Coral from the Palæozoic rocks in the Murrumbidgee valley, 50 miles from Yass, New South Wales. Presented by A. S. Lukin, Esq.

Six Corals from the Permo-Carboniferous and other formations of New South Wales, collected by Mr. William Keene, and noticed by him in Quart. Journ. Geol. Soc., 1865, p. 138, also enumerated in the "Catalogue of Natural and Industrial Products of New South Wales" (International Exhibition, 1862), p. 58. Presented by the Bath Literary and Scientific Institution.

One Coral from the Cornbrash, E. of Corscombe Church, Dorset. Presented by W. D. Lang, Esq., B.A., F.G.S.

Two hundred and fifty Corals from the Upper Cretaceous of Sierra de Montsech, Lérida, Spain. Presented by Dr. A. S. Woodward, F.R.S.

Four opalized fossils, probably Corals, from the Upper Darling River, New South Wales. Presented by T. C. Wollaston, Esq.

One *Parasmilia centralis* from the Chalk of Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

One Hydrozoan of doubtful affinities from the Chalk, near Winchester. Collected and presented by Dr. F. A. Bather, F.G.S.

Twenty-five specimens of *Kerunia cornuta*, from the Upper Eocene of the Fayum, Egypt. Described and figured by the donor in Ann. and Mag., Nat. Hist., July, 1905. Presented by Baron Franz Nopcsa, junr.

Two Anthozoa from the Headon Beds of Whitecliff Bay, Isle of Wight, collected by the donor to illustrate his paper in the Quart. Journ. Geol. Soc., 1868, page 519. Presented by Thomas Codrington, Esq., M.I.C.E., F.G.S.

One Coral from the Tertiary rocks of Antigua. Presented by A. J. Jukes-Browne, Esq., B.A., F.G.S.

Porifera.—Three Sponges from the Silurian of Canada. Presented by Col. C. C. Grant.

One *Lodanella* from the Lower Devonian (Taunusian) of Polyne Quarry, near Looe, Cornwall. Presented by Upfield Quen, Esq., F.G.S.

One Sponge from the Inferior Oolite, zone of *Parkinsonia parkinsoni*, Shipton Gorge, Dorset. Presented by Rev. J. L. Templer.

Two Sponges from the Chalk of Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

Nine Sponges from the Upper Cretaceous of Sierra de Montsech, and six from the Jurassic of Teruel, Spain. Presented by Dr. A. S. Woodward, F.R.S.

Protozoa.—Two Foraminifera from the Lower Cretaceous of France, and one from the Carboniferous of Koswa, Oural. Presented by J. A. Burford, Esq.

Nine Foraminifera from the Carboniferous of Northumberland, and thirteen from the Tertiary of the Isle of Masira, S.E. Arabia. Presented by A. Vassall, Esq.

The type specimen of *Ramulina cervicornis*, described by the donor in Journ. Roy. Micros. Soc., 1896, pl. xii., figs. 10, 11, p. 584, from the Gault (bed X), Copt Point, Folkestone. Presented by F. Chapman, Esq., A.L.S.

One *Flabellina cordata* from the Chalk of Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

Sixty-five Foraminifera from the Upper Cretaceous of Sierra de Montsech, Lérida, and three Miocene Foraminifera from Manresa, Spain. Presented by Dr. A. S. Woodward, F.R.S.

A piece of Foraminiferal limestone from the Miocene of Grisses, N.E. Java. Presented by Ivan A. Stigand, Esq.

A piece of *Operculina* rock from the Miocene of Zanzibar. Presented by J. T. Last, Esq.

Plantæ.—*Calamites* and *Calamocladus* from the Upper Carboniferous, north of Satoralliah-Ujhely, Hungary. Presented by A. György, Esq.

Sixteen Plant-remains from the Permo-Carboniferous and other formations of New South Wales, collected by Mr. William Keene, and noticed by him in Quart. Journ. Geol. Soc., vol. xxi. (1865), p. 138, also enumerated in the "Catalogue of Natural and Industrial Products of New South Wales" (International Exhibition, 1862), p. 58. Presented by the Bath Literary and Scientific Institution.

Six Plant-remains from the Upper Old Red Sandstone, Avon Gorge, Clifton. Presented by William M'Pherson, Esq., F.G.S.

Three specimens of *Gangamopteris kashmirensis* from the Permo-Carboniferous of Khunmu, Vihi Valley, Kashmir (see Seward and Woodward, Pal. Indica, n.s., vol. ii., No. 2, 1905). Presented by the Director of the Geological Survey of India.

Two specimens of Nullipore rock from the Upper Cretaceous of Orofu, Northern Nigeria, collected by Mr. Falconer. Presented by the Director of the Imperial Institute.

A piece of Travertine containing fossil leaves from the Quaternary, Lapithos, N. Cyprus. Presented by E. H. D. Nicholls, Esq.

A piece of fossil wood from Cape Flora, Franz Josef Land, noticed in the donor's work, "A Thousand Days in the Arctic." Presented by Captain F. G. Jackson.

Rock Specimens.—An egg-shaped pebble of Devonian Limestone from Paignton beach, Devon, and a piece of perforated surface of Chalk from Shaw Hill, Newbury (see Proc. Geol. Assoc., vol. iv., 1876, p. 521, and vol. ix., p. 210). Presented by Professor T. Rupert Jones, F.R.S.

Two rock specimens, probably Tertiary, one from East Africa, the other from Majunga, W. Madagascar. Presented by David Draper, Esq.

A block of Middle Eocene rock in which the urchins described and figured by Dr. C. Gagel are found (Jahrb. Geol. Landesanst., xxiii., 1903, p. 505, pls. xxiv., xxv.). Presented by The Director, Königl. Geologische Landesanstalt, Berlin.

A boulder from Cape Flora, Franz Josef Land, noticed in the donor's work, "A Thousand Days in the Arctic." Presented by Captain F. G. Jackson.

B.—By Purchase.

Mammalia.—Fifty-eight Mammalian remains, chiefly Edentata, collected by Handel T. Martin from the Santa Cruz Formation of Patagonia, including a skull of *Borhyæna*.

A model of the skull and mandible of *Palæomastodon* and the same of *Mærittherium*.

Twelve plaster casts of foot-bones of *Dinotherium* from the Miocene of Bohemia, the originals in the Royal Bohemian Museum, Prague.

A skull of *Rhinoceros antiquitatis* from the river-gravel of Peterborough.

Two teeth of *Entelodon* from the Hempstead Beds, Isle of Wight.

Mammalian remains from the Crag, including teeth of *Sus*, *Coryphodon*, *Tapirus*, Ruminants, *Hipparion*, *Rhinoceros*, *Mastodon*, *Balanodon*, and *Balæna*; also three rostra of *Belemnosphius*.

A portion of a skull of *Bos longifrons* from the tunnel under the Thames at Shadwell, fifty feet below the surface.

Aves.—Vertebræ and limb-bones of *Hesperornis regalis* from the Cretaceous of Kansas, U.S.A.

Reptilia.—A skeleton and two skulls, &c., of *Telerpeton* from the Trias of Elgin.

One *Ichthyosaurus quadriscissus* from the Upper Lias, Holzmaden, Saxony, showing embryos in the body.

One small *Ichthyosaurus* from the Lower Lias of Wilmcote, and other Ichthyosaurian remains, being part of the collection of the late R. F. Tomes, Esq., F.G.S.

A skull of *Teleidosaurus gaudryi*, Collot; the type specimen, described and figured in *Mém. Acad. Dijon* [4], vol. x. (1905), pls. i.-iii. From the Lower Jurassic, Saint-Seine-l'Abbaye, Cote-d'Or.

A Dinosaurian tibia from the Kimmeridge Clay, Weymouth.

A number of Reptilian remains from the Oxford Clay near Peterborough, namely:—One Teleosaurian head; one skull of *Dakosaurus*; associated head and a hundred and seventy-nine other bones, and part of stomach with gizzard stones, of *Peloneustes*; associated head with a hundred and thirty-eight other bones of *Thaumatosaurus*. Collected by A. N. Leeds, Esq., F.G.S.

Skeleton of *Pteranodon*, lacking head, from the Cretaceous of Kansas, U.S.A.

Two pieces of Mosasaurian jaw and one Mosasaurian vertebra from the English Chalk.

One Ichthyosaurian tooth from the Red Crag (derived fossil).

Pisces.—One fragment of *Onychodus sigmoides* and one *Machæracanthus peracutus* from the Corniferous Limestone of New York, U.S.A.

One *Drepanaspis gemuendenensis* from the Lower Devonian of Gmünden.

One head of *Asterolepis*, two specimens of *Psammosteus tessellatus* (one being part of the type specimen), and two shields and three pieces of *Psammosteus taylori*, from the Upper Old Red Sandstone of Nairn and Elgin.

One specimen of *Myriacanthus paradoxus* from the Lower Lias of Black Ven, Lyme Regis, showing dorsal fin-spine in association with the head.

The hyomandibular and branchial arches of *Leedsia problematica* from the Oxford Clay near Peterborough. Collected by A. N. Leeds, Esq.

One *Macropoma*, four Physostomous fishes, two Acanthopterygian fishes, one *Plethodus*, two groups of teeth of *Ptychodus*, and three Selachian teeth, from the English Chalk. Collected by G. E. Dibley, Esq., F.G.S., according to their zones.

Specimens of *Anogmius*, *Pachyrhizodus*, and *Saurodon*, collected by C. H. Sternberg, from the Chalk of Kansas, U.S.A.

One specimen of *Trygon muricatus* from the Upper Eocene, Monte Bolca.

Various fish-remains (*Phyllodus*, *Acipenser*, *Notidanus*, &c.) from the Red Crag.

Mollusca.—One *Rhynchorthoceras* from Sweden, and three *Helicoceras* from the Cretaceous of Japan.

Seventy-eight Cephalopoda, five hundred and twenty-nine Gastropoda, and one hundred and five Lamellibranchia from the Carboniferous Limestone of Tournai, Belgium (Ad. Piret Collection).

One *Lima gigantea* from the Lower Lias of Chadbury Gloucestershire.

Six hundred and forty-one Cephalopoda and thirteen hundred and forty-five other Mollusca from the Jurassic Rocks, chiefly in Gloucestershire, being part of the collection of the late E. Witchell, Esq., F.G.S., and including a hundred and sixteen type and figured specimens.

Six hundred and sixty-seven Cephalopoda, four hundred and seventy-nine Gastropoda, and seven hundred and forty-three Lamellibranchia, from the Jurassic Rocks, chiefly in the neighbourhood of Evesham, being part of the collection of the late R. F. Tomes, Esq., F.G.S.

Sixty Cephalopoda, one Gastropod, and one Lamellibranch, collected by Prof. E. Koken from the Permo-Carboniferous Rocks of the Salt Range.

Twenty-three Permian, and eight Jurassic Lamellibranchia from various Russian localities.

Sixty-seven Ammonites and Belemnites from English Corallian and Oxfordian rocks.

Eleven Mollusca from the Lower Cretaceous (Urgonian) from Orgon, Bouches-du-Rhône.

Fifty two Cephalopoda, ten Lamellibranchia, and twelve Gastropoda from the Upper Albian of Savoy, collected by the eminent geologist De Luc.

Twelve Ammonites and Nautiloids collected by G. E. Dibley, Esq., F.G.S., from definite zones in the English Chalk.

A coloured plaster cast of the type-specimen of the largest known Ammonite (diam. 6 ft. 8 in.), *Pachydiscus seppenradensis*, from the Upper Cretaceous of Westphalia.

Forty-three fossil Invertebrata, chiefly Mollusca, from the Cretaceous of Catumbella, Angola.

One fine specimen of *Pecten cinctus*, from the Neocomian of Claxby, Lincolnshire.

One *Nautilus* from the London Clay at South Kensington Station, 80 feet deep.

One *Cassidaria* and one *Chrysodomus* from the Red Crag.

Arthropoda.—Eleven Trilobites from the Ordovician of France.

Two models of *Eurypterus fischeri*, and two of *Hughmilleria socialis*.

Three specimens of *Hughmilleria socialis* from the Upper Silurian, New York, U.S.A.

Nine electrotypes of type and figured specimens of Coal Measure Arthropods in the Bristol Museum.

One Trilobite from the collection made by Prof. E. Koken, in the Permo-Carboniferous of the Salt Range.

Thirty-five Crustacea from the Jurassic Rocks of Gloucestershire, being part of the collection of the late E. Witchell, Esq., F.G.S.

One Crustacean from the Stonesfield Slate.

Thirty-six Decapod Crustacea, and two hundred and sixteen Phyllopora, Ostracoda, and Insecta from the Jurassic Rocks of Western and South-Western England, being part of the collection of the late R. F. Tomes, Esq., F.G.S.

Echinoderma.—Two *Lepidocentrus* from the Lower Devonian of Bundenbach, one *Palæchinus* from the Lower Carboniferous, Visé, Belgium, and two Cidarids from the Upper Trias of the Tyrol.

Crinoids from the Carboniferous Limestone of Bundorran, Ireland.

Two hundred and thirty-three Echinoderma from the Lower Carboniferous Limestone of Tournai, Belgium (Ad. Piret Collection).

A Crinoid from the Carboniferous of Roscobie, N.B.

Thirteen Crinoidea, collected by Prof. E. Koken from the Permo-Carboniferous of the Salt Range.

One *Pentacrinus* from the Lower Lias.

Echini from the Pea-grit of Andoversford, Gloucestershire.

One *Clypeus* from the Inferior Oolite.

Ninety-six Echinoderma from the Jurassic Rocks of the West of England, being part of the collection of the late E. Witchell, Esq., F.G.S.

Fifty-two Echinoidea, thirteen Asteroidea, and a hundred and thirty-two Crinoid fragments from the Jurassic Rocks of the West and South-West of England, being part of the collection of the late R. F. Tomes, Esq., F.G.S.

Twenty Echinoidea from the Upper Albian of Savoy, collected by the eminent geologist De Luc.

Brachiopoda.—Three hundred and one Brachiopoda from the Lower Carboniferous of Tournai, Belgium (Ad. Piret Collection).

Brachiopoda from the Carboniferous Limestone of Bundorran, Ireland.

Four hundred Brachiopoda, collected by Prof. E. Koken from the Permo-Carboniferous of the Salt Range.

Eleven Permian Brachiopoda from the Jurassic Rocks of various Russian localities.

Thirty-four Brachiopoda from the Bradford Clay of Greep Wood Quarry, Bradford-on-Avon.

Four hundred and sixty-eight Brachiopoda from the Jurassic rocks of the West and South-West of England, being part of the collection of the late E. Witchell, Esq., F.G.S.

Three hundred and forty Brachiopoda from the Jurassic rocks of the West and South-West of England, being part of the collection of the late R. F. Tomes, Esq., F.G.S.

Twelve Brachiopoda from the Upper Albian of Savoy, collected by the eminent geologist De Luc.

Vermes.—Thirty-one Annelids from the Jurassic Rocks of the West and South-West of England, being part of the collection of the late R. F. Tomes, Esq., F.G.S.

One Annelid from the Jurassic of the West of England, a specimen from the collection of the late E. Witchell, Esq., F.G.S.

Twenty-four Annelida from the Carboniferous Limestone of Tournai, Belgium (Ad. Piret Collection).

Polyzoa.—Twelve Polyzoa from the Devonian of Indiana and Ohio, U.S.A.

Eighty-six Polyzoa from the Jurassic rocks of the West and South-West of England, being part of the collection of the late R. F. Tomes, Esq., F.G.S.

Ten Polyzoa from the Pea-grit of Andoversford, Gloucestershire.

Twelve Polyzoa from the Jurassic Rocks of the West and South-West of England, being part of the collection of the late E. Witchell, Esq., F.G.S.

A hundred and seventy-five Polyzoa from the Chalk of Belgium, Kent, and Surrey.

Anthozoa.—Forty-three Corals from the Devonian of Indiana and Ohio, U.S.A.

Three hundred and three Anthozoa from the Lower Carboniferous of Tournai, Belgium (Ad. Piret Collection).

Corals from the Carboniferous Limestone of Bundorran, Ireland.

Forty-seven Anthozoa collected by Prof. E. Koken from the Permo-Carboniferous of the Salt Range.

Four thousand eight hundred Jurassic Corals, five hundred and eighty-five Cretaceous Corals, and four hundred and eighty-four Corals from other formations, being the most important part of the collection of the late R. F. Tomes, Esq., F.G.S., and containing a hundred and eighty-nine type and figured specimens.

Three Jurassic Corals from the collection of the late E. W. Witchell, Esq., F.G.S.

Three Corals from the Upper Albian of Savoy, collected by the eminent geologist De Luc.

Porifera.—Twenty Porifera from the Lower Carboniferous Limestone of Tournai, Belgium (Ad. Piret Collection).

Sponges from the Pea-grit of Andoversford, Gloucestershire.

A specimen of *Stachyspongia* from the Chalk Marl.

Protozoa.—One Foraminifer, being part of the collection of Prof. E. Koken; from the Permo-Carboniferous of the Salt Range.

Plantæ.—A model of the Carboniferous Plant *Crossotheca*.

Five Microscope-sections of the coal plants, *Cordaites sutchiffi*, and *Medullosa*, &c.

Fossil fruit and wood from the Red Crag, Suffolk.

Tracks.—Seven Bilobites from the Ordovician of France.

C.—By Exchange.

Pisces.—Twenty-one coloured plaster casts of plates of *Bothriolepis major* from the Upper Old Red Sandstone of the Alves district, Elgin. From the Royal Scottish Museum, Edinburgh.

Mollusca.—About 150 Tertiary Mollusca from Borneo and 140 Post-Pliocene Mollusca from Java. From the Geological Museum, University of Leyden.

Twelve specimens of four species of Gastropods from the English Lias. From L. Richardson, Esq, F.G.S.

The total acquisitions are as follows:—

A.—VERTEBRATA :					
By Donation	-	-	-	-	284
„ Purchase	-	-	-	-	263
„ Exchange	-	-	-	-	21
					568
B.—INVERTEBRATA :					
By Donation	-	-	-	-	2,612
„ Purchase	-	-	-	-	14,205
„ Exchange	-	-	-	-	302
					17,119
C.—PLANTÆ :					
By Donation	-	-	-	-	32
„ Purchase	-	-	-	-	8
					40
D.—ROCK SPECIMENS :					
By Donation	-	-	-	-	4
„ Purchase	-	-	-	-	7
					11
TOTAL Acquisitions for 1905 =					17,738

VIII.—*Visitors and Students.*

The number of visits paid to the Department by students and other persons for the purpose of consultation or study during 1905 was 4,968.

IX.—*Lectures and Demonstrations.*

Five parties were received in the Galleries of the Department of Geology, and demonstrations were given as follows:—

March 11.—The Geologists' Association (61 members); by Dr. Woodward, Dr. Andrews, and Mr. Crick.

September 30.—The St. Andrews Social Union of Stockwell (17 members); by Dr. Andrews.

November 11.—The Battersea Field Club and the Selborne Society (47 members); by Dr. Andrews.

November 25.—The London Pupil Teachers' Association (100 members); by Dr. Bather.

December 16.—The Croydon Natural History Society (14 members); by Dr. Woodward.

Arthur Smith Woodward.

DEPARTMENT OF MINERALOGY.

Research.

During the year the crystallographic and chemical investigation of new and rare minerals, belonging to the Sulphide Division, from the Binnenthal, Switzerland, has been continued. In this connection crystals of smithite, hutchinsonite, trechmannite, marrite and lengenbachite have been crystallographically and optically studied; and quantitative chemical analyses have been made of smithite and hutchinsonite, one result of which has been to show that the rare element thallium is an important constituent of the latter mineral. In the Halide Division the new mineral paratacamite has been further crystallographically examined and the nature of its complex twinning discussed. In the Silicate Division an investigation has been in progress into the range of variation of the physical characters of the garnets, and for this purpose the refractive indices and specific gravities of various faceted stones have been determined.

A collection of minerals from German East Africa, including a fine specimen of phenacite, has been crystallographically investigated.

Various minerals (including specimens of andorite, stannite, tourmaline and wolframite) from Bolivia have also been examined and determined.

Crystallographic measurements have been incidentally made on various other specimens, including albite, anatase, apatite, blende, calaverite, caracolite, ilmenite, krennerite, parisite, seligmannite, sylvanite, tennantite and turnerite.

The petrographical examination of the 960 rock-specimens collected in the course of the "Discovery" Antarctic Expedition has been in progress. In this connection about 300 thin slices have been microscopically examined, six quantitative chemical analyses have been made, and specimens of salts found on Antarctic ice have been qualitatively analysed.

Specimens of dundasite from North Wales, a mineral which hitherto has been found only in Tasmania, have been examined and determined; and a chemical formula for the mineral has been for the first time determined by a quantitative chemical analysis.

In the chemical laboratory 12 complete quantitative analyses have been made, viz., of smithite (2), hutchinsonite (2), Antarctic rocks (6), a doubtful mineral from Ceylon containing rare-earths (1), and dundasite (1). Further, 34 doubtful minerals have been qualitatively analysed.

Publications.

A new edition of the "Students' Index to the Collection of Minerals" has been prepared and passed through the press, and the following paper has been published in the "Mineralogical Magazine and Journal of the Mineralogical Society":—

"An improved form of Refractometer": by G. F. Herbert Smith, M.A., F.G.S.

Miscellaneous.

Slip-catalogues have been made of the large series of specimens of silver and gold, and labels have been written for all the specimens. For this purpose all available information respecting each specimen has been collected on the corresponding slip and the history traced as far as possible. In connection with this work a slip-index has been made of all the specimens purchased at Heuland's Sales before 1837; the collections of silver and copper have been entirely re-arranged; and the more valuable specimens of gold and platinum have been weighed. Further, all the specimens of gold, silver and copper, bearing affixed labels referring only to special catalogues, have now been entered in the General Register.

Experiments have been made relative to the best method of attaching the register-numbers to specimens, and gummed tickets, partly printed, have been designed.

The incorporation of recent acquisitions has necessitated the re-arrangement and expansion of several species (pyromorphite, garnet, blende, &c.) in the cases and drawers.

Seventeen cubes of old drawers (8 drawers to a cube) which were too shallow for mineral specimens have been replaced by others containing 5 drawers to a cube.

Large Index-labels for species have been designed, printed, framed and fixed to the columns in the gallery.

The Catalogue of scientific instruments and apparatus in the Department has been revised and amplified.

Assistance has been given in the revision of the proofs of the Catalogue of the Museum Library.

Seventy-two boxes or parcels, containing about 1,300 mineral specimens, have been received, unpacked, and examined; eighty-five boxes or parcels have been packed and despatched.

280 thin slices of rocks have been prepared and two meteoric irons have been cut.

Departmental Library.

To the Departmental Library have been added continuations of 29 periodicals (in 387 parts), 59 volumes of separate works, 66 pamphlets and parts of works, and 26 mining and survey reports; of these, 9 periodicals (in 118 parts), 11

volumes of separate works, 60 pamphlets and parts of works, and all the mining and survey reports were acquired by presentation or transfer. All of them, including 730 plates, have been collated, registered and stamped.

Students.

The number of visits recorded as made to the Department for the purposes of consultation or study is 994.

The Gallery being no longer reserved on particular days of the week for use by students, and study-series having been so arranged as to be directly accessible to the public, and so labelled as to render reference to the staff for information thereon almost completely unnecessary, it has become difficult to distinguish, for statistical purposes, "Students" of minerals from ordinary "Visitors," and stress can no longer be laid on the distinction.

Demonstrations.

A demonstration on Precious Stones and Meteorites was given by Dr. Prior to twenty-five members of the London Pupil Teachers' Association on November 25.

Exchanges.

Exchanges of specimens have been made with Dr. H. A. Ward, of Chicago, and Dr. F. Krantz, of Bonn.

Accessions.

1,083 specimens have been acquired, namely:—

388 minerals, 681 rocks, and 14 meteorites. All of them have been registered, numbered, labelled, and incorporated with the Collection.

The more important of them are as follows:—

Minerals.

By Presentation:

A large mass of native copper coated with native silver, weighing 101 lb., from Bolivia; by F. Avelino Aramayo, Esq.

A collection of tin-ores and other minerals from Bolivia: by M. Roberts, Esq.

A large specimen of beryl-quartz, from Breage, Cornwall: by A. Russell, Esq.

Dundasite, from Welsh Foxdale mine, Caernarvonshire: by H. F. Collins, Esq.

Beryl, molybdenite, thorianite and other minerals containing rare earths, from Ceylon: by A. K. Coomaraswamy, Esq.

A large specimen of columbite, from Norway: by F. A. Blair, Esq.

Specimens of tantalite from Australia : by J. P. de Castro, Esq., and by W. F. Grace, Esq.

Tin-ores from the Transvaal : by G. A. Troye, Esq., and by D. Draper, Esq.

Specimens of corundum, spinel, sodalite, &c., from India, and of rubies, from N. Carolina : by Prof. J. W. Judd, C.B., F.R.S.

Rubies, spinel and lapis lazuli, from Burma, the material described by C. Barrington Brown, Esq., and Prof. J. W. Judd : by H.M. Secretary of State for India, through Prof. J. W. Judd, C.B., F.R.S.

Opals, from Queensland : by T. C. Wollaston, Esq.

Faceted zircons : by E. Hopkins, Esq.

Monazite, fine crystals with anatase on quartz : by the Rev. J. M. Gordon.

By Purchase :

Fine crystals of whewellite, from Saxony.

An exceptionally large crystal of seligmannite and a fine specimen of the new mineral bowmanite, from the Binnenthal.

Amethyst with basal plane and distorted quartz crystals, from the collection of the late Prof. Damour.

Crystals of hellandite, mica and molybdenite, from Norway.

Of fine specimens from the United States may be mentioned:—Amethyst crystals in parallel growth on smoky quartz from Montana, diaspore and datolite from Massachusetts, calcite crystals impregnated with sand from S. Dakota, zincite crystals from New Jersey, and a large crystal of riebeckite from Colorado.

Specimens of copper-glance and copper-pyrites; also crystals of bertrandite, a mineral new to Great Britain : from Cornwall.

Crystals of danburite on axinite, and of wolframite, pseudomorphous after scheelite, from Japan.

The following names added to the Museum List were previously not represented by specimens in the Collection :—

Astrolite, bowmanite, hutchinsonite, keweenawite, lengenbachite, marrite, mohawk-whitneyite, paratacamite, smithite, stilpnochlorane, trechmannite.

Rocks.

By Presentation :

A collection of rock-specimens and ores from the copper mines of Bogoslovsk, Russia : by E. Stratonovitch, Esq., through W. H. Shockley, Esq.

A small collection of alkaline rocks from Victoria, Australia : by G. B. Pritchard, Esq.

A collection of rock-specimens representing well-known formations in the Transvaal: by Dr. F. H. Hatch.

A collection of rock-specimens from Angola: by R. J. Cuninghame, Esq.

A series of crystalline limestones and of gneisses and granulites from the ruby-mining district of Burma; by H.M. Secretary of State for India, through Prof. J. W. Judd, C.B., F.R.S.

A series of specimens of the dolomitic rocks of the southern Tyrol: by Prof. E. W. Skeats.

By Purchase:

A series of 276 typical rock-specimens from the Swiss Alps, collected by Prof. C. Schmidt.

A series of 69 remarkable rocks from various localities.

A specimen of orbicular granite from Argentina.

Meteorites.

By Presentation:

Yenshigahara, Japan; two pieces weighing 81 grams and 34 grams respectively: by Dr. C. Ishikowa.

Tanokami-yama, Japan; a slice weighing 178 grams: by Dr. C. Ishikowa.

Echigo, Japan; fell June 12, 1837: a piece weighing 34 grams: by Dr. C. Ishikowa.

Fukutomi, Japan; a piece weighing 225 grams: by Dr. C. Ishikowa.

Marimba District, British Central Africa; a stone weighing 333 grams: by A. J. Swann, Esq.

By Exchange:

Minas Geraes, Brazil; a slice weighing 62 grams.

Shelburne, Canada; fell August 13, 1904; a slice weighing 80 grams.

By Purchase:

Billings, Missouri; a slice weighing 633 grams.

Shelburne, Canada; fell August 13, 1904; a piece weighing 1,711 grams.

Warbreccan, Queensland; stones weighing 31,640 grams (69 lb.), 29,140 grams (64 lb.), and 443 grams respectively.

Santiago, Chili; a piece weighing 301 grams.

Meteorites of which the names are italicized belong to falls hitherto unrepresented in the Museum Collection.

L. Fletcher.

DEPARTMENT OF BOTANY.

I.—*Arrangement and Conservation.*

During the past year 19,048 specimens, consisting of 13,498 Flowering Plants, 268 Vascular Cryptogams, 525 Mosses, 53 Hepatics, 1,503 Lichens, 46 Algæ, and 3,155 Fungi, have been mounted and incorporated with the Herbarium.

Flowering Plants.—Portions of the following collections have been laid out and incorporated with the general Herbarium—Dr. Hassler's collection from Paraguay, Father Hugh Scallan's collection from Central China, Rev. Urban Faurie's collection from Japan, and a collection of Philippine plants from Mr. E. Merrill. Dr. Bagshawe's collection from Uganda has been incorporated; and a collection from Rhodesia, by Mr. Fred Eyles, has also been determined and incorporated.

In the division Polypetalæ various collections have been laid out and incorporated; the principal additions being to the orders Rosaceæ, Leguminosæ and Cruciferæ. The Polypetalæ of a collection from Mongolia by Mr. C. Campbell have been identified. The order Chailletiaceæ has been re-arranged, and the South American Anonaceæ have been revised with reference to Dr. R. E. Fries's papers.

In the division Gamopetalæ, specimens have been laid out and incorporated in connection with the orders Rubiaceæ, Compositæ, Convolvulaceæ, Solanaceæ, Bignoniaceæ, and Gesneraceæ, and work of re-arrangement or revision has been done in the orders Rubiaceæ, Ericaceæ, Convolvulaceæ (especially tropical African and American), Scrophulariaceæ, Selaginæ, and Labiatæ, and in the genera *Eupatorium*, *Abelia*, *Heliotropium* and *Calceolaria*.

In the Apetalæ a large number of Euphorbiaceæ have been laid out and incorporated, as have also collections from Malaya (by Ridley), British Columbia (by Shaw), Mexico (by Pringle), and Australia (by Statter and Podenzana). A collection from Uganda, by Dr. Bagshawe, has been worked out and incorporated, and a small collection from Mongolia by Mr. C. Campbell, has been determined. Some time was devoted to the identification and revision of tropical African Loranthaceæ.

In the Monocotyledons various collections have been laid out and incorporated, including plants from Angola, collected by Gossweiler, from South Africa, by Schlechter, from the West Indies, by Curtiss, and from Australia, by Podenzana; also a number of Indian and Malayan palms. Work of re-arrangement or revision has been done in the orders

Liliaceæ (especially the genera *Allium*, *Fritillaria*, and others), Juncaceæ, Xyridaceæ, and Eriocaulaceæ. Some time was devoted to the determination of collections made in Tibet, including those of Major Younghusband, and in Central China by Father Hugh Scallan.

Work of determination and re-arrangement has been done in connection with Francis Bauer's drawings of Orchids, and Major-General Hardwicke's collection of drawings of Indian plants.

Ferns.—The plants of various collections have been laid out and incorporated in the general series, including a collection from Japan (by Faurie); and collections from the Falkland Islands, Tierra del Fuego, California, Tahiti, China, and Tibet, have been determined. The following genera have been in part revised and re-arranged—*Polypodium*, *Pteris*, and *Asplenium* (Philippine Islands species).

Mosses.—The plants of various collections have been incorporated in the general series, including Menzies' types of Polytrichaceæ. The genera *Leucophanes*, *Isopterygium* (in part), and *Ectropothecium* (in part) have been revised and re-arranged, and the plants collected by Mr. H. N. Ridley on Christmas Island have been determined.

Algæ.—The genera *Delesseria* and *Laminaria* have been revised and re-arranged; and the plants collected by the British and Scottish Antarctic Expeditions, and by Mr. Ridley on Christmas Island, have been determined.

Fungi.—The British Uredineæ have been revised and re-arranged according to the monographs by Plowright and Klebahn, and material from numerous collections has been incorporated. The North American Uredineæ of Arthur and Holway have been incorporated, and all outstanding material has been incorporated in the genus *Uromyces*, and to some extent in the genus *Puccinia*.

Lichens.—Progress has been made in the work of labelling and arranging the British Lichens.

In the exhibition series the labels have been revised, and numerous specimens inserted. Some progress has been made in the representation of the Dicotyledons, and several cases, including that containing the Sowerby models of Fungi, have been cleaned. The pedestal cases of British Fungi have been re-arranged, and the final sheets added, and progress has been made in the selection of material and preparation of labels for the case of British Lichens. An exhibition illustrating the History of Plant-Classification by means of books and illustrations has been placed in the public gallery and fine specimens of the vegetable sheep (*Raoulia*), from New Zealand, and of *Adenium*, a remarkable dry-country plant, from Somaliland, have been mounted and exhibited.

Some time has been devoted to the exhibition illustrating British trees in the Central Hall.

A large photograph of an orchid, *Phalænopsis Schilleriana*, presented by the Hon. Walter Rothschild, has been framed and placed above the entrance to the Herbarium.

II.—Publications.

The official publications comprise Part III. of the Illustrations of the Australian Botany of Cook's Voyage, by Mr. Britten, and a new edition of the Guide to the British Mycetozoa by Mr. Arthur Lister.

The following publications relating to the collections and work of the Department have also appeared:—

The Botany of the Anglo-German Uganda Boundary Commission, by Messrs. E. G. Baker, Spencer Moore, and A. B. Rendle. (Journal of Linnean Society.)

Mr. Eyles's Rhodesian plants, by Messrs. E. G. Baker, Spencer Moore, and A. B. Rendle. (Journal of Botany.)

Flora of Tropical Africa. (Edited by Sir W. T. Thiselton-Dyer.) Convolvulacæ. By Dr. Rendle (with Mr. J. G. Baker).

Note on *Liparis longipes* Lindl. By Dr. Rendle. (Journal of Botany.)

Classification of Plants. By Dr. Rendle. (Journal of Botany.)

Graham's Mexican Plants. By Mr. Britten. (Journal of Botany.)

Notes on *Cardamine*. By Mr. Baker. (Journal of Botany.)

Alabastra Diversa, XII. By Mr. Spencer Moore. (Journal of Botany.)

New South African Plants. By Mr. Spencer Moore. (Journal of Botany.)

African Rubiaceæ. By Mr. Spencer Moore. (Journal of Botany.)

Penicillus and *Rhipocephalus*. By Mr. and Mrs. Gepp. (Journal of Botany.)

Antarctic Algæ (in two parts). By Mr. and Mrs. Gepp. (Journal of Botany.)

Atlantic Algæ of the "Scotia" Expedition. By Mr. and Mrs. Gepp. (Journal of Botany.)

Note on *Rhipidosiphon*. By Mr. and Mrs. Gepp. (Journal of Botany.)

Christmas Island Cryptogams. By Mr. and Mrs. Gepp. (Journal of Botany.)

Fertilization in *Sphærotheca*. By Mr. Blackman and Miss H. Fraser. (Annals of Botany.)

Further Studies in the Uredineæ. By Mr. Blackman and Miss H. Fraser. (Annals of Botany.)

On the Sexuality and Development of the Ascocarp of *Humaria granulata* Quél. By Mr. Blackman and Miss H. Fraser. (Proc. Roy. Soc.)

Fungi new to Britain. By Miss A. Lorrain Smith (with Mr. Carleton Rea). (Trans. Brit. Mycolog. Soc.)

III.—*Exchanges of Duplicates.*

Exchanges have been effected with the Royal Botanic Museum, Berlin, the Hofmuseum, Vienna, the Botanic Museum, Zurich, the Botanic Garden of the Royal Academy of Science, Stockholm, the Bureau of Government Laboratories, Manila, the Botanic Gardens, Sydney, Mr. T. W. Naylor Beckett, Dr. C. A. M. Lindman, and Dr. R. Schlechter.

IV.—*Loan of Specimens.*

Specimens, mainly undetermined, have been lent as follows:—35 specimens of *Nepenthes* to Professor John Macfarlane, University of Pennsylvania, U.S.A.; 11 specimens of Bambuseæ to Sir Dietrich Brandis, working at the Royal Gardens, Kew; 9 specimens of *Calceolaria* to Dr. F. Kränzlin, Berlin; 30 specimens of Malayan *Impatiens* to Sir Joseph Hooker.

In every case the specimens have been returned in good condition, accompanied by determinations and valuable notes.

V.—*Departmental Library.*

The additions during the past year have been, by donation, 30 volumes, 86 pamphlets; by purchase, 117 volumes, 2 pamphlets, in all 147 volumes, 88 pamphlets. These include 23 periodicals, in 141 parts, presented, and 76 periodicals, in 168 parts, purchased, in all 99 periodicals in 759 parts. 83 volumes have been bound. Progress has been made with the classification and arrangement for binding of the large collection of notes and drawings by R. A. Salisbury.

VI.—*Acquisitions.*

The following additions have been made to the collections by presentation:—

170 Phanerogams and 80 Cryptogams from Malaya, from H. N. Ridley, Esq.; 48 Phanerogams from the Shan States, from Major C. H. Melville; 4 Phanerogams from India, from Dr. T. Cooke; 45 Phanerogams and 20 Cryptogams from Hong-kong, from S. T. Dunn, Esq.; 188 Phanerogams from Eastern Mongolia, from C. W. Campbell, Esq.; 1,954 Phanerogams and 136 Cryptogams from Western China, collected by E. H. Wilson, from Messrs. Veitch; 69 Phanerogams from Rhodesia,

from E. R. Sawyer, Esq.; 21 Phanerogams from Northern Nigeria, from Dr. Karl W. Kumm; 3 specimens of Convolvulaceæ from Northern Nigeria, from Capt. G. B. Gosling; 122 Phanerogams and 8 Cryptogams from Angola, from J. Gossweiler, Esq.; 153 Phanerogams and 3 Cryptogams from the Transvaal, from J. Burt Davy, Esq.; 106 Phanerogams from the Uganda Protectorate, from Dr. A. G. Bagshawe; 3 specimens of Compositæ from South Africa, from Dr. H. Bolus; 4 specimens of Coniferæ from Mexico, from George Shaw, Esq.; 11 specimens of Violets from the United States, from Homer D. Howse, Esq.; 6 Phanerogams from California, from Dr. Davidson; 24 specimens of *Sarracenia* from Dr. J. M. McFarlane, Philadelphia; 249 Phanerogams and 17 Cryptogams, collected in Mexico, 1827-9, by G. J. Graham, from Mrs. Howgrave Graham; 36 specimens of Podostemaceæ from A. W. Bartlett, Esq.; 401 Phanerogams and 17 Cryptogams from Chili, from G. F. Scott Elliot, Esq.; 7 Flowering plants and 13 Cryptogams from Tierra del Fuego, from Capt. Crawshay; 41 Phanerogams and 13 Cryptogams from the Falkland Islands, from Mrs. Vallentin; 5 specimens of *Azalea* critically determined, from Herr J. Valckenier Suringar; specimens of cultivated plants from Messrs. A. Perry (8), James O'Brien, Esq. (20), Walter Ledger, Esq. (9), and E. A. Bowles, Esq. (16); a section of Yew from the Red Bog, near Ballyfin, Queens Co., Ireland, from R. D. Cole, Esq.; a leaf of *Ceratozamia mexicana* and a specimen of *Ecballium Elaterium* for exhibition, from the Director, Royal Gardens, Kew; and 7 specimens of Characeæ for exhibition, from Messrs. H. and J. Groves; 100 Ferns from the South Sea Islands and New Zealand, from Commander G. G. Webber; 3 Ferns from the Pyrenees, from C. E. Salmon, Esq.; 37 Mosses from Fernando Po, from Mr. W. S. Sherrin; 13 Mosses from the Swedish Antarctic Expedition, from M. J. Cardot; 24 Hepatics from Jamaica, from Alexander W. Evans, Esq.; 4 new marine Algæ from the Farøe Islands and Norway, from Herr H. G. Simmons; 24 tubes of fresh-water Algæ, collected by I. H. Burkill, Esq., from Lt.-Col. D. Prain; photographs of 7 types of Japanese Sargassa in Herb. Harvey from Dr. E. Perceval Wright; 33 Lichens from Bombay, from Rev. E. Blatter; one or two specimens from Sir Daniel Morris, Miss Copland, J. W. O'Dell, Esq., F. Garry, Esq., Lieut. Rayner Cole, Franklin White, Esq., Dr. Britton, Dr. Morrison, Rev. R. P. Murray, W. Fawcett, Esq., Rev. J. Gerard, C. Kerr Wilson, Esq., Miss Anna Vickers, and J. T. Bennett-Poë, Esq.; a drawing of a group of plants by M. van Huysum, from F. Justen, Esq.; and a large photograph of *Phalænopsis Schilleriana* for exhibition, from the Hon. Walter Rothschild.

The additions to the British Herbarium by presentation have been:—90 specimens from C. E. Salmon, Esq.; 160 specimens from Rev. E. S. Marshall; photograph of wild

cherry tree showing "Witches' Broom," from Jas. Saunders, Esq., 34 specimens from Rev. H. J. Riddelsdell; a large collection of Rubi collected by the Revs. W. H. Purchas and A. Ley, from Rev. A. Ley; 3 specimens from Miss E. Armitage; 23 specimens from G. C. Druce, Esq.; 28 specimens from A. Bennett, Esq.; 3 specimens from J. C. Melvill, Esq.; 4 specimens of willows from Rev. E. F. Linton; 5 cryptogams from T. E. Belcher, Esq.; 9 rare Hepaticæ from Symers M. Macvicar, Esq.; 3 Fungi and 2 books of manuscript descriptions of British Tuberoideæ and Discomycetes, from Worthington G. Smith, Esq.; large specimens of *Laminaria* from Loch Eil, from Henry A. Hammond, Esq.; and large specimens from the Scilly Isles, from Messrs. C. B. Maggs and R. H. Bunting; about 700 marine Algæ, mostly from the West coast of Scotland, from Monsignor Canon Bernard Ward; and single or two specimens from Prof. D. Oliver, Mrs. Gregory, W. P. Hiern, Esq., C. T. Green, Esq., H. W. Pugsley, Esq., E. Holland, Esq., Dr. C. B. Plowright, and Canon H. W. Lett.

The following additions have been made by exchange of duplicates:—487 specimens from South America and Mexico, and specimens of African Acanthaceæ, from the Royal Botanic Museum, Berlin, through Dr. Engler; 2,333 Phanerogams and 227 Cryptogams of the Philippine Islands, from the Bureau of Government Laboratories, Manila, through Prof. Elmer D. Merrill; 137 specimens from Brazil, collected by Malme, from the Botanic Garden of the Royal Academy of Science, Stockholm, through Prof. Wittrock; 127 Phanerogams and 9 Cryptogams, chiefly collected by R. Schlechter in South Africa, from the Botanic Museum, Zurich, through Prof. Hans Schinz; Kryptogamæ Exsiccatae, Cent. x, xi, from the Vienna Hofmuseum; 123 specimens, mainly Orchids, from New Guinea, from Dr. R. Schlechter; 64 New Zealand Mosses, from T. W. Naylor Beckett; 138 Mosses and Hepatics of Brazil, from Dr. C. A. M. Lindman.

The principal purchases during the year were:—1,273 Phanerogams and 39 Cryptogams from Paraguay, from Dr. Hassler; 881 Phanerogams and 84 Cryptogams from Japan, Corea and Formosa, from Rev. Urban Faurie; 200 Phanerogams and 17 Cryptogams from Siam, collected by Dr. Hosseus, from Dr. Wilms; 176 Phanerogams and 21 Cryptogams, "Iter Persicum alterum, 1902" from J. Bornmüller; 537 South African plants collected by R. Schlechter, from Dr. Loesener; 590 specimens from Camerouns collected by G. Zenker, from Dr. E. Gilg; 445 Phanerogams and 73 Cryptogams from British Columbia, from C. H. Shaw; 800 specimens from South California, from L. R. Abrams; 460 specimens from North Mexico, from G. B. Metcalfe; Herb. Normale, Cent. xlv, from Dörfler; Flora Stiriacæ exsiccata, Cent. i, from Hayek; 117 specimens Herb. Dendrologicum (Fascicle v), from Koehne; 82 specimens

Carices Exsiccatae (Fascicles xii-xiiiA.) and Gramineae Exsiccatae (Fascicles xvii, xviii) from Kneucker; 25 British Hieracia (Fascicle vii.), from Rev. W. R. Linton.

125 Cryptogams of Germany, Austria and Switzerland, from Migula; 160 Muscineae of Cardiganshire, from Painter; 50 Mosses of the Malay Archipelago, from Fleischer; 200 European Hepaticae, from Schiffner; 58 Mosses and 136 Fungi of Brazil, from Ule; 75 North American Algæ, from Collins, Holden, and Setchell; 250 Fungi Imperfecti, from Kabát and Bubák; 20 Ohio Fungi, from Kellerman; 14 Microscope Preparations of Micro-Fungi, from Miss A. L. Smith; 150 Micro-Fungi, from Vestergren; 50 Fungi Selecti, from Jaap; 50 Ascomycetes, from Rehm; 100 European Fungi, from Rabenhorst, Winter, and Pazschke; 50 Economic Fungi, from Seymour and Earle; 150 Fungi of Germany, 50 Uredineae, 50 Phycomycetes and Protomycetes, from Sydow; 150 Cryptogams of South Africa, from Wilms; 400 North American Fungi, from Bartholomew, Ellis, and Everhart; 100 Saxon Fungi, from Krieger; 25 Parasitic Fungi, from Briosi and Cavara; 3 exhibition sheets of Water-colour Drawings from Worthington G. Smith; 30 Water-colour Drawings of British Lichens for exhibition, from Highley.

Among the additions acquired by purchase, special reference may be made to 12 MS. volumes containing a classified series of annotated descriptions of the genera and species of British Basidiomycetes, prepared by Mr. Worthington G. Smith, and illustrated with 135 ink drawings exhibiting the characters of the genera and subgenera. More than 2,150 species are described, thus affording a valuable supplement to the fine series of coloured drawings in the Department.

VII.—*Demonstrations.*

Demonstrations on the collections have been given by Mr. Britten to 31 members of the Catholic Association, April 8th, and by Dr. Rendle to 35 members of the Selborne Society, January 28th, to 25 members of the Co-operative Holidays Association Rambling Club, February 11th, and to 15 members of the West Ham Education Board, Nature Study Class, March 11th.

VIII.—*Students and Visitors.*

The number of visits to the Department for consultation and research during the year was 1,939.

For the whole of the year the Department was in charge of the Senior Assistant, Mr. James Britten.

A. B. Rendle.

BRITISH MUSEUM.

RETURN to an Order of the Honourable The House of Commons,
dated 25 February 1907 ;—for,

COPY “of Account of the INCOME and EXPENDITURE of
the BRITISH MUSEUM (SPECIAL TRUST FUNDS) for
the Year ending the 31st day of March 1907; and,
RETURN of the Number of PERSONS admitted to visit
the MUSEUM and the BRITISH MUSEUM (NATURAL
HISTORY) in each Year from 1901 to 1906, both Years
inclusive; together with a STATEMENT of the PROGRESS
made in the ARRANGEMENT and DESCRIPTION of the
COLLECTIONS, and an ACCOUNT of OBJECTS added to
them in the Year 1906.”

Treasury Chambers, }
11 April 1907. }

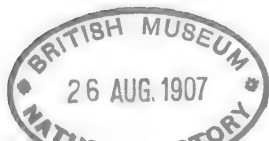
WALTER RUNCIMAN.

(*Mr. Rothschild.*)

Ordered, by The House of Commons, to be Printed,
11 April 1907.

L O N D O N :
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BY EYRE AND SPOTTISWOODE,
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I.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
To BALANCES on the 1st April 1906 - - -	437 14 11	13,150 13 10
- DIVIDENDS received on 13,150 <i>l.</i> 13 <i>s.</i> 10 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by the Earl of Bridgewater, viz.:		
On the 5th April 1906 £. 82 3 10		
" 5th July 1906 - 82 3 10		
" 5th October 1906 - 82 3 10		
" 5th January 1907 - 82 3 10		
	328 15 4	
- RENT OF A REAL ESTATE, bequeathed by the Earl of Bridgewater (less charges of collection, repairs, &c.) - - - -	27 16 6	
£.	794 6 9	13,150 13 10

II.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
To BALANCES on the 1st April 1906 - - -	333 9 3	2,879 10 7
- DIVIDENDS received on 2,879 <i>l.</i> 10 <i>s.</i> 7 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Lord Farnborough, viz.:		
On the 5th April 1906 £. 17 19 11		
" 5th July 1906 - 17 19 11		
" 5th October 1906 - 17 19 11		
" 5th January 1907 - 17 19 11		
	71 19 8	
£.	405 8 11	2,879 10 7

BRIDGEWATER FUND, from the 1st April 1906 to the 31st March 1907.

	CASH.	STOCK, 2½ % Consols.
	£. s. d.	£. s. d.
By One Year's SALARY of the Egerton Librarian -	175 - -	
- AMOUNT expended on purchase of Manuscripts	568 11 9	
- BALANCES ON THE 31ST MARCH 1907, carried to Account for 1907-1908	50 15 -	13,150 13 10
£.	794 6 9	13,150 13 10

FARNBOROUGH FUND, from the 1st April 1906 to the 31st March 1907.

	CASH.	STOCK, 2½ % Consols.
	£. s. d.	£. s. d.
By AMOUNT expended on purchase of Manuscript -	100 - -	
- BALANCES ON THE 31ST MARCH 1907, carried to Account for 1907-1908	305 8 11	2,879 10 7
£.	405 8 11	2,879 10 7

III.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.	STOCK, 2½ % Consols.
	£. s. d.	£. s. d.
To BALANCES on the 1st April 1906 - - -	50 6 1	5,683 1 6
- DIVIDENDS received on 5,683 <i>l.</i> 1 <i>s.</i> 6 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Dr. George Swiney for Lectures on Geology, viz.:		
On the 5th April 1906 - £. 35 10 4		
„ 5th July 1906 - 35 10 4		
„ 5th October 1906 - 35 10 4		
„ 5th January 1907 - 35 10 4		
	142 1 4	
	£. 192 7 5	5,683 1 6

IV.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of

	CASH.	STOCK, 2½ % Consols.
	£. s. d.	£. s. d.
To BALANCE on the 1st April 1906 - - -	—	565 3 9
- DIVIDENDS received on 565 <i>l.</i> 3 <i>s.</i> 9 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Dr. Birch in 1766, for the three Under Librarians of the British Museum, viz.:		
On the 5th April 1906 - £3 10 8		
„ 5th July 1906 - 3 10 8		
„ 5th October 1906 - 3 10 8		
„ 5th January 1907 - 3 10 8		
	14 2 8	
	£. 14 2 8	565 3 9

SWINEY FUND, from the 1st April 1906 to the 31st March 1907.

	CASH.	STOCK, 2½ % Consols.
	£. s. d.	£. s. d.
By AMOUNT paid to Dr. R. F. Scharff, for Lectures on Geology in 1906 - - - -	140 - -	
- BALANCES ON THE 31ST MARCH 1907, carried to Account for 1907-1908 - -	52 7 5	5,683 1 6
£.	192 7 5	5,683 1 6

the BIRCH FUND, from the 1st April 1906 to the 31st March 1907.

	CASH.	STOCK, 2½ % Consols.
	£. s. d.	£. s. d.
By LEGACY paid to the three Under Librarians of the British Museum, whose offices existed in 1766, viz., the Keepers of the Departments of Printed Books, Manuscripts and Natural History - - -	14 2 8	
- BALANCE ON THE 31ST MARCH 1907, carried to Account for 1907-1908 - -	-	565 3 9
£.	14 2 8	565 3 9

V.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest
and Extension of the Library and Reading-room of the British

	CASH.	LOCAL LOANS STOCK.
	£. s. d.	£. s. d.
To AMOUNT of Local Loans Stock on 1st April 1906 - - - -	—	51,632 6 11
- DIVIDENDS received during the year - - -	1,566 12 11	
- AMOUNT of Local Loans Stock purchased with the Dividends - - - -	—	1,588 18 10
£.	1,566 12 11	53,221 5 9

VI.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest
1st April 1906 to

	CASH.	METROPOLITAN 3½ % STOCK.
	£. s. d.	£. s. d.
To AMOUNT of Metropolitan 3½ per cent. Stock on 1st April 1906 - - - -	—	7,307 15 6
- DIVIDENDS received during the year - - -	259 - 3	
- AMOUNT of Metropolitan 3½ per cent. Stock purchased with the Dividends - - - -	—	250 16 1
£.	259 - 3	7,558 11 7

of the late MR. VINCENT STUCKEY LEAN (for the Improvement Museum) from the 1st April 1906 to the 31st March 1907.

	CASH.	LOCAL LOANS STOCK.
	£. s. d.	£. s. d.
BY AMOUNT expended in the purchase of 1,588 <i>l.</i> 18 <i>s.</i> 10 <i>d.</i> Local Loans Stock, Commission, &c. - - - - -	1,566 12 11	
- BALANCE OF STOCK ON THE 31ST MARCH 1907 carried to account for 1907-1908 - - -	—	53,221 5 9
£.	1,566 12 11	53,221 5 9

of the late MR. CHARLES DRURY EDWARD FORTNUM from the the 31st March 1907.

	CASH.	METROPOLITAN 3½ % STOCK.
	£. s. d.	£. s. d.
BY AMOUNT expended in the purchase of 250 <i>l.</i> 16 <i>s.</i> 1 <i>d.</i> Metropolitan 3½ per cent. Stock, Commission, &c. - - - - -	259 - 3	
- BALANCE OF STOCK ON THE 31ST MARCH 1907 carried to account for 1907-1908 - - -	—	7,558 11 7
£.	259 - 3	7,558 11 7

E. Maunde Thompson,

Director and Principal Librarian.

VII.—NUMBER OF PERSONS ADMITTED TO VISIT THE BRITISH MUSEUM AND THE BRITISH MUSEUM (NATURAL HISTORY).

A.—PERSONS ADMITTED TO VIEW THE GENERAL COLLECTIONS IN THE BRITISH MUSEUM IN EACH YEAR FROM 1901 TO 1906, BOTH YEARS INCLUSIVE.

	1901.		1902.		1903.		1904.		1905.		1906.	
	Week-day.	Sunday.	Weekday.	Sunday.	Weekday.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.
January	49,760	2,635	60,756	2,729	61,276	2,458	74,185	3,622	71,905	3,965	54,267	3,146
February	39,688	2,938	48,575	2,396	56,153	3,617	62,945	3,834	59,212	3,513	44,034	3,432
March	45,707	6,088	61,955	5,970	58,572	6,499	65,136	4,967	68,136	5,545	44,010	4,871
April	65,445	4,395	72,051	5,933	82,342	6,372	84,667	5,907	88,755	8,897	61,298	6,664
May	54,816	3,886	78,085	5,339	65,207	7,483	72,706	6,153	65,143	6,002	52,000	4,918
June	48,798	4,766	68,824	6,033	81,232	5,524	65,980	4,483	71,619	5,327	55,551	4,569
July	60,973	4,540	70,333	3,395	86,011	5,309	74,591	5,136	62,396	6,492	56,513	6,404
August	71,783	4,534	83,874	7,090	90,534	7,565	89,089	4,948	79,875	4,976	71,925	5,613
September	58,591	5,272	64,247	5,793	68,748	5,890	83,673	6,640	67,891	5,780	50,615	6,769
October	63,163	3,995	63,611	4,766	73,944	5,233	77,805	5,806	49,502	6,566	55,847	5,008
November	51,839	2,826	54,089	4,304	61,877	4,086	69,058	3,051	28,392	3,422	46,621	3,110
December	59,136	3,020	60,450	2,771	72,904	2,012	77,864	2,305	38,726	1,622	41,531	3,234
Total Number of Persons admitted to view the General Collections.	669,719	48,895	786,850	58,519	858,800	62,048	897,699	56,852	751,552	62,107	634,212	57,738
	718,614		845,369		920,848		954,551		813,659		691,950	

NUMBER OF VISITS OF STUDENTS TO PARTICULAR DEPARTMENTS.

	1901.	1902.	1903.	1904.	1905.	1906.
To the Reading Room	200,035	211,244	209,713	226,323	214,940	212,997
" Newspaper Room	25,511	23,617	23,648	22,053	21,857	19,723
" Map Room	388	309	313	297	286	281
" Department of Manuscripts	9,445	9,063	10,291	10,469	10,623	11,414
" Department of Oriental Printed Books and Manuscripts.	3,257	2,987	2,594	3,595	3,552	3,313
" Print Room	7,027	8,061	9,484	8,383	8,614	8,396
" Egyptian and Assyrian Department	2,470	2,560	2,750	2,900	2,750	2,668
" Greek and Roman Department	570	416	592	740	574	600
" Galleries of Sculpture	3,430	3,293	3,462	2,935	2,985	1,758
" British and Mediæval Department	1,901	2,117	2,445	2,514	1,905	2,995
" Coin and Medal Room	3,944	4,015	4,495	4,223	4,411	4,365
Total	257,978	267,682	269,787	284,432	272,497	268,510

The British Museum, Bloomsbury (including the Departments of Printed Books and Maps, Manuscripts, Oriental Printed Books and Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, Greek and Roman Antiquities, British and Mediæval Antiquities and Ethnography, and Coins and Medals), is open to the public free daily (except on Good Friday and Christmas Day and days of Public Fast or Thanksgiving), as follows:—

On WEEKDAYS from 10 a.m. to 6 p.m.

After 4 p.m. in January, February, November, December, and after 5 p.m. in March, September, October, only certain of the galleries remain open, viz. :—

On MONDAYS, WEDNESDAYS, and FRIDAYS	{ Exhibitions of Manuscripts, Printed Books, Prints and Drawings, Porcelain, Glass & Majolica; Prehistoric, British, Anglo-Saxon, Mediæval and Ethnographical Collections.
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ON TUESDAYS, THURSDAYS, and SATURDAYS	{ Egyptian, Assyrian, Greek and Roman Galleries (exclusive of the Vase Rooms and Bronze Room); Gold Ornament Room, American Collections, and the Waddesdon Room.
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On SUNDAY AFTERNOONS :—

From 2 to 4	p.m. in January, February, November, December.
„ 2 „ 5	„ „ October.
„ 2 „ 5.30	„ „ March, September.
„ 2 „ 6	„ „ April, May, June, July, August.

Persons applying for the purposes of research and reference are admitted to the Reading Room under certain regulations every weekday, except the days specified below, from 9 a.m. until 7 p.m. The Newspaper Room is open, under similar regulations, from 10 a.m. until 4, 5, or 6 p.m., according to the season of the year.

The Reading Room, Newspaper Room, and Students' Rooms in the Library and Department of Manuscripts are closed on Sundays, Good Friday, Christmas Day, and the first four weekdays in March and September.

Other Students' Rooms are closed on Sundays, Good Friday, and Christmas Day, and occasionally for cleaning.

Students are admitted generally to the several Departments, on weekdays, from 10 till 4 or 5 o'clock ; and to the Sculpture Galleries from 9 o'clock till the hour of closing.

British Museum, }
30 March 1907. }

E. Maunde Thompson,
Director and Principal Librarian.

B.—PERSONS ADMITTED TO VIEW THE COLLECTIONS IN THE BRITISH MUSEUM (NATURAL HISTORY), CROMWELL ROAD, in each Year from 1901 to 1906, inclusive.

	1901.		1902.		1903.		1904.		1905.		1906.	
	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.
January	22,625	2,532	26,975	3,513	24,720	2,617	43,394	4,758	39,655	3,933	35,413	3,622
February	19,821	4,349	19,603	3,431	22,099	4,662	26,900	5,481	23,614	4,445	25,960	4,227
March	25,280	7,494	35,229	6,715	24,049	7,419	28,790	6,138	33,156	5,406	27,682	5,454
April	44,881	5,883	35,313	6,082	59,546	5,853	56,671	6,418	60,418	7,071	44,218	6,929
May	33,495	4,916	39,734	6,309	28,800	6,823	36,952	6,466	43,428	8,290	32,020	5,942
June	30,149	5,992	31,170	5,827	41,440	5,827	32,022	4,887	66,124	7,455	42,840	4,380
July	28,529	4,702	31,357	4,603	36,949	6,040	28,540	4,499	36,663	6,948	32,969	6,279
August	47,364	4,631	42,775	6,632	51,044	7,346	43,554	5,178	57,812	6,206	49,279	5,811
September	28,790	6,251	30,775	5,890	32,619	4,966	30,695	5,796	35,916	6,370	29,810	6,683
October	28,900	6,038	25,922	4,969	31,626	4,171	23,689	5,929	33,263	6,793	37,739	5,354
November	22,264	2,961	22,970	4,267	33,466	4,504	24,941	3,203	32,477	3,709	28,799	3,276
December	27,796	3,028	28,786	2,737	37,187	2,960	33,500	2,156	33,758	3,458	24,677	3,194
Total Number of Persons admitted to view the Natural History Collections (including students)	359,894	57,797	372,584	61,035	423,545	63,188	409,648	60,909	496,229	70,084	411,406	61,151
	417,691		433,619		486,733		470,557		566,313		472,557	

NUMBER OF VISITS TO PARTICULAR DEPARTMENTS for the purpose of STUDY.

	1901.		1902.		1903.		1904.		1905.		1906.	
	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.
Zoology	-	-	12,813	10,633	11,627	11,824	11,811	10,813	11,811	10,813	11,811	10,813
Geology	-	-	4,573	4,135	4,501	4,854	4,968	4,171	4,968	4,171	4,968	4,171
Mineralogy	-	-	1,295	1,366	1,541	909	994	867	994	867	994	867
Botany	-	-	2,392	2,068	2,108	2,358	1,939	2,065	1,939	2,065	1,939	2,065
Total	-	-	21,073	18,202	19,877	19,945	19,712	17,916	19,712	17,916	19,712	17,916

The Exhibition Galleries of the British Museum (Natural History), Cromwell-road, South Kensington, including the Departments of Zoology, Geology and Palæontology, Mineralogy, and Botany, are open to the public, free, daily, except Good Friday and Christmas Day, and days of Public Fast or Thanksgiving.

The hours of Admission are as under:—

On WEEKDAYS, throughout the year from 10 a.m., in

January	-	-	-	-	-	to	4	p.m.
February	-	-	-	-	-	„	4.30	„
March	-	-	-	-	-	„	5.30	„
April to August	-	-	-	-	-	„	6	„
September	-	-	-	-	-	„	5.30	„
October	-	-	-	-	-	„	5	„
November and December	-	-	-	-	-	„	4	„

also, on MONDAYS and SATURDAYS only, from the beginning of May to the middle of July, to 8 p.m., and from the middle of July to the end of August, to 7 p.m.

On SUNDAYS, in

January	-	-	-	-	from	2	to	4	p.m.
February	-	-	-	-	„	2	„	4.30	„
March	-	-	-	-	„	2	„	5.30	„
April	-	-	-	-	„	2	„	6	„
May to August	-	-	-	-	„	2.30	„	7	„
September	-	-	-	-	„	2	„	5.30	„
October	-	-	-	-	„	2	„	5	„
November and December	-	-	-	-	„	2	„	4	„

Persons are admitted to study in these Departments every weekday from 10 till 4 o'clock.

British Museum (Natural History), } *E. Ray Lankester*,
23 February 1907. } Director.

VIII.—GENERAL PROGRESS AT THE MUSEUM, BLOOMSBURY.

It is a matter for regret that a further decline in the number of visits to the Museum has to be recorded for the year 1906. The total number was 691,950, a falling off of nearly 122,000 from the number in 1905. Nor has the decline been confined to weekday visits, as it was in the previous year. The 57,738 visits on Sundays were less by 4,369 than those in 1905. We must go back to the year 1900 with its 689,249 visits before finding a total to compare with that of the year 1906.

At the same time, it is an indication of a steady growth of intelligent interest in the collections that, while the numbers of visits decrease, the sale of Guide-books generally tends to increase.

The number of visits of students to the Reading Room has also been reduced by 2,000, the total for the year being 212,997, as against 214,940 in 1905. The daily average was 702.

The average numbers of persons in the room, counted at the later hours of the afternoon, were:—

	4 P.M.	5 P.M.	6 P.M.	6.30 P.M.
	349	256	172	119

The number of visits of students to particular Departments in 1906 was 55,513, as against 57,557 in 1905. The number of visits to the Newspaper Room decreased by 2,000; while, as regards other fluctuations, there were 1,200 fewer visits in the Sculpture Galleries, but 800 more in the Department of Manuscripts, and nearly 1,100 more in the Department of British and Mediæval Antiquities.

During the year effect has been given to the scheme of the British Museum Extension which is projected to occupy in the future the site of the lines of houses on the north, east and west sides of the Museum, which were purchased in 1895. A building to form a range of galleries connected with the northern portion of the present Museum buildings is now being erected upon the site of demolished houses which formed the south side of Montague Place, under the control of the First Commissioner of His Majesty's Works; Mr. John James Burnet, A.R.S.A., being the architect to whom the work is entrusted.

The building is to consist of a basement and a sub-ground floor, for storage; a series of ground-floor galleries, for expansion of the library; a mezzanine to be arranged in studies and students' rooms; and a suite of exhibition galleries on the upper floor. The means for the work are provided from funds partly bequeathed by the late Mr. Vincent Stuckey Lean and partly voted by Parliament.

A first contract for the construction of the basement and sub-ground floor was entered into in April, when work was commenced.

For many years serious defects have shown themselves in the facing-stones of the Museum buildings, being chiefly due to the employment, during construction, of iron plugs instead of copper plugs for bonding; with the result that a very large portion of the surface has been cracked and burst by oxidation of the iron. Repairs have been in progress since 1905, and will be continued until the injuries have been made good.

As a further precaution against fire, the interior of the roof has been divided into smaller "risks" by the introduction of sectional walls; an elaborate system of lightning conductors has been installed; and the opportunity has been taken to bring the fire-staff, formerly lodged some distance away, into residence in a spare house in Montague Place.

The planing and polishing of all the wooden floors of the Museum galleries has now been completed, the floor of the Ethnographical Gallery having been treated during the year. The improvement in the cleanliness of the galleries, and even of the interiors of the show-cases into which, under the old system, the floating dust continuously raised by the traffic of visitors penetrated in spite of all precautions, is ample compensation for the time and money expended on the work.

In the Sculpture Galleries, the Ephesus Room and Ante-Room, and the Phigaleian Room; and, on the Upper Floor, the North Gallery, have been re-painted. Improvements have been effected in the ventilation and lighting of some of the exhibition galleries by the introduction of electric fans and additional skylights.

In consequence of the largely increasing number of applications for leave to make photographs from the collections, and the excessive demand upon the time of the superintending staff, the Trustees have been constrained to impose fees of a small amount for the privilege.

Among the more important additions to the several Departments the following may be specially noticed:—

The Department of Printed Books has been fortunate in acquiring as many as 246 Incunabula, or books printed before the year 1501, chiefly of German and Italian origin. This accession brings the Museum collection of Incunabula into the front rank, if it does not actually place it at the head of all collections in national libraries, duplicates being excluded from calculation. To the liberality of Lord Strathcona, the Hon. Walter Rothschild, and others, the Department also owes the possession of a collection of 158 works or editions hitherto unknown, including Incunabula and many books of the 16th century. Among single volumes of special interest added to the Department are "The Book of Good Manners," a very rare work, printed by Caxton in 1487; and seven early English plays and interludes printed between 1560 and 1580.

The Department of Manuscripts has made notable additions to its collections. By gift of His Majesty the King

it comes into possession of two Greek papyrus rolls from Herculaneum, which formed part of the series presented by the Neapolitan Government to the Prince of Wales in 1803-6, five of the same series having been given to the Museum in 1865 by Her late Majesty Queen Victoria. Other valuable additions to the departmental collection of Greek papyri have been made by a donation from the Egypt Exploration Fund and by purchase. The Department has also acquired two valuable MSS. of Chaucer's "Canterbury Tales," and a volume of English Metrical Romances of about the year 1400; as well as the official diplomatic correspondence of Charles, Lord Whitworth, from 1702 to 1725, and the political and private correspondence of the Marquess Wellesley, from 1797 to 1842. Mr. R. P. Brereton has bequeathed his collections relating to the churches of Northamptonshire, Rutland, and Somerset.

The Department of Oriental Printed Books and Manuscripts has secured some important Coptic MSS., and has added some further examples to its fine collection of Arabic MSS. of the 13th and 14th centuries. The large series of Tibetan MSS. and books which were presented by the Government of India in 1905 are noticed in this Return.

The Department of Prints and Drawings has purchased an interesting series of portraits of eminent persons of the nineteenth century by Henri and Rudolf Lehmann. A selection of them is exhibited in the King's Library. The very important collection of Japanese woodcuts printed in colours, which was formed by Mr. Arthur Morrison, has also been added to the Department, which has further benefited by many liberal donations from private persons.

To the Department of Egyptian and Assyrian Antiquities are added a remarkable statue of Sen-Mut, the architect of the Egyptian Queen Hatshepsut, about 1550 B.C.; a large series of scarabs which are an important supplement to the Museum collection; and a number of miscellaneous Egyptian antiquities, presented by the Egypt Exploration Fund. Among the Babylonian and Assyrian antiquities are a remarkable historical inscribed cone of a king of Babylon, about 2145 B.C.; series of inscribed Babylonian tablets of 2400-2000 B.C.; and some very early and rare cylinder seals.

To the Department of Greek and Roman Antiquities is added an interesting series of Greek bronzes of the best period (p. 66, Nos. 9-16); and among the many donations to the Department are a series of casts of fragments of sculpture from the frieze of the Parthenon, presented by the Greek Government; a rare series of votive offerings, of the pre-Roman period, found in Spain and given by Mr. Horace Sandars; and a group of Greek vases, the gift of Sir Henry H. Howorth.

The Department of British and Mediæval Antiquities and Ethnography has secured a remarkable Italian albarello of the 15th century, together with other valuable specimens of

maiolica; a Byzantine medallion of cloisonné enamel, the gift of Mr. Charles J. Wertheimer; and an important series of temple-pictures and other objects from Tibet presented by the Government of India.

The Department of Coins and Medals has been enriched by a most important donation, from Dr. F. Parkes Weber, of Greek and Roman coins, and of mediæval and modern, British and Colonial, and Oriental coins and medals, making a total of upwards of 5,500 pieces.

Gifts of Museum publications, including reproductions of prints and drawings by Old Masters and sets of electrotypes of British Historical Medals, have been made to Free Libraries, Local Museums, and Art Schools throughout the United Kingdom, and to institutions in various Colonies.

The following are the publications issued by the Departments at Bloomsbury during the year:—

Cuneiform Texts from Babylonian Tablets, etc., in the British Museum. Parts XXII. and XXIII. 1906. Foolscap, 7s. 6d. each part.

Coptic and Greek Texts of the Christian Period from Ostraka, Stelae, etc., in the British Museum. By H. R. Hall. 100 plates. 1905. Foolscap, 2l.

Catalogue of the Greek Coins of Phrygia. By Barclay V. Head. With map and 53 plates. 1906. 8vo, 2l.

Medallic Illustrations of the History of Great Britain and Ireland. Plates XLI.—L. Part V. 1906. Portfolio, 6s.

Catalogue of MS. Music in the British Museum. By Augustus Hughes-Hughes. Vol. 1. Sacred Vocal Music. 1906. 8vo, 21s.

Subject Index of the Modern Works added to the Library of the British Museum in the Years 1901–1905. 1906. 8vo, 2l.

Catalogue of Printed Books. Excerpt. “Byron.” 1906. 4to, 1s.

Catalogue of the Marathi, Gujarati, Bengali, Assamese, Oriya, Pushtu, and Sindhi MSS. in the Library of the British Museum. By J. F. Blumhardt, M.A. 1905. 4to, 1l.

Early Engraving and Engravers in England (1545–1695). A Critical and Historical Essay by Sidney Colvin. With 41 photogravure facsimiles and 46 illustrations. 1905. Folio, 5l. 5s.

Reproductions of Prints. New Series. Part XV. (Specimens of Line Engraving by German Masters of the Eighteenth Century). 11 plates. 1906. 2l.

Guide to the Sculptures of the Parthenon; (a section of the Catalogue of Sculpture, Vol. 1). 3rd Edition. 1906. 8vo, 1s.

Guide to the MSS., Autographs, Charters, Seals, Illuminations, and Bindings exhibited in the Department of Manuscripts. With 30 plates. 3rd Edition. 1906. 8vo, 6d.

British Museum, }
30 March, 1907. }

E. Maunde Thompson,
Director and Principal Librarian.

IX.--PROGRESS made in the ARRANGEMENT AND DESCRIPTION OF THE COLLECTIONS, AND ACCOUNT OF OBJECTS ADDED TO THEM in the Year 1906 (Bloomsbury).

DEPARTMENT OF PRINTED BOOKS.

I. *Arrangement*.—The works added to the collection during the past year have, as far as possible, been placed on the shelves of the Library according to the system of classification adopted in the Museum.

The press-marks, indicating their respective localities, have been marked on the inside and affixed to the back of each volume.

The total number of these press-marks amounts to 70,831; in addition to which 42,484 press-marks have been altered in consequence of changes and re-arrangements carried out in the Library; 25,412 labels have been affixed to books and volumes of newspapers, and 119,107 obliterated labels have been renewed.

The process of attaching third-marks to the books in the New Library, with the view of accelerating their delivery to readers, has been continued; 18,503 books have been thus marked during the year, and the corresponding alterations, amounting to 97,797, have been carried out in General and Hand Catalogues; 2,885 index-slips have been written for London Newspapers.

The number of stamps impressed upon the articles received has been 428,403.

4,720 presses of books and newspapers have been dusted in the course of the year.

II. *Catalogues*.—(a) *Cataloguing*.—43,742 titles have been written (the term "title" applying equally to a main-title and to a cross-reference). Of these, 31,986 were written for the General Catalogue, 2,347 for the Map Catalogue, and 9,409 for the Music Catalogue.

(b) *Printing*.—36,468 titles and 1,122 index-slips for the General Catalogue, and 13,814 for the Music Catalogue have been prepared for printing during the year; and 36,460 titles and 1,039 index-slips for the General Catalogue, 4,802 titles for the Map Catalogue, and 13,814 for the Music Catalogue have been printed.

Another volume of the Subject Index, embracing the period 1901–1905, and containing 51,400 entries, was published in 1906.

Readers have now at their disposal a Subject Index of all modern works added to the Library between January, 1881, and December, 1905. The total number of entries in the four volumes of the work amounts to 206,400.

(c) *Incorporation.*—*General Catalogue.*—35,655 title-slips and 873 index-slips have been incorporated into each of three copies of this Catalogue. This incorporation has rendered it necessary, in order to maintain as far as possible the alphabetical arrangement, to remove and re-insert 47,251 title-slips in each copy and to add to each copy 1,007 new leaves.

The system of fortnightly incorporation of accessions to the Library has been carried out with perfect regularity during the past year.

Hand Catalogues.—The number of new entries made in the Hand Catalogue of “Academies” was 306; in that of “Periodical Publications,” 592; in that of Maps and Charts, 469; in that of Music, 1,058; in that of London Newspapers, 2,885; and in that of Directories, 978.

(d) *Map Catalogue.*—2,347 titles have been written for the Map Catalogue, and 2,890 title-slips have been incorporated into each of three copies of it. This incorporation has rendered it necessary to remove and re-insert 8,120 title-slips in each copy and to add to each copy 292 new leaves.

(e) *Music Catalogue.*—9,409 titles have been written for the Music Catalogue, and 10,070 title-slips have been incorporated into each of the two copies of it. This incorporation has rendered it necessary to remove and re-insert 18,860 title-slips in each copy of it and to add to each copy 407 new leaves.

(f) *Shelf Catalogue.*—For this Catalogue, in which the title-slips, mounted on cards, are arranged in order of press-marks, about 27,400 have been so mounted and about 112,500 have been incorporated in their proper order.

(g) *Catalogues of Books of Reference in the Reading Room.*—The additions and alterations in each of the four interleaved copies of the Catalogue of Books of Reference in the Reading Room, which are requisite in order to record the changes in this collection by the addition of new works and the substitution of new for earlier editions, have been made: the number of such additions amounts to 55.

Additions have also been made to the collection of books in the Galleries of the Reading Room by the incorporation of new works of interest and importance; and by the substitution of new for earlier editions. The number of such additions amounts to 84.

III. *Binding.*—The number of volumes and sets of pamphlets sent to be bound in the course of the year was

13,619, including 4,031 volumes of newspapers. In consequence of the frequent adoption of the plan of binding two or more volumes in one, the number of volumes returned was 9,995; in addition to which 91 volumes have been repaired in the binders' shops.

Besides this, the following binding work has been done in the Library itself:—6,323 volumes have been repaired; 354 broadsides, &c., have been inserted in guard-books, and 4,938 volumes of reports, parts of periodicals, &c., have been bound in a light style of binding.

The following maps, charts, &c., have also been bound or mounted during the year:—39 atlases and 72 volumes of the 25-inch Ordnance Survey have been bound; 716 Ordnance Survey Indexes have been mounted on cards; 270 maps have been mounted on linen, and 124 on cards; four portfolios have been made for special maps.

52,537 numbers of Colonial Newspapers have been folded into 969 parcels, and 1,011 such parcels have been tied up and labelled preparatory to being bound.

16 volumes of the Blue Copy of the General Catalogue, 13 volumes of the Red Copy, and 21 of the Green Copy have been broken up and rebound in 94 new volumes. Also, 352 columns have been re-laid in each of the three interleaved copies of the General Catalogue—a process rendered necessary by the accumulation of titles under certain headings.

IV. *Reading Room Service.*—The number of volumes replaced in the General Library after use in the Reading Room was 822,330; in the King's Library, 25,405; in the Grenville Library, 1,735; in the Map Room, 5,370; in the presses in which books are kept from day to day for the use of readers, 698,621; and in the Oriental Department, 469; making a total amount of 1,553,930 volumes supplied to readers during the year, exclusive of those to which the readers have personal access on the shelves of the Reading Room.

The number of readers during the year was 212,997, giving an average of over 702 daily, the room having been open on 303 days; with an average of over seven volumes daily for each reader.

Newspaper Room.—The number of readers during the year has been 19,723, giving a daily average of over 65, the room having been open on 303 days. The number of volumes replaced after use was 57,341, giving a daily average of 189 and of over two volumes to each reader, not reckoning volumes, chiefly Parliamentary Papers, taken from the shelves of the Newspaper Room by the readers themselves. In addition to the above, 1,350 country newspapers were brought up to the Library from the Repository at Hendon for the use of readers, and 82 visits were made to Hendon by readers.

Map Room.—281 visitors have been admitted to the Map Room for the purpose of special geographical research.

Photography.—There have been 356 applications for leave to photograph from books in the Library, and 1,013 volumes have been supplied to the applicants for this purpose.

V. *Accessions.*—(a) 28,498 volumes and pamphlets (including 180 atlases, &c., and 1,336 books of music) have been added to the Library in the course of the year. Of these, 6,291 were presented; 14,454 received under the provisions of the Copyright Act; 468 by Colonial Copyright; 694 by International Exchange; and 6,591 acquired by purchase.

(b) 64,977 parts of volumes (or separate numbers of periodical publications and of works in progress) have also been added to the Library. Of these, 1,967 were presented; 39,107 received under the provisions of the Copyright Act; 436 by Colonial Copyright; 481 by International Exchange; and 22,986 acquired by purchase.

(c) 1,793 maps in 11,238 sheets have been added to the collection in the course of the year. Of these, 879 maps in 1,255 sheets were presented; 684 maps in 9,183 sheets were received under the provisions of the Copyright Act; 65 maps in 65 sheets, by Colonial Copyright; and 165 maps in 735 sheets were acquired by purchase.

(d) 7,483 Musical Publications have been added to the collection. Of these, 6,999 were received under the provisions of the Copyright Act; 452 by Colonial Copyright; and 32 were acquired by purchase.

(e) The number of newspapers published in the United Kingdom, received under the provisions of the Copyright Act during the year, has been 3,300, comprising 216,650 single numbers. 1,148 of these newspapers were published in London and its suburbs; 1,626 in other parts of England and Wales and in the Channel Islands; 285 in Scotland; and 241 in Ireland. 252 sets, containing 35,886 numbers of colonial and foreign newspapers, have been presented; and 83 sets, containing 12 volumes and 15,055 numbers of current colonial and foreign newspapers, have been purchased.

(f) 4,128 articles not included in the foregoing paragraphs have been received in the Department. These consist of a Broadside, Single Sheets, Parliamentary Papers, and other miscellaneous items.

The total number of articles enumerated above, as having been received in the Department during the past year, exclusive of newspapers, is 106,879.

Acquisitions of Special Interest.—During the course of the year 1906 the unusually large number of 246 Incunabula was added to the Library; among these are many works of special interest and value, including two English books. The British Museum now possesses, exclusive of duplicates, 9,088 books printed before the close of the year 1500.

In addition to the two English Incunabula, 61 books printed in England or Scotland before the year 1640 were added to the Library during the year.

The most interesting among the English and Scotch books are—

“The Book of Good Maners.” Printed by William Caxton, 1487. In a stamped leather binding, probably the work of a provincial bookbinder, perhaps at Oxford or Cambridge, not long after the book was printed. Three other copies only of this book are known—one in the Library of Lambeth Palace, a second in the Cambridge University Library, and a third in the Royal Library at Copenhagen. The present copy wants six leaves, including the first and last, while several others have been cropped or injured.

“The Contemplacyon of Sinners.” Printed by Wynkyn de Worde, July 10, 1499. The meditations in English verse are attributed to Richard Fox, Bishop of Durham. The book is perfect and in good condition.

“The Christen State of Matrymonye.” Translated from the Dutch of Heinrich Bullinger by Miles Coverdale, 1543.

Coverdale, Miles: “The Christen rule or state of all the worlde,” 1547.

Lauder, William: “Ane Compendious and breue Tractate concernyng ye Office and dewtie of Kyngis, Spirituall Pastoris and temporall Jugis.” Printed by John Scot, 1556. John Scot had two presses, one in Edinburgh, the other at Saint Andrews; the present book, of which two copies only are known, was probably printed at Saint Andrews.

“An Exposition after the maner of a contemplacion upon the Li psalme.” Printed by Thomas Marshe for Michael Lobley, London. (Licensed in 1557–58.)

Seven early English Plays and Interludes, printed between 1560 and 1580:

- (1) “A newe Interlude of Impacyente poverté.”

John King, London, 1560.

No other copy of this book is known.

- (2) “The Enterlude of Johan the Euangelyst.”

John Waley, London, c. 1560.

No other copy of this book is known.

- (3) “A preaty new Enterlude of the Story of King Daryus.”

Hugh Jackson, London, 1577.

No other copy of this edition is known.

- (4) “An Enterlude called lusty Juuentus.”

John Awdeley, London, c. 1560.

No other copy of this edition is known.

- (5) “A pretie Enterlude called Nice Wanton.”

John Alde, London, c. 1560.

- (6) "The playe of the weather. A newe and a very merye enterlude made by John Heywoode."

John Awdeley, London, c. 1565.

- (7) "An enterlude of Welth and Helth."

Without imprint.

The book was entered at Stationers' Hall in 1557-8. No other copy of this book is known.

Knox, John : "An Answer to a letter of a Jesuit named Tyrie." Printed by Robert Lekpreuk, Saint Andrews, 1572.

Rollock, Hercules : "Epithalamium" on the marriage of King James VI. and Anne of Denmark. H. Charteris, Edinburgh, 1589.

Tarlton, Richard : "Tarlton's newes out of Purgatorie." Printed for T. G. and T. N., London, 1590.

Nash, Thomas : "Pierce Penillesse, his supplication to the Divell." Richard Jones, London, 1592.

Among the foreign Incunabula and later works, the following are of special interest :—

Petrarch : "Historia Griseldis." Printed by Ulrich Zell, Cologne, about 1470.

A broadside prospectus of an edition of Justinian's Codex, printed by Johann Sensenschmidt and Andreas Frisner, printers, of Nuremberg, in 1475. A copy of the book itself is in the Library.

Hermannus de Schildis : "Speculum manuale Sacerdotum." Printed at Mainz about 1475 by the "Printer of the Darmstadt Prognostication," who has not yet been identified.

Milis, Joannes de : "Repertorium Juris." Printed by Nicholas Goetz, Cologne, about 1475. With the printer's metal cut device.

Andreae, Joannes : "Additiones ad Speculum judiciale Durantis." Printed by G. Husner, Strassburg, 1476.

The "Legenda Aurea," translated into Italian by Niccolo Malermi, printed by Gabriel de Piero, Venice, 1477.

Vincent de Beauvais : "De liberali ingenuorum Institutione." Printed by the Brothers of the Common Life, Rostock, about 1476.

"Libellus de regimine rusticorum," by Werner Rolewinck. Printed at Cologne about 1478, in the types of Arnold ter Hoernen, who mostly published Rolewinck's books in the first instance.

"Rosarium odor vite." Printed in a type used by Stephen Planneck at Rome in 1479, and if by him one of his earliest books. A curious collection of moral extracts in Italian, with many words in the Neapolitan dialect.

A German version of the Vision of Tundal, with numerous woodcuts, printed by Johann and Conrad Hist, Speier, about 1480.

“Buch der Natur,” with woodcuts, printed by Anton Sorg, Augsburg, 1482.

Trovamala, Battista: “Summa Casuum.” Printed by Nicolaus Girardengus, Novis, 1484. The only book known to have been printed at Novi.

Paulus de Castro: “Consilia et allegationes.” Printed by Anton Koberger, Nuremberg, 1485.

A Psalter, printed by Georg Reyser, Würzburg, 1485. An unusually fine piece of printing.

“Diss Buch heysset Lucidarius.” Printed by Hans Schönsperger, Augsburg, 1488, with woodcuts.

“Le Livre et auctoritez des saincts docteurs touchant de l'aduenement du mauvais Antexpist.” Illustrated with twenty woodcuts. Six editions of this work are known, of each of which one or two copies only are extant. The two earliest were printed at Lyons, the two latest at Paris, and the two intermediate copies at one or other of these places or possibly at Angoulême. The present copy, hitherto undescribed, is one of two intermediate copies printed about 1490.

A Psalter, printed by Louis Cruse, Geneva, about 1494. Part of the Voynich collection described below, and therefore, like all the rest of the books in it, believed to be unique; the work, moreover, of a very interesting printer.

“Statuta d'Ascoli.” Printed by Joannes de Theramo, Ascoli, 1496. No other copy of this book is known.

“Coustumier de Normandie.” Printed by Jacques le Forestier, Rouen, 1497 or 1498.

A Missal of the use of Breslau, printed by Peter Schoeffer, Mainz, 1499.

A Missal of the use of Hildesheim, printed by Georg Stuchs, Nuremberg, 1499.

Erasmus, Desiderius: “Erasmi Roterodami Libellus de constructione octo partium orationis ex Britannia nuper huc perlatus.” Leipsic, 1518. A German edition of Erasmus' Latin Grammar for the use of Saint Paul's School.

A few books in bindings of special interest and value have been added to the Library during the year.

Among these are—

“Lettere de Messer Horatio Brunetto,” Venice, 1548. In a sixteenth century Venetian binding, in calf, with tooling of an oriental design peculiar to the late fifteenth and early sixteenth century binders in Venice.

A fine edition of "Eikon Basilike," 1649. Bound in richly tooled red morocco with the arms of Charles I.

"Book of Common Prayer," Oxford, dated 1681, but issued in 1689 or subsequently. Bound in red morocco with fine gold tooling and the arms of William and Mary.

Settle, Elkanah: "Fears and Dangers fairly displayed." London, 1706. Bound in black morocco with the arms of John, first Duke of Rutland; a fine specimen of Settle's bindings.

"Book of Common Prayer," Oxford, 1772. Bound in transparent vellum, with paintings in monochrome beneath the vellum. A good specimen of the work of James Edwards of Halifax, who patented a process for making vellum transparent in 1785.

Donations.—Among the many Donations with which the Library has been enriched during the year 1906 are the following:—

A collection of forty-six volumes containing Translations into Bohemian of the works of English and American authors, published in Prague between the years 1900–1904. The translations include the Dramatic Works of Shakespeare in 22 volumes, and novels and other books by J. M. Barrie, R. D. Blackmore, George Eliot, Nathaniel Hawthorne, Rudyard Kipling, Mark Twain, and other authors. *Presented by H.M. the King.*

A collection of one hundred and fifty-eight unknown books or editions, formed by Mr. W. M. Voynich. The collection includes fourteen incunabula; thirty-one books printed between 1500 and 1532; three editions of the "Sex Linguarum Dictionarius," 1536, 1541, and 1548; a copy of Stanford's "Plees del Coron," 1560, with an interesting portrait medallion of Queen Elizabeth stamped on the binding; four Icelandic books printed between 1691 and 1694; seventeen books printed in small towns such as Aix, Annecy, Assisi, Asti, Cuneo, Lodi, &c., and three separate issues of the Atlas of Italy by Giovanni Antoni Magini, published in 1620 and a few years later. *Presented by the Lord Strathcona and Mount Royal, the Hon. Walter Rothschild, M.P., and others.*

"Über den Durchstich der Landenge von Stagno." (By Archduke Ludwig Salvator.) Prague, 1906. *Presented by H.I. and R.H. the Archduke Ludwig Salvator.*

"The Bishop Collection in the Metropolitan Museum of Art of the City of New York. Investigations and studies in Jade." 2 vols. Privately printed, New York, 1906. *Bequeathed by the late Mr. Heber R. Bishop.*

"Monumenta Pulveris Pyrii." Reproductions of ancient pictures concerning the history of Gunpowder, with explanatory notes by Oscar Guttman. Printed for the Author, 1906. *Presented by Oscar Guttman, Esq.*

A Collection of Newspapers published in the British Colonies during the year 1905, in continuation of the series previously presented. *Presented by the Royal Colonial Institute.*

Music.—The most interesting accessions to the Musical Library have been—

Wilflingseder, A.: "Musica teutsch," Nuremberg, 1572, interleaved with a partial translation into English in the handwriting of R. L. Pearsall.

"Offertoria totius anni," by J. P. A. Palestrina. Venice, 1594.

Pallavicino, Benedetto: "Sacrae Dei Laudes." Venice, 1605.

"The Banquet of Musick; or a Collection of the newest and best Songs." Printed by E. Jones, for Henry Playford, in the Savoy, 1689-1691.

"A Collection of the best Scots Tunes, by A. Munro." Paris, 1723.

G. K. Fortescue.

DEPARTMENT OF MANUSCRIPTS.

1. *Catalogue of Additions*.—All the MSS. acquired in 1906, viz. Additional 37233-37425 and Egerton 2862-2866, have been described and (with the exception of Additional 37348-37397) have been indexed. The descriptions have also been revised.

The descriptions of MSS., etc., acquired in 1905 have been printed. The revision of the Index to the Sexennial Catalogue for 1900-1905 has been completed, and the Index, A-L, has been printed off.

2. *Catalogue of Papyri*.—The preparation of descriptions, transcripts, annotations, etc., has been completed for Vol. III., and the text printed. The Index is well advanced, and 72 out of 100 plates have been printed off.

3. *Catalogue of the Royal MSS.*—One hundred and eighty-five MSS. in the Royal collection have been described for the new Catalogue in progress.

4. *Catalogue of Music*.—Vol. I. (Sacred Vocal Music) has been bound and issued, the revision of descriptions for Vol. II. (Secular Vocal Music) has been completed, and sheets Y-2 V (end of text) have been printed off. The Index is in course of preparation.

5. *Catalogue of Romances*.—Progress has been made in the preparation of Vol. III.

6. *Catalogue of Charters*.—Additional Charters 47734-48170, 51533-52391 (acquired in 1903), and 53121-53194 (acquired in 1904), have been described and indexed.

The revision of topographical entries from Charters acquired in 1882-1890 for incorporation with the corresponding slips of the old collections and of the later acquisitions down to 1881, to form Vol. II. of the General Index of Charters, has been continued, letters A-G and part of H being ready for press.

7. *Class Catalogue of MSS.*—The printed descriptions of Additional MSS. acquired in 1905 and of Egerton MSS. acquired in 1900-1905 have been incorporated.

8. *Binding*.—Two hundred and eighty-three Additional MSS. and one Egerton MS. newly acquired, and one hundred and forty-six MSS. of the old collections, have been bound or repaired, together with fifty-four Books of Reference and Catalogues.

One hundred and ten Charters have been repaired.

Ninety-nine Papyri have been bound and glazed.

9. *Verification*.—The entire collection of MSS. and some portion of the Additional Charters have been verified by comparison with the Shelf- and Box-Lists.

10. *Exhibitions*.—A new Guide to the re-arranged General Collection of MSS. exhibited to the public has been completed and issued. Series I. of Reproductions from Illuminated MSS. exhibited has been prepared.

11. *Stamping, folioing, and placing*.—One hundred and ninety-eight Additional MSS., eight hundred and thirty-nine Charters and Rolls, and one hundred and thirty-seven Books of Reference have been stamped, with a total of 21,619 impressions.

Two hundred and nine MSS. have been folio'd, with a total of 51642 folios. 25321 Index-slips, etc., have also been numbered.

Four hundred and fifty-eight MSS. and one hundred and fifty-seven Papyri have been placed, press-marked, and entered in the Hand- and Shelf-Lists. Sixty-eight Charters and Rolls have been placed and entered in the Inventory. Numbers have been written on five hundred and nineteen Charters and Rolls.

A new Hand-List has been made for the Harleian MSS. A Hand-List of Additional Charters and a Shelf-List of Exhibited MSS. are in progress.

Thirty-nine Seals and Casts have been provided with boxes, placed and entered in the Inventory.

12. *Books of Reference*.—One hundred and forty-four volumes and parts have been received, catalogued, and placed, and some progress has been made in the re-arrangement of Books in the Working Room.

13. *Consultation of MSS.*—The number of MSS. consulted in the Students' Room attached to the Department was 32934, and of those delivered in the Reading Room 478.

The number of Charters, Rolls and Seals consulted was 4196.

The number of Students working in the Department was 11414.

Magna Charta was exhibited to 8634 visitors.

14. *MSS. photographed*.—Five hundred and twenty-six MSS. (including Charters and Seals) were allowed to be photographed, with a total of 1340 photographs taken.

15. *Acquisitions*.—The number of Manuscripts and Documents, etc., acquired during the year has been—

Additional MSS.	-	-	-	-	-	-	193
Egerton MSS.	-	-	-	-	-	-	5
Charters and Rolls	-	-	-	-	-	-	73
Detached Seals and Casts	-	-	-	-	-	-	40
Papyri	-	-	-	-	-	-	235

His Majesty the King graciously presented to the Department two charred papyrus rolls from Herculaneum, which originally formed part of the gift of the Neapolitan Government to H.R.H. George, Prince of Wales, in 1803-6. Five rolls from the same collection were presented to the British Museum by H.M. Queen Victoria in 1865; the rest were destroyed in unsuccessful attempts to open them. Of the two rolls now presented, one has been opened, and contains portions of the work of Epicurus, *De Natura*; the other is unopened.

Another notable donation of Greek papyri consists of twenty-two papyri from Oxyrhynchus (Behnesa) presented by the Egypt Exploration Fund. These MSS. (the texts of which have been published by Dr. B. P. Grenfell and Dr. A. S. Hunt, the discoverers) include several literary works of great interest, notably (1) a fragment containing Sayings of our Lord, probably from the same collection (though not the same MS.) as the fragment published in 1897, and including the introductory paragraph, which appears to assign the authorship of the collection to Thomas and another apostle; (2) considerable portions of an Epitome of Livy, differing from that hitherto known and covering books 37-40 (the complete text of which books is extant) and 48-55 (the text of which is lost); this MS., which can be assigned to the 3rd century, is also of great palæographical value, early dated Latin MSS. being extremely rare; (3) a large part of the Epistle to the Hebrews (ii. 14-v. 5, x. 8-xi. 13, xi. 28-xii. 17), written on the back of the Livy, late in the 3rd or early in the 4th century; its text agrees in the main with that of the Codex Vaticanus where that is extant, and it is consequently important as indicating the probable text of that MS. in the latter part of the Epistle, where it is defective; (4) about five columns of lyric poetry which may be assigned with confidence to Pindar, including an ode to be sung by a chorus of maidens, a class of Pindar's works not hitherto extant; (5) a vellum leaf of a life of Alcibiades, written in a fine hand of about the 5th century. The rest of the donation includes a number of non-literary documents in good condition, of historical and palæographical importance.

The Department has also acquired by purchase a large collection of Greek papyri, including a few literary fragments of minor interest, but consisting mainly of miscellaneous documents of the Roman and Byzantine periods, which will furnish material for a future volume of the Catalogue of Papyri, and will contribute their share to the increasing knowledge of these periods which is being derived from the many publications of such texts now proceeding from all civilised countries, and in which the publications of this Department have taken an important part.

Among other purchases the most important historically is a large collection of Wellesley Papers, now divided into forty-eight volumes. It chiefly consists of the political

and private correspondence of the Marquis Wellesley from his appointment to be Governor-General of Bengal in 1797 down to his death in 1842, and includes a large number of confidential letters from George IV., the Duke of Wellington, Canning, Dundas, Lord Liverpool, S. Perceval, Lord Grenville, Peel, Lord Grey, Lord Melbourne, and many other leading politicians of the time. The collection was reserved when the rest of Lord Wellesley's papers, which are of a less intimate character and relate almost exclusively to his government of India, were presented to the Museum in 1842.

The official correspondence of the well-known diplomatist Charles Whitworth, first Lord Whitworth, in fifty volumes, has also been acquired. It covers the years 1702-1725, during which he was British representative at Ratisbon, Vienna, Moscow, Berlin, and the Hague, and at the Congress of Cambray, and was chiefly carried on with successive Secretaries of State and English and foreign ministers abroad.

The principal bequest received during the year was from Mr. Robert Pearson Brereton, of Oundle. It consists of his collections in twenty-three volumes relating to the churches of north Northamptonshire and Rutland and to the church-towers of Somerset, and includes, besides notes and an incomplete architectural history of the buildings, nearly eight hundred permanent photographs taken by himself.

Among other additions, by purchase, donation, or bequest, are the following :—

Gospels, in Greek, with illuminated head-pieces; late 10th cent.

St. Augustine, "De opere monachorum," etc., three quires of a MS. in Caroline minuscules of the 9th cent.

Breviary, pars hiemalis, of Paris use, with illuminated initials, *circ.* 1300. Belonged to the Collège de Clermont at Paris.

Vitæ Patrum, and other lives of saints, written in Germany; early 14th cent.

A volume of English Metrical Romances, including King Richard, Bevis of Hampton, Florence and Blanchefloure, The Battle of Troy, Amys and Amylion, etc.; *circ.* 1400.

Chaucer's Canterbury Tales: the "Norton" MS., on vellum; 15th cent.

Chaucer's Canterbury Tales, with Lydgate's Story of Thebes: the "Ingilby" MS., on paper; 15th cent.

Breviary, of Ambrosian use, with coloured initials, written by Antonio de' Uberti, in the diocese of Milan, in 1402.

Gospels, in Slavonic, with prefaces, etc.; 16th cent.

Letter from Captain W. Fenner to the Lord Admiral, reporting his discovery of a large vessel of the Spanish Armada in Havre Roads, 25 August, 1588.

Narrative, in Latin, by Father John Gerard, Jesuit, of his proceedings in England, written about 1609: 17th century copy from the original at Rome.

Draft order for settling the militia in Scotland, with curious marginal notes in the hand of Charles I. [1642].

Draft by Sir E. Hyde of the letter of Charles II. to the House of Lords enclosing his Declaration; Breda, $\frac{4}{14}$ April, 1660.

Report by a captain in the Duke of York's squadron of the action with the Dutch off Harwich; 3 June, 1665.

Bulstrode Whitelocke's "Annals of his own Life," in his own hand, ending with an account of his embassy to Sweden in 1653-4. Seven volumes.

Letters of British Ministers abroad and others to George Stepney, Envoy to Berlin, Vienna, etc.; 1691-1706.

Dispatches of H. St. John, Viscount Bolingbroke, and other Secretaries of State to the Earl of Strafford and John Robinson, Bishop of Bristol, Plenipotentiaries for the Treaty of Utrecht; 1711-1714. Two volumes.

Letters of Admiral Sir Alex. J. Ball, Bart., Governor of Malta, to Granville Penn, on political affairs and the situation in Malta, Egypt, etc.; 1802-1805.

Letter of Napoleon Bonaparte, as First Consul, to the Minister of War, 1803; and an order of Admiral Sir W. Sidney Smith, 1813. *Presented by the Rev. John Charles Elgood.*

Letters and orders of Lord Collingwood, as Commander in Chief of the Mediterranean Fleet; 1806-1809.

Letter of General Grouchy, Governor of Madrid, to Prince Murat, giving an account of the revolt in Madrid against the French; 3 May, 1808.

Letter of General Latour-Maubourg, commanding the French cavalry, to Marshal Soult, giving his report of the battle of Albuera (16 May); 27 May, 1811.

Pass-words for the Court and the City for each day in the months of July 1812 and November 1820, signed by George IV. as Prince Regent and as King. *Presented by His Majesty the King.*

Letters of Comte Adolphe de Circourt to H. Reeve on French and general European politics; 1849-1853. Two volumes.

Impressions of the Great Seal of King Edward VII. for the United Kingdom and for Scotland and Ireland, *Presented by the Right Hon. W. G. E. Macartney, Deputy Warden of H.M. Mint.*

Abridgement of law cases, compiled *circ.* 1620–1635, based on the rolls of the prothonotaries of the Court of Common Pleas.

Arms in colour of the Knights of the Garter from the foundation of the order, with badges, biographical notes, etc.; apparently begun about 1488 and continued to 1521.

Confirmation of arms to Thomas Le Blanc, of London, and other descendants of David Le Blanc, of Rouen; 1753. With arms in colour.

“The French Royal Greek Types and the Eton Chrysostom,” by Robert G. C. Proctor, 1903. Autograph, being the last bibliographical paper of the author, who was lost in the Alps in the same year. *Presented by A. W. Pollard, Esq.*

Two lectures on Illuminated MSS., delivered at Cambridge by H. Yates Thompson, Sandars Reader in Bibliography, 1905. *Presented by the Author.*

Lectures on Illuminated MSS., delivered at Cambridge by Sir E. Maunde Thompson, K.C.B., Sandars Reader in Bibliography, 1906. *Presented by the Author.*

Diary of Adam Winthrop, of Groton Manor, co. Suffolk, father of John Winthrop, Governor of Massachusetts; 1592–1610. *Bequeathed by Robert C. Winthrop, of Boston, U.S.A.*

Journal of John Law, surgeon of the “Discovery,” on the third voyage of Capt. James Cook to the South Seas, with full particulars of the death of Capt. Cook at Hawaii; 1778, 1779. *Presented by C. G. Lawrence-Law, Esq.*

Register of the dining-club called the “King of Clubs,” chiefly in the hand of the Rev. Sydney Smith; 1798–1821. *Presented by Cosmo Romilly, Esq.*

Journal of Henry Kirk, of Norton Folgate, London, 1816–1818; written in cypher. *Presented by Eustace Neville-Rolfe, Esq., Consul General at Naples.*

Memoirs of Toussaint Ambroise Talour de la Cartrie, Comte de la Villenièrre, an officer in the Royalist army of La Vendée in 1793–1794, and subsequently a refugee in England, where he was known as the Count de Cartrie: an English translation made from the French original, now lost. *Presented by John Lane, Esq., who published the Memoirs in 1906.*

Nine letters from Benjamin Disraeli to his sister, on political matters, etc.; 1839–1845.

Twenty-one letters of David Livingstone, during his return journey from Loanda to the Zambesi, addressed to

Edmund Gabriel at Loanda; 1 October, 1854—12 August, 1855.

Three letters of Card. J. H. Newman to J. Lewis, with reference to his *Letter to the Duke of Norfolk* (1875); 1877.

Letters (single) from the animal-painters John Sartorius, junr., 1802, and John Francis Sartorius, 1828. *Presented by Mr. E. E. Leggatt, printseller.*

Nine letters of Sir Walter Scott to Miss Anna Seward, of Lichfield, on literary and other matters; 1802—1808.

Letter from Honoré de Balzac to A. Borget, with reference to *Père Goriot*, Mme. de Berny, etc.; March, 1835.

Drawings of architectural details of English churches, castles, old houses, etc., by C. A. Buckler; 19th cent. (from 1843). *Bequeathed (with other MSS. received in 1905) by the Artist.*

Drawings of churches in co. Northampton, with notes, by Gilbert Fletcher, of Towcester; 1807—1812. Three volumes. *Presented by H. S. Smith-Rewse, Esq.*

Court-rolls and terrier of Herringswell, co. Suffolk, with six charters relating to Cambridgeshire; 14th cent. *Presented by Ronald Lyvett, Esq.*

Transcripts by the Rev. Edward Cookson, M.A., of registers of churches in Ipswich, co. Suffolk; 1559—1837. *Presented by the Rev. E. Cookson.*

Deeds (60) relating to Caterham, co. Surrey; 16th—18th cent. *Presented by the Rev. Joseph Hewetson.*

Crown-grants (3) of Stanstead and other manors, co. Sussex; 1555—1587. *Presented by Mrs. Albert Way.*

Coloured map and full particulars of the lands of Richard Bridger, Esq., in Warminghurst, co. Sussex; 1707.

Court-book of the manors of Bromham-Baynton, Bromhill, Stanley, etc., co. Wilts, belonging to Sir E. and Sir H. Baynton; 1565—1612.

Collections by James Sykes, relating to the family of Sykes, of Yorkshire and elsewhere. Five volumes. *Bequeathed by the Collector.*

Collections by the late Sir H. Dryden, Bart. (d. 1899), relating to Broughs, Picts' Houses, Stone Circles, etc., in Scotland and the Shetland Isles, with drawings, plans, etc. Seven volumes.

Charter of Queen Eleanor, widow of Henry II., to the Abbey of Fontevrault; 1199.

Compositions in four, five, and six parts for viols by English and Italian composers; early 17th cent.

"Samson," oratorio in full score by G. F. Handel, with "cuts" indicated in the composer's autograph; *circ.* 1750.

Vocal duets and canons, by Giuseppe Aprile, 1776. *Presented by F. G. Edwards, Esq.*

Symphony in D, by Charles Edward Horsley: autograph full score, 1844.

Drum and organ parts to "Palestine," an oratorio by Dr. W. Crotch: autograph additions for a revival about 1830.

"May Day," cantata by Sir G. A. Macfarren: the conductor's score for the first performance; 1856.

Music, with words, of the Russian National Anthem (composed in 1833), in the autograph of the composer Alexis de Lwoff; 1858.

"Cantica," in the autograph of Giuseppe Verdi, composed for the opening of the Exhibition in London in 1862.

"The Sleeping Queen," opera in the autograph of Michael William Balfe; 1865.

"Prinz Methusalem," operetta in full score in the autograph of Johann Strauss, junr.; *circ.* 1876.

George F. Warner.

DEPARTMENT OF ORIENTAL PRINTED BOOKS AND
MANUSCRIPTS.

Cataloguing and Arrangement.—The numbers of the sheets of the various Oriental Catalogues sent to the press in 1906 are :—Arabic Accessions, 3 sheets ; Gujarati Accessions, 3 sheets ; Marathi Accessions, 6 sheets ; Sanskrit Accessions, 20 sheets.

The numbers of the Titles written for the various Catalogues are :—Arabic, 274 ; Armenian, 37 ; Assamese, 17 ; Baluchi, 18 ; Bengali, 90 ; Burmese, 114 ; Canarese, 142 ; Chinese, 734 ; Coptic, 4 ; Ethiopic, 10 ; Garo, 4 ; Gujarati, 125 ; Hebrew, 271 ; Hindi, 221 ; Hindustani, 359 ; Japanese, 179 ; Kashmiri, 2 ; Kurukh, 6 ; Kurdish, 2 ; Malay, 28 ; Malayalam, 30 ; Mandaitic, 2 ; Marathi, 113 ; Mundari, 2 ; Nepali, 2 ; Oriya, 17 ; Pahlavi, 4 ; Panjabi, 66 ; Persian, 1,343 ; Pushtu, 23 ; Sanskrit, 599 ; Sindhi, 36 ; Sinhalese, 5 ; Syriac, 22 ; Tamil, 168 ; Tigré, 1 ; Telugu, 53 ; Tibetan, 463 ; Turkish, 28 ; Zend, 10.

Twenty Arabic MSS. and 33 Hebrew MSS. have been fully catalogued.

Short descriptions of 200 MSS. acquired have been entered in the Descriptive List, the Register, and the Classed Inventory.

Seventy MSS. (ff. 8,956) have been folio'd.

Binding.—The numbers of Printed Books and MSS. sent to the Binders are :—Arabic Books, 120 ; Chinese Books, 64 ; Hebrew Books, 68 ; Persian Books, 121 ; Sanskrit Books, 229 ; MSS., 92 ; Pamphlets, 57.

Students.—The number of Students working in the Students' Room attached to the Department during the year is 3,313. The number of Oriental Printed Books consulted in the Department is 5,081, and of those used in the Reading Room 469. The number of Oriental MSS. consulted in the Students' Room is 5,594.

Photography.—Eighty-six applications have been made to photograph from books and MSS.

Additions.—The number of works added to the Department during the year is 2,204, of which 1,986 are Printed Books and 218 are MSS. Of the Printed Books, 869 were bought ; 733 were received under the India Copyright Act ; 46 were received under the Colonial Copyright Act ; and 338 were presented.

The MSS. are :—

Arabic	-	-	-	-	-	9
Arabic-Persian	-	-	-	-	-	1
Burmese	-	-	-	-	-	1
Chinese	-	-	-	-	-	21
Coptic	-	-	-	-	-	19
Hebrew	-	-	-	-	-	5
Mandaïtic	-	-	-	-	-	1
Pali	-	-	-	-	-	2
Persian	-	-	-	-	-	6
Sanskrit-Tibetan	-	-	-	-	-	2
Syriac	-	-	-	-	-	2
Tibetan	-	-	-	-	-	145
Turkish	-	-	-	-	-	4
						<hr/>
						218

The most important acquisitions are :—

Arabic MSS.—1. Part of the *Rasā'il Ikhwān al-Ṣafā*, an encyclopædia of philosophy compiled by the society of the *Ikhwān al-Ṣafā* or "Brothers of Purity" (Xth cent.). Part iii., treatise 5—part iv., treatise 3. A.H. 646 (A.D. 1248). 8°.

2. *Kitāb al-masā'il fi al-ṭibb*, a manual of medicine in catechetical form by Ḥunain ibn Ishāk (died A.H. 294), with an anonymous commentary. XIIIth cent. 8°.

3. A commentary by Aḥmad b. al-Ḥasan al-Jārabardī (died at Tabriz in A.H. 746) upon the *Minhāj al-wuṣūl*, a treatise upon the bases of Muhammadan law by al-Baidāwī (died A.H. 716). Books 4-6. A.H. 718 (A.D. 1318). 8°. No manuscript of this commentary appears to be known in Europe.

4. *ʿAwārif al-maʿārif*, a systematic treatise on Sufism by Shihāb al-Dīn ʿUmar ibn Muḥammad al-Suhrawardī (died A.H. 632). 8°. Written in Shiraz A.H. 729 (A.D. 1329).

5. A detached volume of a work on Shāfiʿī law by Muḥammad b. Bahādur al-Zarkashī (died A.H. 794), entitled *Khādim al-Rāfiʿ wa'l Raudah*. A.H. 854 (A.D. 1450). 4°. Manuscripts of this work are very rare.

6. *Asās al-iḳtibās*, an anthological work by Ikhtiyār ibn Ghīyāth al-Dīn al-Ḥusainī, completed in A.H. 897 (A.D. 1492). XV-XVIth cent. 8°.

Chinese MSS.—1. A treatise on the recognition of one's own faults (*Chih kwo lun*), by the Emperor K'ien-lung, in

the handwriting of the author, with his seal and signature. This manuscript, which is elegantly written and enclosed in finely carved boards and case, was taken from the Summer Palace by General Montauban in the campaign of 1860. Written A.D. 1782. Fol.

2. A chronicle, by the Emperor K'ien-lung, of the ten successful military campaigns conducted by him. The MS. is a copy made by the minister Wu Shêng-lan. 12°.

3. A treatise on the "Great Plan," one of the Chapters of the Book of History, by the Emperor K'ien-lung. Embroidered in silk, roll form.

Chinese Printed Books.—1. A collection of about 850 Chinese volumes, forming the greater part of the Chinese library collected by the late T. Watters, consisting mainly of Buddhist works and of works on the geography of Buddhist countries; together with a very fine copy of the Chinese classics. This collection throws a valuable light on the places visited by the early Chinese Buddhist travellers in India and in the intermediate countries.

Coptic MSS.—1. Fifty folios of the Pauline Epistles, in the Sahidic version. V-VIth cent.

2. Twelve documents on papyrus, belonging to a series discovered in the monastery of Tchêne in Western Thebes, of which the British Museum already possesses 70. They consist of wills, deeds of sale, records of disputes over inheritance, &c., and belong to the first half of the VIIIth cent. A.D.

Hebrew MSS.—1. Šeri hag-gūf, a treatise on medicine by Nathan b. Joseph Palquera. Dated A.M. 5192 (A.D. 1432). 4°.

2. A marriage-contract between Ephraim b. Kalonymos Sanguini and Luna, daughter of Mordecai Fano. The oldest illuminated Hebrew document of the kind hitherto made known. Modena, A.D. 1558.

3. A commentary on the first part of the Mishnah, called Seder Zera'im, by Isaac b. Melchizedek. Vellum, A.M. 5047 (A.D. 1287). 12°.

4. Prayer-book of the German rite. Vellum, XIII-XIVth cent. 12°.

5. Services for the New Year and Day of Atonement, characterised by features of the rare old French ritual. Written in Corfu in the XVIIIth cent. 8°.

Hebrew Printed Books.—1. The first edition of David Kimhi's Hebrew Dictionary. Printed before 1480, probably at Rome.

2. Sefer Habakbuk, a parody on the feast of Purim, written in imitation of the prophetic style of the Old Testament. Printed at Pesaro, A.D. 1513.

3. Massekheth Purim, a parody on the feast of Purim, written in imitation of the Talmudic style. Printed at Pesaro near the beginning of the XVIIth cent.

4. L'Ornement Hébraïque, par D. Gunzburg et V. Stasoff. 1905. A large portfolio containing coloured reproductions of Hebrew manuscript illuminations.

Mandaitic MSS.—1. A manuscript containing part of the Kolasta, comprising the Book of Souls, and hymns. XIXth cent.

Pali MS.—1. The Upari-pannāsa, the third section in the Majjhima-nikāya of the Sutta-piṭaka. Written in the old Burmese square character, on palm-leaves. Early XIXth cent.

Persian MSS.—1. A *divān* of poems (*ghazals*) by Zaki Hamadānī (died A.H. 1030). A.H. 1036 (A.D. 1621). 8°. The *Divān* of a very little known author, no copy of which is at present recorded to exist in Europe.

2. *Sālūtar*, a treatise on farriery, being the Persian translation of the Sanskrit *Sālihotra*, made by order of 'Abd Allāh Khān Firūz-jang about A.H. 1037. With 17 miniatures. A.D. 1851. 4°.

Sanskrit and Tibetan MS.—1. *Abhidhāna-muktāmālā*, in Tibetan mNgon brjod mu tig phreng ba, a vocabulary of Sanskrit synonyms, with Tibetan interpretation. XVII-XVIIIth cent.

Syriac MSS.—1. A volume containing (1) the Book of Gifts, by Mār Shubbha le-Mārān : (2) a homily on the solitary life, addressed to monks and others by Abraham of Nephtar : (3) an account of persecutions of Christian Fathers, by Bar-Ḥadbeshabba : (4) a homily of Theodore [of Mopsuestia] against the followers of Macedonius, &c. Vellum, IX-Xth cent. 8°.

2. *Minor Offices of the Nestorian Church.* A. Gr. 1909 (A.D. 1598). 8°.

Tibetan MSS.—1. The Kanjur (bKa-'gyur), the first or scriptural section of the Buddhist Canon of Tibet, in 106 large folio volumes, finely written and illuminated.

2. Three copies of the *Pañcha-vimśati-sāhasrika-Prajñā-pāramitā*, one of the great philosophical works of the Buddhist scriptural canon, in large folio volumes, finely written in gilt letters.

3. A copy of the same work remarkable for its extremely archaic spelling. Fol.

4. *Ashta-sāhasrika-Prajñā-pāramitā*, one of the chief philosophical works of the Buddhist scriptural canon, finely written in gilt letters, and enclosed in beautifully carved wooden boards. Large fol.

5. The Bhadra-kalpika-sūtra, one of the chief sacred texts of Northern Buddhism. Fol.

6. Nineteen miscellaneous manuscripts treating of the ritual and religious doctrine of various Tibetan sects.

7. A record of the foundation of the monastery of Urgyan gling.

8. rGyal rabs, a standard history of the kings of Tibet.

9. The Kalāpa-vyākaraṇa, *i.e.*, the Kā-tantra, a well-known series of aphorisms on Sanskrit grammar, with a commentary, in Tibetan. 10 pts. Fol.

10. Three sets of musical scores for ritual chanting.

Tibetan Printed Books.—1. The Tanjur (bsTan-'gyur), the second great section of the Tibetan Canon, in 214 volumes. Fol.

2. About 200 miscellaneous volumes and tracts, chiefly treating of the religious doctrine and practice of the various sects of Tibet, and especially of the dGe-lugs-pa school.

The above Tibetan collections were presented by the Government of India in 1905.

Turkish MSS.—1. Ottoman Annals. A.H. 1203-1206 (A.D. 1788-1792). A full court chronicle, without author's name. XVIIIth cent. (before A.H. 1229, A.D. 1814). 8°.

2. Tārīkh i Ṭamashvārī, a history of Turkey from A.H. 1094 to 1157 (A.D. 1683-1744), by Ibrāhīm Na'im al-Dīn Ṭamashvārī. Composed in A.H. 1178 (A.D. 1764). XVIIIth cent. 8°.

3. Vard i muṭarrā, lives of Grand Viziers of Turkey from Rāghib Muḥammad Pāshā to Yūsuf iyā Pāshā (A.H. 1171-1217). Composed in A.H. 1217 (A.D. 1803) by Aḥmad Jāvīd Bey. Early XIXth cent. (before A.D. 1822). 8°.

Robert K. Douglas.

DEPARTMENT OF PRINTS AND DRAWINGS.

I.—*Arrangement and Cataloguing.*

The prints and drawings contributed to the Nelson exhibition in the King's Library have been removed and been replaced by an exhibition of the series of portrait drawings by Henri and Rudolf Lehmann, recently acquired.

A selection has been made of prints and drawings of all schools and periods, to be reproduced for the proposed loan collection of 240 lantern slides, and the slides have been completed and delivered.

The work of sorting and arranging in wrappers the collection of portraits of English royal personages bequeathed by Lord Cheylesmore has been completed, and references to it have been inserted in the index of English Portraits.

The collection of fifteenth and sixteenth century printed books illustrated with woodcuts, presented by Mr. William Mitchell in 1904, has been definitely arranged with a few of similar character otherwise acquired, the volumes being grouped, so far as difference of size would permit, in the alphabetical order of their places of printing. A list of the books in this class, 85 in number, of which the Department of Printed Books does not possess copies, has been drawn up and sent to the keeper of that Department in order that the titles and references may be inserted in the Library Catalogue.

All the Italian drawings belonging to the Malcolm and Vaughan collections have been incorporated with the main series in a single alphabetical order.

The collection of etchings and lithographs by J. McNeill Whistler has been mounted, lettered, and arranged in eight solander cases.

The mounting and lettering of the etchings by Charles Méryon have been completed, and the collection has been arranged in seven solander cases.

The collection of prints after English masters has been examined, and all woodcuts, the subjects of which were drawn on the blocks by the original artists, have been removed and formed into a separate series of English woodcuts arranged under the designers' names in two portfolios.

The collection of unmounted German etchings has been arranged in two portfolios.

The collection of etchings and woodcuts by Robert Bryden has been arranged in a portfolio.

The collection of photographs executed for the National Photographic Record and survey has been sorted and arranged topographically in eighty boxes in one of the two basement rooms placed at the disposal of the Department of Prints and Drawings by the Department of Printed Books.

The loan collection of framed duplicate engravings has been removed to and arranged in the adjacent basement room, together with all spare exhibition frames belonging to the Department.

Eight hundred and twenty-eight prints and one hundred and forty-two drawings recently acquired have been incorporated with the collections to which they severally belong.

The collection of eighteen hundred and fifty-one Japanese colour-printed woodcuts (on two thousand one hundred and one sheets), acquired from Mr. Arthur Morrison, has been received, checked, and sorted as a preliminary to the work of registration and mounting.

All books of prints and books of reference recently acquired have been catalogued, labelled, and placed on the shelves.

The preparation of a general catalogue of the collection of English Portraits has been resumed.

The preparation of a descriptive catalogue of the collection of Early German and Flemish Woodcuts has been continued, and the MS. of the whole division relating to the School of Augsburg completed and prepared for press.

Vol. IV. of the catalogue of English Drawings, containing in alphabetical order the names from S to Z, has been completed and is passing through the press. The preparation of a supplementary volume has been commenced.

The preparation of a catalogue of the collection of drawings by Rembrandt, for departmental use, has been completed; a subject index to his drawings and etchings, and a bibliography of the subject, have also been drawn up.

The preparation of a descriptive catalogue of the collection of fifteenth-century Italian Engravings has been commenced and completed so far as concerns the Florentine School.

A MS. index to the recently published "List of Works of Early English Engravers" has been prepared.

Titles have been written for articles in the "Gazette des Beaux Arts" and various other foreign periodicals for insertion in the catalogue of Books of Reference.

The collection of Turner's "Liber Studiorum" has been marked off in the new edition of Rawlinson's catalogue.

The collection of foreign royal portraits has been provided with new wrappers.

The preparation of an index to the Banks collection of shop bills, invitation cards, &c. has been continued.

The transcription for press of the catalogues of English Portraits and English Drawings has been continued.

Eleven hundred and fifty-five items have been entered in the Register of acquisitions.

Three thousand two hundred and four prints, drawings, &c. recently acquired, have been impressed with the departmental stamp and references to the Register.

The work of preparing, specially repairing, and mounting a selection from the Cheylesmore collection of mezzotint portraits, additional to that shown in the exhibition gallery, has been continued. Three hundred "ordinary" mezzotints belonging to the same collection have been fixed in wrappers for their better preservation.

Five hundred and ninety-nine drawings and prints have been prepared and mounted on sunk mounts, and five hundred others have been mounted in the ordinary manner.

The total number of students admitted to the Print Room during the year ending 31st December 1906 was 8,396.

Three hundred and fifty applications were made for leave to photograph objects in the collection and 2,017 photographs were taken.

II.—*Additions.*

The total number of prints, drawings, &c. acquired during the year was 4,176, of which the following are the most important:—

ITALIAN SCHOOL.

Drawings.

Credi, Lorenzo di. Study of a child's arm; silver-point heightened with white. From the Lely collection.

Galli, Francesco (da Bibiena). Five designs for operatic scenery; pen and sepia. *Presented by Col. Croft Lyons through the National Art Collections Fund.*

Robusti, Jacopo (Tintoretto). Assumption of the Virgin; sketch in oils on paper; a fine and important example.

Prints arranged to illustrate the Works of Masters.

Vinci, Leonardo da. Mona Lisa; woodcut by A. Krüger; printed in colours.

GERMAN SCHOOL.

Drawings.

Dürer, Albrecht. Christ on the cross between the Virgin and St. John; with two separate studies for the Virgin and one for the crucifix; pen and ink; an interesting small example hitherto unknown.

Woodcuts.

Master H.M. "Das gantze Leben vnd Historia des . . . Hertzogen Friderichen, Churfürsten zu Sachsen," &c.; large sheet of cuts by a Saxon artist, c. 1554. *Transferred from the Department of Printed Books.*

Engraving.

Master B.M. (fifteenth cent.). Two knights in armour. (Pass. ii. 241, 217). The only known impression with the monogram.

SCHOOLS OF THE NETHERLANDS.

Drawings.

Vos, Maarten de. Thirty-one designs of New Testament subjects; pen and bistre.

Engraving.

De Bry. Triumphal arch commemorating the marriage of Frederick, Elector Palatine, with Elizabeth of England.

Prints arranged to illustrate the Works of Masters.

Potter, Paulus. Equestrian portrait of Dirk Tulp; by Pieter Dupont; engraved at the expense of Dr. Six. *Presented by Dr. J. Six van Hillegom.*

FRENCH SCHOOL.

Drawings.

Massard, Léopold. Portrait of Francis I., Emperor of Germany; pencil.

Millet, Jean François. Study for "Les Glaneuses"; black chalk. "L'Enfant Malade"; black chalk. Both from the Staats Forbes collection.

Prints arranged to illustrate the Works of Masters.

Loir, Luigi. "Le Val de Grâce"; by G. Rodriguez; etching. *Presented by the Prefect of the Seine.*

Rixens, Jean André. "Le Feu"; by G. Fraipont; etching. *Presented by the Prefect of the Seine.*

SCANDINAVIAN SCHOOL.

Etching.

Thaulow, Fritz. "Les Cygnes"; printed in colours.

FOREIGN ARTISTS WORKING IN ENGLAND.

Lehmann, Henri and Rudolf. One hundred and two portraits, chiefly executed in pencil, of eminent persons of the nineteenth century, viz.—H.R.H. Albert Edward, Prince of Wales, H.R.H. George, Duke of Cambridge, Sir R. Ball, Sir J. Bowring, Sir D. Brewster, Elizabeth B. Browning, R. Browning, R. Chambers, Sarah J. Clarke (Grace Greenwood), Wilkie Collins, Charlotte Cushman, E. Deutsch, C. Dickens, J. Gibson, R.A., W. S. Gilbert, W. E. Gladstone, Sir M. G. Duff, Bret Harte, O. Wendell Holmes, H. von Herkomer, R.A., Lord Herschell, Lord Houghton, T. H. Huxley, Henry James, Lord Leighton, Robert Lowe, G. H. Lewes, J. R. Lowell, Lord Lytton, Cardinal Manning, Sir Theodore Martin, Sir J. E. Millais, L. Motley, F. Max Müller, Sir R. Owen, B. W. Procter, C. Reade, Sir C. Russell, J. Burdon-Sanderson, H. M. Stanley, W. W. Story, Lord Stratford de Redcliffe, Tom Taylor, Lord Tennyson, Sir H. Thompson, Mrs. Humphry Ward, G. F. Watts, R.A., Pope Pius IX., Frederick William, Crown Prince of Prussia, E. About, J. J. Ampère, Cardinal Antonelli, B. Auerbach, G. Bains, C. E. Beulé, W. Bouguereau, F. Bremer, F. Chopin, P. von Cornelius, E. Du Bois-Reymond, J. F. Eckermann, H. W. Ernst, H. Flandrin, J. Froebel, Robert Fleury, J. L. Gérôme, G. Gervinas, C. Gounod, F. Gregorovius, K. Gützkow, F. Heilbuth, E. Hildebrandt, F. Hiller, A. von Humboldt, J. Joachim, L. Knaus, A. de Lamartine, R. Lepsius, C. F. Lessing, F. Liszt, W. Lübke, J. Massaret, A. Menzel, G. Meyerbeer, J. Moscheles, T. Mommsen, F. Overbeck, L. Pasteur, L. von Ranke, A. von Reumont, A. Riedel, E. Rietschel, A. Ristori, C. Schnaase, Clara Schumann, M. von Schwind, G. Verdi, W. Verestschagin, R. Virchow, G. Waagen, J. Sandeau, and H. and R. Lehmann.

Lely, Sir Peter. Portrait of a lady; crayons.

Etchings.

Arendsen, P. J. Portrait of Georgiana, Duchess of Devonshire; from picture by Gainsborough at Althorp; artist's proof. *Presented by the Artist.*

Lithographs.

Herkomer, Hubert von, R.A. "Echoes from the German Alps"; set of twelve; 1877. *Presented by C. Rowley, esq.*

Engraving.

Bovi, Mariano. Lady Hamilton dancing the Tarantella; after W. Locke.

ENGLISH SCHOOL.

Drawings.

Beardsley, Aubrey. Satirical portrait of himself; pen and ink. *Presented by R. Ross, esq.*

Bone, Muirhead. The great Gantry at Charing Cross Station; pencil. *Presented by the National Art Collections Fund.* The Avenue Theatre, as injured by the fall of part of Charing Cross Station, 5th December 1905; pencil. *Presented by the Artist.*

Craig, William Marshall. Portrait of Princess Charlotte; watercolours.

Cruikshank, Isaac. The sailor's description of a sea-fight; watercolours.

Dadd, Richard. Sketch of a curiosity shop; dated "Bethlehem Hospital, June 22, 1854"; watercolours.

Dance-Holland, Sir Nathaniel, R.A. Portrait of a gentleman; pencil. *Presented by E. E. Leggatt, esq.*

Forster, Thomas. Portrait of a gentleman; pencil on vellum; signed and dated 1705.

Gainsborough, Thomas, R.A. Boy, girl, and dog at a stile; black chalk. *Presented by H. J. Pfungst, esq., F.S.A., through the National Art Collections Fund.*

Gillray, James. Three sketches for caricatures on Napoleon; pen and watercolours.

Humphry, Ozias, R.A. Portrait of Edward Edwards A.R.A.; charcoal heightened with white. *Presented by E. E. Leggatt, esq.*

John, Augustus Edwin. Two studies of a male model; charcoal. Study of a baby's head; black chalk. "Tarrying late"; a composition; charcoal. *Presented by the Artist.*

Landseer, Sir Edwin, R.A. Monks carousing; pencil. Sketch for "Death of the Wild Bull"; pencil. Two landscape sketches; pencil. *Presented by E. E. Leggatt, esq.*

Landseer, Jessica. Portrait of Thomas Landseer, A.R.A.; crayons. *Presented by E. E. Leggatt, esq.*

Lawrence, Sir Thomas, P.R.A. Portrait of a lady; red and black chalk. *Presented by E. E. Leggatt, esq.*

Locke, William. Two studies of Lady Hamilton dancing the Tarantella, combined in a group; pen and watercolours.

Mason, George, A.R.A. Girl holding vessel on her head; sketch in oils on paper. A calf; sketch in oils on paper. Studies of a girl dancing; Indian ink. Studies for group of shepherd and dog; black chalk. Sheet of studies of calves and sketches of picture compositions; pencil.

Moore, Albert. Woman reclining; a drapery study; white and black chalk on brown paper.

Rich, Alfred W. Ditchling Mill, Sussex; watercolours. Southwick Harbour, Sussex; watercolours. *Presented by the Artist.*

Romney, George. Sketch of Miss Vernon with a dog, for the picture "The Sempstress"; pen and Indian ink.

Rowlandson, Thomas. Fifteen sketches for political caricatures, 1784; pencil.

Scott, David, R.S.A. Knowledge questioning Death; pencil.

Smith, W. A. Portrait of a lady, 1790; pencil and watercolours.

Spiers, Richard Phené. The portico of Prince Napoleon's Pompeian house in Paris, 1860; watercolours. *Presented by the Artist.*

Stevens, Alfred. Back view of a nude figure; red chalk. Studies of head and arm of a woman; red chalk. Studies of the nude female model; red chalk.

Watts, George Frederick, R.A. Thirty-five studies and cartoons for his pictures. *Presented by Mrs. Watts.*

White, Robert. Portrait of a gentleman; miniature in pencil on vellum.

Worldidge, Thomas. Portrait of Dutton the watchmaker; pencil on vellum; signed and dated 1736.

Etchings.

Allan, David. "Presbyterian Penance"; aquatint.

Bretherton, James. Four plates after H. W. Bunbury.

Strang, William. Portrait of Reginald Cripps. *Presented by R. Cripps, esq.*

Lithographs.

Crane, Walter. Portrait of himself, 1905. "The World for the Workers," 1904. *Presented by the Artist.*

Rothenstein, William. Portrait of Mrs. Alice Meynell. *Presented by Campbell Dodgson, esq.* Manchester Portraits; set of twelve lithographic drawings. *Presented by C. Rowley, esq.*

Engravings.

Blake, William. Trial proofs of leaves 53 and 5 of the prophetic book "Jerusalem, the Emanation of the Giant Albion," 1804; on back and front of one sheet, hand coloured by the artist.

Cockson, Thomas. Portrait of Thomas Blount, Lord Mountjoy. From the Truman collection.

Prints arranged to illustrate the Works of Masters.

Bunbury, Henry William. Thirty-five plates of domestic and humorous subjects, illustrations to Shakespeare, &c. engraved by C. Knight, Tomkins, Bretherton, and others.

Cosway, Richard, R.A. Hebe; by A. Zaffonato, stipple; printed in colours.

Crane, Walter. Certificate for swimming, Battersea; from a line block. Certificate of the Manchester Unity Friendly Society; photogravure. Dancer; photolithograph. The Bridge of Life; from a cartoon; photolithograph. Peace, 1902; photolithograph. *Presented by the Artist.*

AMERICAN SCHOOL.

Etchings.

Blum, Robert Frederick. Collection of seventeen plates. *Presented by the Cincinnati Museum Association.*

JAPANESE SCHOOL.

The Arthur Morrison Collection of Japanese Woodcuts printed in colours, including examples by the following artists:—Ashikuni, 3; Ashiyuki, 1; Bairei, 3; Banki, 2; Ippitsusai Buncho, 4; Bunro, 2; Chikanobu, 36; Choki, 10; Danjuro, 1; Gakutei, 9; Gekko, 125; Hanzan, 1; Harumasa, 1; Harunobu, 32; Harushige, 1; Hidemaro, 1; Hirokage, 1; Hirotsada, 3; Hiroshige, 400; Hokkei, 6; Hokuba, 1; Hokui, 1; Hokusai, 123; Hokushiu, 4; Hokuyei, 5; Ikku, 1; Kabukido, 1; Kikumaro, 5; Kiosai, 6; Kiyochika, 12; Kiyohiro, 3; Kiyomasu, 7; Kiyomine, 4; Kiyomitsu, 4; Kiyonaga, 17; Kiyonobu, 6; Kiyotada, 1; Kiyotsune, 1; Kogyo, 8; Koriusai, 18; Koson, 8; Kuni-chika, 3; Kunihiro, 3; Kunimaru, 1; Kunimasa, 3; Kuninaga, 1; Kuninao, 1; Kunisada, 57; Kuniyasu, 4; Kuniyoshi, 200; Kwanzan, 1; Kwazan, 2; Kitao Masanobu, 3; Okumura Masanobu, 4; Riūsai Masanobu, 1; Masayoshi, 5; Masunobu, 2; Matahei (after) 1, (drawings by) 2; Matora, 1; Moronobu, 2, (after) 1; Nagahide, 8; Nobukadzu, 1; Rinsai, 5; Riokoku, 3; Riosetsu, 2; Sadahide, 4; Sadahiro, 1; Sadakage, 1; Sadanobu, 3; Seido, 1; Sekijo, 1; Setsuro, 1; Sharaku, 2; Shibakokan, 1; Shigeharu, 1; Shigemasa, 2; Shigenaga, 6; Shigenobu, 6; Shikimaro, 1; Shiko, 2; Shinsai, 3; Shucho, 1; Shuncho, 6; Shundo, 1; Shunjo, 2; Shunkio, 1; Shunko, 6; Shunman, 5; Shunsen, 6; Shunsho, 32; Shunsui, 1; Shuntei, 4; Miyagawa Shuntei, 19; Shunto, 1; Shunyei, 20; Shunzan, 5; Shusei, 1; Soraku, 1; Sori, 2; Sugakudo, 1; Sukenobu, 7; Taito, 1; Tofu, 1; Torin, 1; Tosen, 1; Toshiaki, 1; Toshihide, 25; Toshikata, 51; Toshinobu, 2; Toyoharu, 4; Toyohide, 1; Toyohiro, 17;

Toyokuni I., 53; Toyokuni II. (Toyoshige), 5; Toyokuni III., 1; Toyomaru, 1; Toyonobu, 4; Tsukimaro, 1; Utamaro I., 50; Utamaro II., 2; Yeiri, 1; Yeisen, 38; Yeishi, 20; Yeisho, 5; Yeishosai, 1; Yeisui, 1; Yeizan, 12; Yoshiku, 1; Yoshikadzu, 5; Yoshitora, 2; Yoshitoshi, 136; Zeshin, 11; miscellaneous, 43; in all comprising 1,851 prints on 2,101 sheets. This collection was formed by Mr. Morrison during a period of many years with the help of the best Japanese experts, all but first-rate examples in fine early states being excluded; so that, though there exist much larger collections, there are very few of more uniformly high and select quality, or better fitted to form the nucleus of a standard series for the historical and technical study of this very important branch of Japanese popular art.

PORTRAITS.

Foreign.

Bourignon, Antoinette; by P. van Gunst; on vellum.

Mozart, Johann Wolfgang; when a boy; etching by C. Schütz.

English.

Burgess, Daniel; by J. Drapentier. *Presented by A. Bowditch, esq.*

Goldsmith, Oliver; after Bunbury, by E. J. Bretherton; etching.

Nelson, Horatio, Viscount; after L. Abbott, by W. Barnard; mezzotint.

HISTORY.

The coronation banquet of George IV.; anonymous aquatint; printed in colours.

CARICATURES.

Thirty seven political and social satires, 18th century. *Presented by Alfred Bowditch, esq.*

PLAYING CARDS.

A French Geographical pack, the suits representing the four quarters of the globe; designed by N. Poilly, Paris 1763; wanting the 7 of Africa.

BOOKPLATES.

Six plates executed by Capt. Nevile R. Wilkinson for Mary, Duchess of Roxburghe, Viscountess Brackley, the

Earl of Durham, Robert S. Gardiner, and Marion Wilson.
Presented by the Artist.

Plate of Thomas de Grey, brother of William, first Lord Walsingham, who changed the torteaux-in-chief to annulets gules. *Presented by Lord Walsingham.*

Plate of Mrs. Alec Tweedie; designed by Walter Crane and engraved by A. and E. Leverett. *Presented by Mrs. Alec Tweedie.*

Plate of Rev. S. E. V. Filleul; by T. Moring, 1902.
Presented by Rev. S. E. V. Filleul.

Plate of Susannah Oxenham; two impressions. *Presented by Mrs. Oxenham.*

BOOKS OF PRINTS AND BOOKS OF REFERENCE.

Bouchot, Henri. "L'Exposition des Primitifs Français"; liv. 1-4, with 100 plates.

Burgkmair, H., and A. Vogtherr. A set of eighty-seven etchings of the arms of Augsburg families, with frontispiece, (Pass. iii, 285, 3). *Presented by an anonymous donor through the National Art Collections Fund.*

Eisenmann, Oscar. "Die Königliche Gemälde-Galerie zu Cassel."

Gower, Lord Ronald. "George Romney," 1904.

Hamel, Maurice. "Les Salons de 1905."

Henderson, Thomas F. "James I. and VI.," 1904.

Holmes, Sir Richard R. Drawings by Holbein at Windsor; reproduced by Hanfstaengl; 2nd series.

Huttichius. "Imperatorum et Cæsarum Vitæ"; W. Köppel, Strasburg, 1534, 4to; with title border and numerous ornaments throughout by Hans Weiditz. *Presented by Campbell Dodgson, esq.*

Jacobsen, E., and P. N. Ferri. "Neuentdeckte Michelangelo-Zeichnungen in den Uffizien zu Florenz"; with 24 plates; 1905.

Jessopp, A., J. A. Gotch, J. L. Caw, and A. Fox-Davies. "William Cecil, Lord Burghley," 1904.

Lens, Bernard. "Bowles's New Preceptor in Drawing," with frontispiece and 61 plates.

Maclair, Camille. "Jean Baptiste Greuze," 1905.

Menpes, Mortimer. "Whistler as I knew him," 1904.

Pruthenius, Ludovicus. "Trilogium animæ," Nuremberg, 1498. *Presented by the National Art Collections Fund.*

Robaut, Alfred. "L'Œuvre de Corot," tom. 3 and 4, 1905.

Servaes, Franz. "Giovanni Segantini, sein Leben und sein Werk," 1902.

Simonson, George A. "Francesco Guardi," 1904.

Steinmann. "Die Sixtinische Kapelle," Band II. ; with portfolio of 70 plates.

Steinmeyer, Vincent. "Neue Künstliche Wohlgerissene und in Holtz geschnittene Figuren"; Frankfurt-am-Main, 1620 ; woodcuts chiefly by Hans Weiditz. *Presented by the National Art Collections Fund.*

Vachon, Marius. "William Bouguereau," 1900.

Vegetius. "Vier bücher der Rytterschafft," Erfurt, 1511, fol. ; with anonymous woodcuts. *Presented by Max Rosenheim, esq., F.S.A.*

"Das Concilium zu Constanz," Augsburg, 1536 ; with woodcuts by J. Breu. *Presented by Max Rosenheim, esq., F.S.A.*

"Costume of Yorkshire," 1814 ; forty aquatints by R. Havell after G. Walker ; in two states ; coloured.

"Biblia Sacra" ; with 100 plates after modern artists.

"Handzeichnungen alter Meister zu Berlin" ; Lief. XIII-XVI.

"French Art from Watteau to Prud'hon," vol. I.

"L'Œuvre de James McNeill Whistler," liv. 1 ; with 20 plates.

Sidney Colvin.

DEPARTMENT OF EGYPTIAN AND ASSYRIAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, &c.*

EGYPTIAN ANTIQUITIES:—

The general re-arrangement of the Egyptian Collections has been continued and the greater number of the important objects acquired during the year have been incorporated and exhibited.

The re-arrangement of the Egyptian Galleries has been continued. The stelæ have been grouped in chronological order, and the labelling and re-labelling have been continued. A considerable number of statues, sarcophagus covers, etc. have been repaired. Stone shelves have been built into several of the bays in both Galleries, and the wall space which is now available for exhibition purposes is nearly doubled.

Thirty-three temporary Caen stone plinths have been worked and placed in position; eighteen granite shelves and plinths have been shortened and re-used; seventy-eight alabaster plinths have been worked and polished, and bronze figures of gods and sacred animals have been mounted upon them; ten oak stelæ frames, seventeen pedestals in stone and wood, and four plinths have been made, and figures and other objects have been mounted upon them.

One thousand three hundred and forty-eight scarabs have been mounted on cloth-covered plinths, and to one thousand and forty-six of them pin-numbers have been attached. Two hundred and sixty objects have been boxed.

Three large statues of Usertsen III. have been repaired, and their fragments re-joined and plugged; the cover of a sarcophagus has been repaired; one hundred and fifty-eight *ushabtiu* and other figures have been repaired and cleaned; the fragments of three stelæ have been re-joined.

Large tablet numbers have been painted and fixed in the bays of the Egyptian Galleries, and sixty large labels have been made.

Four hundred and twenty-four descriptive labels have been written and painted, and attached to the objects; and two thousand four hundred and twenty numbers have been painted on antiquities, &c.

The transcribing of hieratic papyri has been continued. One thousand one hundred and seventy-three objects have been registered. One hundred and nine descriptive slips for the Guide to the Egyptian Gallery have been written. Catalogue slips for one hundred and forty-four Ptah-Seker-Asar figures and twelve wooden stelæ have been written.

Two thousand two hundred and nine slips for a Catalogue of Scarabs have been written, one hundred and seventy-eight have been re-written, and one thousand and twenty-five have been revised for printing.

Six thousand and seventy-eight index slips and an index-slip list of the Egyptian gods have been written. Two hundred and fifty objects, the numbers of which were obliterated, have been identified.

ASSYRIAN ANTIQUITIES :—

The general re-arrangement of the unexhibited section of the Babylonian and Assyrian collections has been continued. Three hundred and ninety-one tablets have been boxed, and number labels added.

Fifty-three descriptive labels have been written and painted on plinths; thirty-four case-tablets have been opened, and the fragments of the cases re-joined; three hundred and ninety tablets have been cleaned and repaired; two hundred and forty-five number tablets have been written and fixed; casts of sixty-four seal-cylinders have been made, etc.

Two thousand one hundred and forty-one tablets have been registered. Sixty-three tablets have been copied for publication.

The preparation of a complete edition of the great trilingual inscription of Darius at Behistún is in progress, and sixteen sheets have been printed off.

Indexes to Parts III., IV. and V. of "Cuneiform Texts" have been made; seven hundred and twenty-two "K" numbers have been entered in the registers; and the entries in the case-books have been kept up to date.

Publications.—Parts XXII. and XXIII. of "Cuneiform Texts from Babylonian Tablets, &c. in the British Museum," have been compiled and issued.

Students.—About 2,668 visits have been made to the Department by students and others; and 4,121 objects have been issued for their use.

Personally Conducted Parties.—Fifty-eight parties, comprising about eleven hundred and three persons have been personally conducted through the Department by members of the staff. The parties came from institutions, educational and social clubs, schools, &c., at Bayswater, Clapton, Dulwich, Hornsey, Islington, Holloway, Highbury, New Cross, Ratcliffe, Walthamstow, Westbourne Park, Westminster, Winchmore Hill, and other parts of London.

II.—*Acquisitions.*

EGYPTIAN:—

- i. A collection of 854 scarabs, inscribed with the names and titles of 39 of the greatest kings of Egypt; they cover the period which begins with the reign of Cheops, and ends with that of Nectanebus II. (about B.C. 354). In this collection about 28 scarabs belong to the Hyksos Period, 61 to the XVIIIth dynasty, 42 to the XXth dynasty, and several to the Old Kingdom. Among those which belong to the XIIIth dynasty, or thereabouts, occur the rare names of Mer-kheper-Rā, Maa-ab-Rā, Sekha-en-Rā, Neka-Rā, Aā-neter-Rā, &c. Among kings of the XIXth dynasty, Seti-Mene-phthah is unusually well represented. Of the group of scarabs of private persons may be mentioned those of the high Hyksos official, Heru, and Amen-hetep, son of Hapu, and the high-priest of Heliopolis. The collection is of great interest archaeologically, and contains a large number of fine examples of the Delta class of scarabs.
- ii.—1. Large limestone stele, in the form of a door sculptured on both sides. On the one side the deceased Rā-men-kheper is seen adoring Rā-Harmachis, and on the other he adores Osiris. Below are smaller reliefs in which the son of the deceased is represented performing ceremonies on behalf of his father. XIXth dynasty, B.C. 1350.
2. Kneeling stone statue of the priest Patā-Ast, holding a shrine containing a figure. XVIIIth or XIXth dynasty, B.C. 1450-1350.
3. Large flat bronze vessel with a lip inscribed with the prenomen of Tut-ānkh-Amen, king of Egypt. About B.C. 1450.
4. Two blue-glazed porcelain libation jars inscribed with the name of Amen-hetep II. About B.C. 1500.
5. Bronze ring inscribed with a figure of Ptah. XVIIIth dynasty.
6. Bronze ring inscribed with the name of Amen-Rā. XVIIIth dynasty.
7. Crystal scarab. XIIth dynasty.
8. Hard green stone scarab.
9. Three green-glazed scarabs on one base. XIIth dynasty.
10. Mottled stone scarab in ring. XIXth dynasty.
11. Bronze figure of Sebek, wearing disk. Rare example.

12. Bronze triad of lioness goddesses, Sekhet, Menhi, and Tefnut. Rare example.
13. Group in bronze; bitch with young. Rare example.
14. Gnostic amulet in jasper.
15. Large bier cloth, ornamented with human and other figures worked on a coloured ground with rosettes, &c. About A.D. 500.
16. Coptic inscription.
Wooden writing case, with decorated reed pens.
Artists' palette in ornamented leather, with a support for the wrist, water-vessel, and cavities for the reed brushes. These objects were found at Akhmim, and belong, probably, to the VIIIth century A.D.

- iii.—1. Limestone stele, sculptured with figures of the deceased praying to the Day-Sun and the Night-Sun, and inscribed with the text of a hymn in 16 lines, which contain unusual spelling of hieroglyphic words. About B.C. 400.
2. Granite sepulchral stele, with a bilingual inscription in hieroglyphics and demotic; above is a figure of the deceased worshipping six gods. Ptolemaic Period.
 3. Large sandstone stele inscribed with 11 lines of text recording the dedication of certain offerings to the Cow-goddess Hathor at Karnak, by the Emperor Tiberius. On the upper part of the stele is a figure of the Emperor standing before the goddess.
 4. Granite base of a statue inscribed with the cartouches of Queen Shep-en-Apt, Amenartās, and Piānkhi. About B.C. 700.
 5. Large red and white mottled stone bowl of the Archaic Period. About B.C. 4000.
 6. Arragonite bowl. Archaic Period. About B.C. 4000.
 7. Two models of a hippopotamus in flint. Archaic Period.
 8. Porcelain handle of a sistrum dedicated to Thoth by a king. XXVIth dynasty.
 9. Granite figure of a Cynocephalus ape. About B.C. 800.
 10. Lapis-lazuli scarab of the singing-woman Hent. About B.C. 1200.
 11. A group of 32 scarabs inscribed with the names of high officials who flourished during the first six dynasties; many are of considerable archaeological importance. From Sakkarah.

12. Scarab of the lion hunts of Amen-hetep III. About B.C. 1450.
 13. Scarab of Amen-hetep III. and Queen Thi.
 14. A fine linen model shirt, with a figure of the Cow-goddess Hathor worked in it. B.C. 1500.
 15. Three glazed and painted vases. Roman Period.
 16. Bowl in fine bronze, with grotesque heads as handles. Roman Period (?).
 17. Circular object in mother-of-emerald, inscribed with the name of a Roman Emperor in hieroglyphics.
 18. An altar, with an inscription in demotic on the edge.
 19. Three inscribed Gnostic gems.
 20. A collection of glass beads of the Roman Period.
 21. Limestone base of a pillar, which has been hollowed out and made to serve as the apse of a small shrine in a Coptic church. The decoration consists of birds, plants, &c. in low relief. VIIth to IXth century A.D.
 22. Two Coptic stelæ. IXth century A.D.
- iv.—1. A hard dark granite statue of Sen-Mut, the famous architect and builder of the temple Tcheser Tcheseru, *i.e.*, the "Holiest of the Holy," of Queen Hâtshepset, who reigned over Egypt about B.C. 1550. Sen-Mut was the "Chief of Works" in all Egypt, the "Chief Craftsman of every trade," and he was the Overseer of the House wherein the tribute in gold paid by the Sūdân was stored. The Queen adopted male attributes and attire, and she appears in this statue as the "Young Horus," whom the architect holds on his knees.
2. A glazed porcelain draught-board, one end of which is ornamented with two ducks' heads, with their beaks in opposite directions. One row of squares is ornamented with the hawk of Horus, two symbols for "god," three symbols for "god," the sign for "water," and three *nefers*, *i.e.*, triple "good luck," or "game." The other squares on this side are blank. On the other side each square contains a circle, with the centre clearly marked by a dot. One end of the board is broken. The object was found at Babylon. (No. 102,396.)
 3. Glazed stone scarab set as a bezel in a gold ring. XVIIIth dynasty, B.C. 1600.
 4. Lion-headed earring in gold. Ptolemaic Period.

ASSYRIAN :—

1. Large inscribed baked clay cone of Samsu-iluna, King of Babylon, about B.C. 2145. The inscription, which is in seven columns, commemorates the rebuilding of the great wall which surrounded the city of Sippar in Babylonia. The king states that he undertook the work at the direct command of Shamash the Sun-God, the patron deity of Sippar, and of Marduk the god of the city of Babylon, his capital; and he declares that, by their help, he brought the work to a successful issue. The inscription also contains a long list of the king's titles, and it describes his achievements, and the special favour which was shown to him by the Sun-God and his wife Aa, the centre of whose worship was in E-Babbara, the great temple of the Sun in Sippar.

This cone is a foundation memorial, and was found buried in a wall. It is the largest example of the class now known, and is a very valuable addition to the memorial inscriptions of the First Dynasty of Babylon, which are exceedingly rare.

2. Two tablets of accounts, inscribed with lists of labourers and their children, &c., drawn up in the reign of Uru-kagina, an early king of Shirpurla. About B.C. 4500.
3. A collection of 169 tablets of accounts, business receipts, and memoranda inscribed in Sumerian. They belong to the period of the kings of Ur, about B.C. 2400. Among them is a large tablet of accounts inscribed with lists of labourers and slaves employed upon some of the great temple estates in the neighbourhood of the city of Shirpurla. The tablet is dated in "the year in which the city of Kimash was destroyed."
4. A collection of forty-eight tablets belonging to the period of the First Dynasty of Babylon, about B.C. 2200-2000. The greater number are inscribed with legal and commercial agreements, memoranda, &c. One tablet is dated in the reign of Abeshu, king of Babylon, about B.C. 2110. Ten tablets are docketts, which were attached by pieces of straw to legal agreements, which were drawn up in "the year the canal of Samsu-iluna was cut," *i.e.*, in the third or fourth year of the reign of Samsu-iluna, king of Babylon, about B.C. 2145.
5. A collection of ninety-eight tablets inscribed during the Neo-Babylonian and Persian Periods, from B.C. 550-485. The texts consist of receipts, business agreements, legal contracts, accounts, lists, memoranda, &c. The greater number of the tablets

belong to the reign of Darius, B.C. 521-485; some are dated in the reigns of Nabonidus, B.C. 555-538, and Cambyses, B.C. 529-521. One tablet in this collection is inscribed with a letter from the Judges, probably of Sippar, to a certain man called Nidinti, with reference to a complaint made by Shubā about one of their legal decisions.

6. White limestone cylinder seal of Shamshi-Adad, the son of Shalmaneser II., and grandson of Ashur-nasir-pal, King of Assyria from B.C. 825-812.
7. Persian lapis-lazuli seal of Adad-Nirari, the son of Shamshi-Adad, King of Assyria, from B.C. 812-783.
8. Limestone slab, sculptured with the figures of two bowmen; it was one of the series which lined a corridor in a palace of one of the later kings of Assyria. About B.C. 650.
9. Limestone slab sculptured with the figure of the eagle-headed deity, who performed a very important ceremony in connexion with the fertilizing of the palm tree in Babylonia. It was brought from a side gallery in the palace of Ashur-nasir-pal (B.C. 885-860) at Nimrūd.
10. Limestone slab sculptured with the head of King Ashur-nasir-pal; it was cut from one of the large slabs which lined the hall of this king's palace at Nimrūd.
11. Lapis-lazuli cone, on which are cut figures of the crescent moon, a man-headed bull, and a scorpion-man. About B.C. 650. The figure of the scorpion-man is of interest, as it rarely occurs. According to the Ninth Tablet of the Gilgamesh Series, the "Gate of the Mountains of Māshu," *i.e.*, the Sunset, was guarded by two scorpion-men, at the sight of whom men died.
12. A carefully cut lapis-lazuli seal, whereon are figures of gods, and of a man and animals in conflict. An unusually good specimen in lapis-lazuli.
13. An archaic soft limestone cylinder seal, with figures of gods, animals, &c. in relief. About B.C. 3750.
14. A group of seventeen cylinder seals in white stone, or shell limestone, whereon are cut figures of animals, gods, &c. of an unusual character. Some of these are valuable for purposes of comparison with the cylinder seals of the Archaic Period from Egypt. B.C. 3800-3500.
15. Carnelian bugle bead inscribed with the name of Dungi, King of Babylonia. B.C. 2400.

16. A group of eleven hæmatite cylinder seals, of the period B.C. 2200-1500. Six are inscribed with names, thus :—
- Amil-Martu, son of Ilu-Shemi.
 - Ibni-Marduk, son of Taribatum.
 - Ablatum, son of Adad-Shemi.
 - Adad, son of Anna.
 - Makhaditum.
 - Shamas and Ai.
17. Agate cylinder seal. About B.C. 800.
 Amethyst cylinder seal. About B.C. 650.
 Lapis-lazuli cylinder seal. About B.C. 500.
 Chalcedony cone, &c. About B.C. 500.
18. Glazed steatite scarab, of Elamite design and work.
 Period doubtful.

HIMYARITIC :—

Portion of a long inscription recording the dedication of a building to the god Al-Mokah ; it appears to belong to the period about B.C. 700, and was found among some ruins in the north of Hadramaut.

III.—*Presents.*

- i.—1. Yellow marble figure of an official or priest. Period uncertain. From Hadramaut.
2. Portions of four Himyaritic inscriptions, cut in relief upon marble. The texts refer to the dedication of certain buildings to the god Al-Mokah. About B.C. 700.
Presented by H.R.H. The Duchess of Connaught.
- ii. A group of fragments of reliefs, &c., from the Temple of Neb-hapt-Rā, a king of the XIth dynasty, from Dēr al-Bahari :—
1. Fragment of the *Ka* name of Menthu-hetep.
 2. Fragment of the cartouche of Menthu-hetep.
 3. Fragment (Neb-hapt-Rā).
 4. Fragment of a relief : a king seated, and holding a staff.
 5. Fragment of a relief : a prince with his tutors.
 6. Fragment. The warrior Kheti holding a bow.
 7. Fragment. Warrior with square-headed arrows.
 8. Fragment. Warrior holding a round-bladed axe.
 9. Fragment. Inscription of the Judge Dak.

10. Fragment. Slain Aamu from Sinaitic Peninsula.
11. Fragment. War against the Aamu.
12. Fragment. Scribe with palette.
13. Fragment. Vulture.
14. Fragment. Goddess Hathor.
15. Fragment. Two men driving cattle.
16. Fragment. Man gathering weeds.
17. Fragment. Head of a calf, in relief.
18. Fragment. Procession of boats.
19. Fragment. A shrine in a boat: the King dancing at the Set Festival.
20. Fragment. Ibis catching fish.
21. Fragment. Hippopotamus in the marshes.
22. Fragment. Procession; courtiers bowing.
23. Fragment. Part of a procession.
- 24-27. Fragments of the painted stone coffin of a priestess.
28. Osiride head of King Menthu-hetep.
29. Figure of a woman.
30. Inscription containing the name Amen.
31. Fragment. Amen embracing a king.
32. Fragment of an inscription.
- 33, 34. Cartouches of Menthu-hetep.
- 35, 36. Two jar-sealings.

iii. Objects of the XIIth and later dynasties:—

1. Fragment of a cartouche of a king called Usertsen.
2. Relief with the figure of Prince Sa-Hathor. XVIIIth dynasty.
3. Fragment of a relief with the name of the Temple of King Thothmes I.
4. Fragment of an inscription from the Great Temple. XVIIIth dynasty.
5. Fragment of a relief; sepulchral offerings.
6. Relief with a figure of the god Set. XIXth dynasty.
7. Cartouche of King Rameses IX. XXth dynasty.
8. White limestone portrait head.
9. Stone bowl, made from an ancient relief.
10. Bowl fragment, with finely cut inscription.

11. Cover of an alabastron inscribed with the cartouche of Queen Hâtshesut.
 12. Votive cloths painted with figures of the goddess Hathor.
 13. Stone head of Hathor, with hawks.
 14. A group of blue-glazed porcelain Hathor heads.
 15. Blue-glazed porcelain : figure of a lion.
 16. Blue-glazed porcelain : fragments of vases.
 17. A group of amulets.
 18. Fragment of a glass vase.
 19. Yellow-glazed ball,
 20. Pottery rings.
 21. Wooden ānkh amulet.
 22. Wooden reel, with string.
 23. Wooden mallet.
 - 24, 25. Wooden spatulas.
 26. Bronze rod.
 27. Earthenware jar, with cords for suspending it.
 28. Vase-ring of basket-work.
 29. Basket.
 30. Piece of matting ; herring-bone pattern.
 31. Cloth bag.
 32. Pieces of cloth with wool embroidery.
 33. Piece of thick, heavy rope.
 33. Papyrus plant, shells, &c.
 34. A group of hieratic graffiti.
 35. A collection of demotic and Coptic ostraka.
 36. Fragment of inscribed mummy cloth ; Roman Period.
- iv. Objects of the Ptolemaic and Roman Periods from Bahnasâ and Al-Hiba :—
1. Porcelain cat.
 2. Lamp, with ten burners.
 3. Blue-glazed tessera, with head of Bes, and an utchat eye in relief.
 4. A group of fragments of coloured glass.
 5. Green glass head.
 6. Ivory pins, dice, &c.
 7. Bronze scoop, iron ladle, and iron keys.
 8. Small lead cross ; Coptic.
 9. Inscribed bone.

10. Greek ostrakon (letter). Vith century A.D.
11. Reed pen.
12. Fragments of a pottery cup, with vine leaves in relief.

Presented by the Egypt Exploration Fund, 1906.

E. A. Wallis Budge.

DEPARTMENT OF GREEK AND ROMAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, &c.*

In the Terracotta Room the new cases on the South side have been completed, and the terracottas have been replaced in them; pending the completion of the corresponding cases on the North side, the remaining terracottas have been temporarily withdrawn. The room hitherto called the Etruscan Saloon has undergone an entire re-arrangement with a view to the provision of space for the exhibition of a series of objects illustrating the Public and Private Life of the Greeks and Romans. Considerable progress has been made with the arrangement of objects for this exhibition. The terracotta mural reliefs have been mounted on wooden doors fixed within the cases, the object of this arrangement being to render fresh storage space available. The two large terracotta sarcophagi from the Etruscan Saloon have been moved into the Terracotta Room, while many of the bronzes have been transferred to the Bronze Room, where the cases have also undergone considerable alteration with a view to a re-arrangement of the bronzes. In the Fourth Vase Room a table case has been specially fitted for the exhibition of Greek and Italian vases with moulded designs. Casts of several fragments have been procured from Athens and fitted to the Parthenon Frieze. A re-arrangement of the sculptures in the Phigaleian Room has been made, and alterations have been carried out in the Frieze in order to distinguish clearly between the originals and the restorations. A series of pictures illustrative of the sculptures has been framed and placed in the Elgin and Phigaleian Rooms. The walls and ceiling of the Ephesus Room have been re-painted, and the sculptures have been moved for the purpose. The Choiseul-Gouffier statue of Apollo has been removed from the Ante-Room (where new wall-cases are being fitted), and placed in the Archaic Room. A new door has been made giving access to the Inscription Room from the Mausoleum Annexe; the inscriptions in the former room have been re-arranged. In the Hall of Inscriptions the plaster cast of a restored capital has been placed on the inscribed pier from Priène.

The objects found in the excavations at Ephesus have been temporarily exhibited in the Medal Room Lobby.

A series of 46 labels giving a more detailed account of the principal sculptures has been printed in the Department, and affixed to the pedestals in metal frames.

Twenty-five new moulds and 4 new marble pedestals have been made for the Department. One marble vase, 4 heads, 1 marble foot, part of a marble chair, 7 votive tablets, and

6 miscellaneous pieces of sculpture have been mounted on marble or stone; 41 bronzes, 27 vases, 81 terracottas, 18 ivories mounted on wooden blocks; 9 drawings and plans framed. Three hundred and sixty sloping blocks have been made for labels.

Fifty-five bronzes, 99 terracottas, 67 vases, 33 ivories, 13 lamps, 80 rings, 27 silver objects, and numerous miscellaneous antiquities have been cleaned and repaired.

Six hundred and forty-eight objects have been registered; 573 labels written; 1,826 objects numbered.

A new edition of the Guide to the Sculptures of the Parthenon has been issued. Progress has been made with the printing of the Catalogue of Roman Pottery and the Catalogue of Rings; with the preparation of revised editions of the Catalogue of Gems and of the Guide to the Department. Progress has also been made with the preparation of the plates of the Parthenon Sculptures and the account of the British Museum Excavations at Ephesus.

The number of visits to the Departmental Library for purposes of research has been 600; 1,188 other visits to the Staff for purposes of inquiry, and 1,758 attendances of students in the Sculpture Galleries have been entered.

Numerous parties of students have visited the Department for lectures and demonstrations.

II.—*Acquisitions.*

By Purchase.

I.—*Objects in Gold.*

1. Earring of S-form set with a black jasper engraved on either side. Obverse: head of Mercury; reverse: scorpion. Late Roman.
2. Earring as last. The black jasper is engraved on one side only with a helmeted head of Minerva.
1, 2 were found at Episkopi, Cyprus.
3. Pair of earrings in the form of disks with pendent amphoræ. They are set with emeralds and garnets, and are attached to one another by a fine plaited chain. See Froehner; *Coll. Tyszkiewicz*, 183, pl. xxiii. (Paris, 1898) = pl. xi., 9 (Munich, 1892-1898).
4. Pair of earrings, each consisting of a rosette of 51 petals, from which is suspended an inverted pyramid surmounted by a dove. From Cyprus.

II.—*Silver.*

1. Silver-gilt disk with design in relief: Helios in quadriga rising above the horizon, below which are two dolphins plunging. From a tomb at Elis. Cf. Pollak, *Goldschmiedearb.*, pl. xx., 533.

2. Oval plate (probably from the bezel of a ring) with engraved design; head of Hadrian, laureate, surrounded by an inscription, *Κάλιππος ἄρχων Ἀδρι(ανού) Καίσαρος*.

3. Hook. The lower part of the shank is bound round with wire, the upper part is broken away. Excavated about 1830 from a tomb at Marathon.

III.—Bronze.

1. Bangle of three coils with a knob at each end.

2. Bracelet formed of two pieces of bronze which overlap at one end and are joined together at the other by a strip of bronze wound round them.

3. Bracelet consisting of a flat piece of metal with overlapping ends.

1-3 were excavated about 1830 from a tomb at Marathon.

4. Statuette of a woman in long Ionic chiton, holding her skirt with her left hand. Sixth cent. B.C. Acquired in Bergen, Norway, and said to have been found near that town with three Italian fibulae. See *Journ. Hell. Stud.*, 1906, p. 284 f.

5. Statuette of nude youth of early "Apollo" type. Found at Kalyvia in Attica, latter part of sixth cent. B.C. Peloponnesian style.

6. Statuette of Eros wearing winged cap of Hermes and carrying a purse.

7. Pair of clappers (*κρόταλα*) with rings and chain for holding. Inscribed in dotted letters: (a) **ΩΑΤΑΣΕΙΜΙ**, *Ωάτας εἰμί*, (b) **ΩΑΤΑΣΕΙΜΙ** and **ΩΑΤΑ**. Cf. *Arch. Zeit.*, 1876, p. 28, pl. 5.

8. Statuette of Autumn standing and holding fruits placed in the folds of an animal's skin attached to his right shoulder and thrown over his left arm. Gallo-Roman style.

9. Mirror with design in relief on the cover, representing an Amazon attacking a helmeted warrior. He has fallen on his right knee, and with his left hand holds up his shield to ward off the blow; his right hand holds a spear (modelled separately).

10. Disk, silvered on the concave side; to this has been attached a relief, representing a bearded mask wearing a Phrygian cap.

11. Disk, as last, with a mask of Seilenos in relief.

12. Disk, as last, with a mask of a young Satyr in relief.

13. Relief representing a bearded man, wearing a Phrygian cap, and a woman, both standing in a quadriga driven to the front.

14. Relief representing an Amazon wearing a winged Phrygian cap and carrying axe and bow in her left hand.

15. Lunate ornament with palmette design in relief.

16. Foot of a cista modelled in the form of a Sphinx seated on a scroll above a lion's foot.

9-16 are from tombs at Elis.

17. Statuette of Herakles standing, with club and lion's skin supported on his left arm.

IV.—Engraved Gems.

1. Sard intaglio: head of Ariadne, wearing ivy wreath, within a cable border. Found on the surface at Politis-Chrysokhou, Cyprus.

2. Sard intaglio: head of youthful Herakles with lion's skin knotted about his shoulders. Behind his head is a star; in front, inscribed "Ερωε.

3. Sard scarab intaglio: bull wounded by a spear which sticks in his back. Cable border.

4. Carnelian scarab intaglio: huntsman skinning an animal. Meaningless letters in the field. Cable border.

5. Onyx intaglio (set in modern gold ring): two men before a tree, from which hangs a ram's head. The one kneels and holds a serpent over a flaming altar, the other stands and holds a small image (?).

6. Chalcedony bust of a woman in high relief. She wears the costume of a priestess of Isis. Possibly a Roman Empress in that character.

V.—Marble, &c.

1. Head of Meleager on modern bust. Ancient replica of a Greek original of the 4th cent. B.C. See *Burlington Fine Arts Club Cat.*, 1904, No. 14, pl. xiv.; *Journ. Hell. Stud.*, 1885, p. 38, No. 27.

2. Pyxis of graceful form. It is on a tall stem, and is decorated round the body with moulded rims. The lid has a tapering handle. Fifth to fourth cent. B.C.

3. Fragment of a Greek inscription recording the rules of a *thiasos* or private association. From the Peiræus. About the third cent. B.C.

4. Stone shrine with gable top. On the front are the remains of a painted scene.

5. Marble sarcophagus, with the representation of a lock carved on its front. On the pyramidal cover is inscribed: **ΕΠΙΠΕΡΕΩΣΠΑΝΦΙΛΟΥΜΗΤΡΟΔΩΡΟΣΑΡΤΕΜΙΔΩΡΟΥΠΕΡΙΡΑΝΤΗΣ**, ἐπὶ ἱερέως Πανφίλου Μητρόδωρος Ἀρτεμιδώρου περιράντης. *Περιράντης* is apparently a new word; cf., however, the *περιρανθήριον* of a Delphi inscription (*Bull. de Corr. Hell.*, XXI., p. 483). Said to have been excavated in the ruins of the temple of Kybelè at Sardis.

VI.—*Terracotta.*

1. Statuette of a woman in long chiton. She wears a diadem, and raises her hands towards her head. On the back is incised **MHNO**, Μηνο[φίλου ἔργον (?)]. Cf. Pottier et Reinach, *Néc. de Myrina*, I., pp. 178, 188.

2. Statuette of a nude girl, seated. Her arms are movable (pins modern), and in her right hand is an ivory dove, the head of which is lost. Her hair is coloured red.

3. Chair in which the above figure is seated. It has a high back, and the arms rest on two modelled heads of girls, whose hair is coloured red.

4. Models of a pair of boots (ἐμβάδες), the tops and soles of which are coloured red.

5. Model of an instrument (ἐπίνητρον or ὄνος) placed on the knee in spinning. It ends in a human head, and is decorated with dashes in black.

6. Model of a vase for lustral water used at wedding ceremonies (λίβης γαμικός). It has double handles and a decoration of palmettes.

2-6 were found together in a girl's tomb, probably near Athens.

7. Statuette of a woman draped with chiton and himation. There are traces of blue on the latter. Tanagra style.

8. Very rudely modelled quadriga (one horse missing). In the chariot are the charioteer with a shield on his back and another warrior. Perhaps a child's toy.

9. Group of Eros and Psychè embracing. Eros leans on a torch, and Psychè is seated. Below is a rectangular base, with a design in relief of Eros riding on a sea-monster.

10. Statuette of Aphroditè, carrying a mirror in her lowered right hand. She wears bracelets, and has drapery over her right leg.

11. Fragment of a disk with Gorgoneion in relief on a star-shaped background.

12. Statuette of Eros draped in a pink mantle. From Aegina.

13. Statuette of a dwarf, wearing mantle and walking to left. From Myrina.

14. Small disk, with bust of Athenè in relief. She wears a triple-crested helmet. At the back are the remains of three bronze loops. There are traces of gilding.

15. Disk, as last, partly broken away.

16. Disk, with bust of Athena in relief, wearing triple-crested helmet. On either shoulder is a small Nikè, fastening an earring.

17. Disk, with Gorgoneion in relief. There are traces of gilding.

18. Disk, as last, partly broken away.

19. Diminutive relief of Nikè flying. She grasps her drapery with her lowered hands.

20-23. Four small reliefs representing a boar hunt. They are as follows: (a) huntsman holding spear, dressed in pointed cap and cloak; (b) huntsman in pointed cap, with shield on left arm; (c) group of two hounds running to right; (d) boar at bay, standing to left.

24. Bust of a draped woman wearing a diadem (?). The latter has two holes for suspension.

25. Statuette of a boy wearing a round cap and a cloak fastened on the shoulder by a circular brooch.

VII.—Pottery.

1. Oenochoè with trefoil lip and plain handle. It has a design painted in white, brown, pink, blue, and gold over the black glaze. In the centre is a draped woman, seated to right on a high-backed chair, with her head turned round. In her left hand she holds a sceptre. Behind her stands Dionysos, nude and wreathed, holding a *thyrsos* in his left hand. On either side are winged Erotes, holding a sash and a jewel-case respectively. Behind the Eros on the right, is a woman, winged and draped, holding two torches. The scene represented is probably the marriage of the *Basilinna* with Dionysos on the second day of the Anthesteria (cf., Dem., c. *Neaer.*, 73; Aristot., 'Αἱ. πολ., 3, 5; and Mommsen, *Feste der Stadt Athen*, p. 392 ff.).

2. Vase in the form of a boy riding sideways on a goat to right; he carries a dish of fruit in his left hand. There are remains of green, pink, and red colouring.

3. Lekythos, with design in outline on a white ground, representing a youth with flutes and a woman with a pyxis standing before a sepulchral stele. Inscribed: **EYNOMΟΣ ΚΑΛΟΣ.**

4. Vase, in the form of Eros kneeling on his left knee. In his right hand he holds an apple.

VIII.—Iron.

1-10. Series of ten arrow-heads.

11. Buckle of Roman type.

12-14. Three implements of uncertain use.

1-14 were excavated about 1830 from a tomb at Marathon.

By Donation.

I. Four vases of *bucchero nero*. From a tomb near Rome.

Presented by Signor Lamberto Longoni.

II Terracotta foot from a statuette, with straps of a sandal crossing the foot at the base of the toes and running up to the instep.

Presented by M. Georges Manólakos.

III. A series of fragments of Neolithic, Kamáres, and Mycénæan ware from excavations at Zakro in Eastern Crete and Knossos in Northern Crete. See *Annual of Brit. School at Athens*, VI., p. 70 ff. and VII., p. 121 ff.; *Journ. Hell. Stud.*, 1903, p. 248 ff.

Presented by D. G. Hogarth, Esq.

IV.—1. Amethyst scarab with rounded lower surface engraved with a statue of Vertumnus.

2. Sard scarab with engraved design of nude figure seated on a horizontal line, below which hang three amphoræ. Cable border. Italic work "a globolo." Cf. Furtwängler, *Ant. Gemm.*, pl. xix. 35-40, pl. xx. 39, 41.

Presented by C. J. Wilson, Esq.

V. A series of thirty-three plaster casts of fragments from the Frieze of the Parthenon, taken from the originals at Athens. These are intended to complete the Museum Series of the Parthenon Frieze.

*Presented by the Greek Government, through
M. P. Cavvadias, Ephor-General of Antiquities.*

VI.—1. Fragment of Arretine bowl, with design of leaves and rosettes.

2. Fragment of rim of flat dish, with design in relief of a *bestiarius* or gladiator charging to left. Salmon-coloured clay. Unglazed.

3. Similar fragment, with relief, showing the head of a lion and part of a *bestiarius* charging. Salmon-coloured clay. Unglazed.

*1-3 were found by Prof. W. M. Flinders Petrie at
Coptos, Egypt, 1894, and presented by
H. M. Kennard, Esq., 1906.*

VII. Gold necklace, a modern copy of the original necklace at Naples, published in *Mus. Borb.*, XVI., pl. xiii. (lower of the two). It consists of a chain of plaited wires, from which hang rows of pendants in the form of acorns, Seilenos-masks, palmettes, and lotus-flowers.

Presented by Mrs. Eustace Smith.

VIII. Head of a man wearing a fillet, made of a composition imitating marble. A modern forgery of an archaic head. Acquired at Corinth.

Presented by E. S. Forster, Esq.

IX. Series of terracotta-gilt ornaments, consisting of three disks with heads of Athenè in relief, amphoræ, &c. They have formed a necklace. Greek work of the fourth cent. B.C.

Presented by Cecil H. Smith, Esq.

X. Bronze handle of a vase decorated with acanthus leaves in relief. Found in the same tomb at Tripolitza as the bronze lamp mentioned in *Brit. Mus. Return*, 1906, p. 69, 17 = *Arch. Anz.*, 1906, p. 247, 17.

Presented by M. Joannes Kondylis.

XI. Marble sepulchral urn decorated with rams' heads, gryphons, birds, and garlands in relief, inscribed: *Dis Manibus. Flavia Tyche vix(it) an(nis) xx. Alexander contubernali carissimæ.* See *C.I.L*, VI., 18451. Formerly in the Capel-Cure Coll.

Presented by C. J. Charles, Esq.

XII.—1. Pointed oval bronze plaque with a relief representing Bes (?) squatting. He wears a modius surmounted by a plume, and holds a snake in either hand. Their heads are confronted above his own.

2. Series of minute gold tubes, probably for use in goldsmith's work.

Presented by M. E. Triantaphyllos.

XIII. Bowl, one-handled, of coarse drab ware with remains of white slip. On the lip is a spiral pattern in brown, and, below, a bordering line in the same. Melian fabric. Probably from Phylakopi. Cf. *Excavations at Phylakopi*, pl. xxxiii., 11.

Presented by A. M. Daniel, Esq.

XIV. Four fragments of Minoan ware and a terracotta loom-weight. From Crete.

Presented by H. R. Hall, Esq.

XV. A series of terracotta heads, plaques, rosettes, and other objects.

Presented by M. Costis Lembessis.

XVI.—1. Two gold earrings in the form of a club.

2. Gold pendant in the form of a clenched right hand.

3. Gold pendant in the form of a bunch of grapes.

4. Electrum pendant in the form of a ram's head.

5. Ivory locket with design of a seated woman holding a child, on a gold background.

6. Ivory cylinder with rings for suspension. Probably intended to hold an amulet.

7. Three lead plaques inscribed with Greek letters.

8. Bronze fibula of hinged type inlaid with light blue, red, and brown enamel. First-second cent. A.D.

9. Glass scarabaeoid intaglio: Herakles carrying club and lion's skin.

10. Two amber pendants.

11. Three beads of rock-crystal, carnelian, and agate respectively.

12. Kantharos with twisted handles. Black glaze with a vine-spray and the inscription ΔΙΟΝΥΣΟΥ painted on it.

1-12 are from Olbia.

Presented by M. Pierre Mavrogordato.

XVII.—1. Series of one hundred and three votive offerings, consisting chiefly of bronze statuettes of a rude type representing men and women. Besides these there are bronze models of parts of the human body and implements, three bronze fibulæ, and one statuette in iron. They belong to the pre-Roman period of art in Spain, and are probably at least as early as the sixth cent. B.C. One of the female figures has a head-dress corresponding to that of the bust from Elche (*Monuments Piot*, IV. (1897), pls. xiii. and xiv.). These objects were found on the site of an ancient sanctuary near Despeñaperros in the Sierra Morena, Spain.

2. Series of twenty-two photographs illustrating the above collections.

Presented by Horace Sandars, Esq.

XVIII.—1. Series of eleven objects, including a mirror of stucco and glass, glass pendant, &c., found at Gheyta and Tell el Yehudiyeh, Egypt.

2. Wooden writing board with iron handle, inscribed with six lines from the Iliad (I. 468 ff.).

Presented by the British School of Archæology in Egypt.

XIX.—1. Three fragments of vases with rude human figures painted in dark brown on a light ground.

2. Fragment of a vase inscribed in ink with a series of Greek letters. Apparently a reading exercise.

3. Blue faïence inkstand.

4. Part of a male figure in blue faïence.

5. Two bronze bracteate figures of Dionysos and a pigmy respectively.

6. Three objects in ivory, viz., a head of a barbarian in relief; a plaque with a group of deities in relief, including Serapis and Isis; and an elephant on a base, inscribed underneath ΑΙΚΥΠΤΗΝ.

7. Four objects in wood, viz., a writing tablet coated with wax, a rude figure of a horse, a seal holder (?), and a weaving instrument (?).

8. Red jasper intaglio: Herakles struggling with the Hydra.

9. Two reed pens.

1-9 are from *Behnesa* (*Oxyrhynchus*).

*Presented by the Committee of the
Egypt Exploration Fund.*

XX. Series of one hundred and five objects, consisting of specimens of "Minoan" pottery, fragments of wall-paintings, models of stone vases, and other antiquities found in the excavations at Knossos, Crete.

Presented by Dr. Arthur Evans, F.R.S.

XXI. Fragment of blue-glazed pottery with band of flowers in green. Found at Mitrahenny (the site of the ancient Memphis), with many fragments dating roughly from the first to the third cent. A.D.

Presented by H. Wallis, Esq.

XXII.—1. Kylix with black-figure designs on a narrow buff band, representing a youth seizing one of five girls dancing before a burning altar in the presence of a seated man and a ploughing and sowing scene.

2. Kylix with a black-figure design on a light band representing Herakles (?) in combat with an Amazon in the presence of eight standing figures and two horsemen. The design is given twice, on each side of the vase.

3. Kylix with a black-figure design of Hermes running on the inside of the bowl.

4. Kylix with a rude palmette design in black, inscribed ΑΓΑΘΑΣ.

5. Red-figure lekythos. The design represents a nude youth bending over a laver.

1-5 are probably from excavations in Rhodes.

Presented by Sir Henry Howorth, K.C.I.E.

XXIII. Terracotta relief (a modern forgery), representing Odysseus and the Sirens.

Presented by Mr. A. Decaristo.

XXIV. A framed drawing showing a suggested restoration of the Treasury of Atreus at Mycenæ. It is based largely on the restoration of the columns as set up in the Archaic Room.

Drawn and presented by R. Phenè Spiers, Esq.

Cecil Smith.

DEPARTMENT OF BRITISH AND MEDIEVAL ANTIQUITIES AND
ETHNOGRAPHY.I.—*Arrangement.*

Prehistoric Section.—A new table-case has been supplied to contain a scale model of Stonehenge, with diagrams and explanatory label. A series of modern flints, pottery, &c. illustrating prehistoric methods has been exhibited in the lower part of Table-case H, and a prehistoric collection from Aberdeenshire in the corresponding part of Case K. Seven cases in Stone Age Gallery have been cleared for cleaning.

Late-Keltic and Gaulish Sections.—The exhibition of the Morel Collection has been completed by the addition of the Merovingian series in Cases 61, 62; and two stumps of stakes from the Thames at Brentford have been mounted above Wall-cases 56–60.

Romano-British Section.—The red Gallo-Roman ware found in Britain has been permanently labelled and exhibited in chronological order; stamped fragments of the same arranged in alphabetical order in drawers; and a series of plain red-ware dredged from Pudding-pan Rock, Herne Bay, has been exhibited in Wall-case 97. The collections from caves in Yorkshire have been remounted, and a diagram of Arretine and Gallo-Roman pottery, as arranged by Dr. Dragendorff, affixed to the screen.

Anglo-Saxon Room.—Part of the Gibbs Bequest has been re-mounted and re-arranged, and temporary labels provided for the series of Scottish and Irish brooches.

Mediæval Room.—The permanent labelling of the Italian plaquettes has been commenced, and the Oct. Morgan collection of watches permanently labelled.

Glass and Ceramic Room.—The maiolica collection has been temporarily labelled and arranged in accordance with the slip catalogue, and the series of Egyptian and Greek glass mounted and furnished with type-written labels.

Asiatic Saloon.—The Chinese porcelain has been cleaned and re-arranged as far as Case 70, and the majority of Chinese and Japanese bronzes labelled.

Gallery of Religions.—Important collections from Tibet have been exhibited in Wall-cases 46–55 of the Buddhist Room and the adjoining table-case. Permanently labelled plinths have been provided for Indian Buddhist carvings.

Ethnographical Gallery.—The floors have been polished throughout and standard and table-cases shifted for the purpose. In the Oceanic section the London Missionary Society's collection has been re-arranged in Cases 141–3; the

Cooke-Daniels collection from New Guinea exhibited in Case 25; the New Zealand collection entirely re-arranged in Cases 132-40, and the series from Samoa and Savage Island re-arranged in Cases 130-1. The feather cloaks from Hawaii, deposited by H.M. the King, have been exhibited in a special standard-case, and collections from the Marquesas, Tahiti, Hervey Islands, and Easter Island re-arranged in Table-case 197.

In the African section the collection from the Uganda Protectorate has been re-arranged and labelled, Kabyle pottery in Case U labelled, and a series of steatite figures from Mendiland exhibited in Table-case 182.

In the American section a special exhibition from the Sloane collection has been arranged in Table-case 191; and collections from Brazil, Peru, Ecuador, and British Guiana re-arranged in Wall-cases 87-93. The South American collection has been re-arranged in Table-cases 188-9, and feather ornaments from Ecuador exhibited in drawers accessible to the public below Table-case 190.

American Room.—The Mexican mosaics in standard Case G have been re-arranged and permanently labelled.

Gold Ornament Room.—The re-mounting and labelling of finger rings have been completed. Permanent labels have been provided for the Persian and Sassanian silver dishes in the Franks Bequest.

Registration.—The registration of current acquisitions has been continued, and 3,450 objects have been added, including ethnographical specimens.

Catalogues.—The slip-catalogue of ornamented and stamped red ware of Gallo-Roman manufacture from Britain has been completed and prepared for the press. The slip-catalogues of Maiolica and Ivories have been completed, and the Guide to the Mediæval Room prepared for the press. Progress has been made with the Guide to the Ethnographical Gallery; and an anthropological "questionnaire" for Australia prepared, and printed for the Trustees. A slip-catalogue of the Chinese porcelain has been begun, and a heraldic ordinary prepared from the works of Ciaconius and Litta.

Photographs to the number of 263 have been taken in the Department for purposes of illustration and reference; 834 type-written labels have been cut and bordered; 110 mounting boards papered, and 990 specimens mounted. Blocks to the number of 159 have been covered with velvet for finger-rings, four stands stained and varnished, and a collection from the Congo Free State unpacked, labelled, and stored. Labels, blocks, frames, and plinths have been prepared to the number of 665, and various fittings prepared for the Prehistoric Room, Buddhist Room, and Ethnographical Gallery.

Registration numbers have been painted on 3,661 specimens, and 777 permanent labels written. Several plinths of Roman inscribed monuments have been cleaned and re-written; and a number of old collections in the basement examined.

Two thousand nine hundred and ninety-five students and visitors have been received in the Department. Two parties from John Lyon School at Harrow, and parties of University Extension students from Walworth and Battersea have been conducted through various sections of the Department by members of the Staff; and a lecture on social development as illustrated by English pottery delivered to members of the North London Students' Association.

II.—*Acquisitions.*

(1.) *Prehistoric and Early British Antiquities:—*

(a.) *Stone Age.*—Two palæolithic implements from a gravel-pit at Croxley, Herts, described in *Proceedings of the Society of Antiquaries*, vol. xxi., p. 32; given by Sir John Evans, K.C.B.

A series of palæolithic implements from Knowle Farm Quarry, Savernake Forest, Wilts; given by Rev. H. G. O. Kendall.

A roughly shaped piece of quartz, perhaps an implement found by the donor on the surface at the base of Nine Maiden's tumulus, Cornwall; given by Mrs. Clement Reid.

Greenstone neolithic celt probably from N. England; given by A. E. Douglas, Esq.

Flint flakes and arrowhead found near Arbor Low, Derbyshire; given by J. B. Titterton, Esq.

A number of flint flakes from the Thames at Wandsworth.

A patinated flint knife dredged from the Thames at Cookham, Berks; given by R. E. Goolden, Esq., F.S.A.

Flint arrowheads and flakes from the Mendips; given by Wm. McPherson, Esq.

A large series of flint arrowheads and stone implements from Aberdeenshire.

(b.) *Bronze Age.*—Flat bronze celt dredged from the Thames at Hammersmith.

Fragments of a sun-disc consisting of a bronze plate with gold facing, found in a grave under a round barrow on Lansdown Links, Bath, and described in the *Proceedings of the Bath Natural History and Antiquarian Field Club*, 1906; given by Sir H. Waldemar Lawrence, Bt., and A. Waldemar Lawrence, Esq.

A hoard of eight gold bracelets, total weight 24 ozs. 8 dwt., found in a gravel-pit at Bexley, Kent; purchased from H.M. Treasury as Treasure Trove.

Pottery fragments and other objects from Rushall Down, Wilts; given by Major Wm. Hawley, F.S.A.

Bronze sickle from the Thames at Shepperton.

Two embossed gold bands from Ravencliff Cave, Derbyshire; purchased from H.M. Treasury as Treasure Trove.

(c.) *Early Iron Age*.—An ornamented bronze brooch of early La Tène type, found near Box, Wilts; given by Alfred Jones, Esq.

An engraved bronze scabbard with remains of iron dagger, and large fragments of pottery from the Thames between Putney and Hammersmith.

Weaving-comb and other tools of bone, wooden trencher, iron sickle, knives, &c., from the Thames at Wandsworth.

Iron sword from the Thames at Hammersmith, and lance-head from Mortlake.

Two iron lance-heads and ferrule of spear from the Thames at Cookham, Berks; given by R. E. Goolden, Esq., F.S.A.

Series of antiquities, comprising objects of bronze, lead, pottery, shale, bone, and horn; given by the Glastonbury Antiquarian Society.

Large vessel of thin bronze with perforation at the base and probably used for the same purpose as a water-clock; found on the causeway of an earthwork called The Berth, near Baschurch, Salop, and given by R. Wall, Esq.

Two stumps of stakes used for defending the ford at Brentford, where Cæsar probably crossed the Thames; described in *Archæological Journal*, Vol. LXIII., p. 28, and given by Montagu Sharpe, Esq., J.P., D.L.

Two spindle-whorls, from Lakenheath and Tuddenham, Suffolk; given by C. R. Jennings, Esq.

Faceted stone balls and series of spindle-whorls from Aberdeenshire.

(d.) *Foreign*.—Deer-antler pick used in the neolithic flint-mines at Spiennes, Belgium; given by Monsieur A. Louzeau de Lehaie.

A series of flint implements of palæolithic types from the High Gebel plateau, W. Thebaid; collected and given by H. R. Hall, Esq.

Four flints from the high plateau, Thebes; given by C. H. Read, Esq., F.S.A.

Saddle-back quern and rubber from Tell el-Yahudeyeh, near Cairo; given by the British School of Archæology in Egypt.

Stone chisel-edged celt from Allahabad; given by John Lewis, Esq.

Bronze sword from Jyderup, Veile, Jutland.

Pottery bowl and bead found inside it from Despeñaperros, Sierra Morena, Spain; given by Horace Sandars, Esq., F.S.A.

A series of small flint implements from river-gravels in the neighbourhood of Victoria Falls, Zambesi, described in *Report of the British Association*, 1905; given by the Exploration Committee through G. W. Lamplugh, Esq., F.R.S.

Stone implements from various sites in Victoria and Tasmania; given by E. S. Anthony, Esq.

A series of stone implements found in Northern Tasmania; given by Rev. C. G. Wilkinson.

Stone implements, one of exceptional length, found in and near gold-diggings at Kyebi, Eastern Akim, Gold Coast.

(2.) *Romano-British* :—

Fragments of inscribed stones and ivory carvings found with other remains on the site of a Roman villa in Greenwich Park, 1904; given by H.M. First Commissioner of Works.

A series of cinerary urns, vases, and dishes from burials at Seaford, Sussex, described and illustrated by the donor in *Journal of Anthropological Institute*, X., 134; given by F. G. Hilton Price, Esq., Dir. S.A.

Part of a copper cake with MF incised; found at Conway, N. Wales.

Bronze dish and enamelled pendant from Swaffham, Norfolk.

Silver finger-ring with niccolo intaglio of 3rd century, ploughed up at Wittering, Northants, and ornamented pottery vase found near St. George's Church, Southwark; given by C. H. Read, Esq., F.S.A.

Fragments of Gallo-Roman red-ware with potters' marks, from Somerset; given by Wm. McPherson, Esq.

Iron nails, cleats, and fragments from settlement on Rushall Down, Wilts; given by Major Wm. Hawley, F.S.A.

Bronze model shovel found at Cirencester; given by Mrs. Cripps.

Fragments of Gallo-Roman red-ware, some with potters' marks, found together at Carlisle; given by A. Barnes Moss, Esq.

(3.) *Anglo-Saxon* :—

Bronze brooches, gilt pendants, pin, stylus, and ivory fragment from two graves at Leagrave, Beds, 1905, described and illustrated in *Proc. Soc. Ant.*, XXI., 59, and given by Messrs. Jull Bros.

Iron spear-head found at Watford, Herts; given by C. H. Read, Esq., F.S.A.

Lance-head, key, and chain from Marston, near Grantham, Lincs.

Iron sword-knife (scramasax), probably from the Thames; given by F. G. Hilton Price, Esq., Dir. S.A.

Sword of the Viking period found with iron key below Farndon Church, near Newark, Notts; 1892; given by Rev. A. L. Sparkes.

Bronze ring-headed pin and penannular brooch, both found near Killucan, co. Westmeath, 1906, and described in *Proc. Soc. Ant.*, XXI., 64, 66; given by C. H. Read, Esq., F.S.A.

Iron sword with remains of wooden scabbard, of Teutonic type, found at Gheyta, Egypt, 1906, and given by the British School of Archæology in Egypt.

(4.) *Mediæval and Later* :—

(a.) *British*.—Two pointed and oval seal-matrices with legends **+AMA ME VERO AMO TĒ** and **IE SV SEL D'AMVREL**, late 13th century; and gilt signet ring with **IB** and crozier, from Newmarket, 16th century; given by C. H. Read, Esq., F.S.A.

Pointed oval seal-matrix of Thos. Fynyon, Abbot of the Cistercian monastery of Combermere, Cheshire, 15th century, described in *Proc. Soc. Ant.*, IX., 207; and another of the Archbishop of Canterbury's Commissary for Visitations, 14th century.

Six mortuary crosses of lead found on the site of the Grey Friars' monastery, Newgate Street, and described in *Proc. Soc. Ant.*, XXI., 18; given by F. G. Hilton Price, Esq., Dir. S.A.

Bronze gilt frame with pierced corners and engraving for a dial, 15th century.

Wooden stamp for making tiles, about 1700; given by T. Charbonnier, Esq.

Inlaid wooden inscription in black-letter, found below Holy Cross Church, Moreton Morrell, Warwickshire, and described in *Proc. Soc. Ant.*, XI., 222; girdle-end with sacred monogram and bone pins from Salisbury; and large pottery fragments with applied ornament from Christ's Hospital, Newgate Street, City of London, 16th century: all given by C. R. Baker King, Esq.

Two sepulchral brasses: coat-of-arms and two shrouded figures, 16th century; given by C. H. Read, Esq., F.S.A.

Copper plate engraved with coat-of-arms and legend, **DA GLORIAM DEO HENRY TREVILLION DIER OF LONDON GAVE THIS AN DOMINO** (sic) 1634; given by T. Whitcomb Green, Esq.

Tinned brass spoon with fleur-de-lys stamped in the bowl, late 16th century; given by H. J. Ellis, Esq.

Ivory sector with brass mounts, made by Spear of Dublin, 18th century; given by Max Rosenheim, Esq., F.S.A.

Series of lamps, rush-holders and brackets, strike-a-lights and domestic appliances from Aberdeenshire.

Mechanical bellows from Glastonbury, carding-comb from Buckfast, Devon; mill for straw-plaits, straw-splitters, bobbin for lace-making winder, flail and dibbers; given by Mrs. Edge-Partington.

A number of obsolete seal-matrices of silver and steel for British colonies and dependencies during the reign of Queen Victoria; given by the Lord President of the Council.

(b.) *Foreign*.—A remarkable medallion decorated in cloisonné enamel on both faces, with busts of St. George and St. Theodore in various colours: Byzantine work of the 11th century, described and figured in *Proc. Soc. Ant.*, XXI., 195; given by Chas. J. Wertheimer, Esq.

Silver-gilt plaque with translucent enamels of Cologne work, figures of St. Peter and a saint; early 15th century.

Bronze seal-matrices with legends; **S' RIGHONE DE VALBONA** and **S' ROVLANT DE TIMBEQVE**: 14th century; given by C. H. Read, Esq., F.S.A.

Circular bronze seal matrix of **ADAM LE GRVT**, Flemish, 16th century; given by Mr. A. P. Ready.

Brass matrix of seal of John Campeggio, Bishop of Bologna, 1553–63, consecrated Bishop of Parenzo, 1537, the legend altered; described in *Proc. Soc. Ant.*, IX., 208. Another of Marcus Fidelis Gonzaga, Bishop of Mantua, 1578–1583.

Copper plate with rivet, once enamelled, with arms of Philippa of Hainault with difference, found in Normandy; given by C. H. Read, Esq., F.S.A.

Copper-gilt plaque from a triptych, representing the Crucifixion; French work of the 14th century.

Italian bronze plaque of St. Peter, late 16th century, and oval plaque with bust, Dutch, about 1630; given by H. J. Ellis, Esq.

Gilt handle of chamberlain's key, with cypher of the Empress Catharine and Peter I. of Russia; given by M. P. Mavrogordato.

Enamelled gold snuff-box, with onyx cameo, by Neuber of Dresden, and another with sardonyx cameo, by Gibert of Paris; given by Mrs. Hawkins.

(5.) *Ceramic and Glass Collections*:—

(a.) *Oriental Wares*.—Bowl of delicate ware covered with creamy glaze, with translucent guilloche ornament round the neck, and decoration in green and blue; Persian, 13th century.

Pottery vase with turquoise glaze and line decoration in black; Persian.

A number of glazed fragments of Persian ware, decorated in various styles, 13th century.

Porcelain cup-holder in the form of a male figure on blue leaf-base: Japanese, perhaps Kameyama ware; given by J. Edge-Partington, Esq.

Chinese porcelain cup and saucer with shield of arms and motto, Persevere; given by A. A. de Pass, Esq.

(b.) *Continental*.—Maiolica albarello with male head in oval panel from the Carmichael Collection, and a pair of two-handled vases with coat-of-arms; all with decoration of Spanish type. Italian, 15th century.

Maiolica bowl of unusual size with wreaths of foliage and fruit; Faenza ware, about 1530.

Maiolica plaque of Urbino ware, representing Sinon before Priam, painted by Fra Xanto, about 1540; an oval plaque of La Belle Jardinière in Savona faïence, signed by Agostino Ratti, 18th century; and a stove-tile with figure of St. Luke, German, 17th century; all given by Sir Henry H. Howorth, K.C.I.E.

Flat dish with deer and floral design in colours; Spanish, 16th century.

Tin-glazed Toby jug found in Madrid; given by Señor Don G. J. de Osma.

(c.) *English*.—Large pottery jug, with brown glaze, found at Coventry, 14th century; given by H. H. Mulliner, Esq.

Large series of glazed pavement tiles, 14th–16th century; given by C. H. Read, Esq., F.S.A.

Pieces of pottery with applied decoration from the site of Christ's Hospital, Newgate Street, City of London, 16th century; given by C. R. Baker King, Esq.

Two Devonshire pavement tiles, one dated 1700; given by T. Charbonnier, Esq.

Cup and saucer of Worcester porcelain with the Fürstenberg mark; given by A. Hurst, Esq.

Basalt-ware teapot, with cupids and festoons, stamped Neale & Co.; given by C. R. Jennings, Esq.

Delft plate with landscape in purple, stated to have been made by Chamberlayne, Great Killiane, co. Wexford; given by Max Rosenheim, Esq., F.S.A.

(d.) *Glass*.—Glass jug and amphora with applied festoons in colours, from Ampurias, Gerona, N.E. Spain.

White vase with two rows of applied claws, and olive-green moulded cup with Greek inscription: ΕΤΦΑΙΝΟΤ ΕΦΩΤΑΡΕ; both from the neighbourhood of Olbia, S. Russia.

A remarkable series of beads, several with masks, of the Greek period, from the neighbourhood of Olbia, S. Russia.

Two beads with masks from Saft el Henna, Goshen, dating from the XXIII. dynasty, about 800 B.C. ; given by the British School of Archæology in Egypt.

Marbles and painted fragments of the Roman period from Oxyrhynchus ; given by the Egypt Exploration Fund.

Portion of bottle of rare quality with gilt decoration, human figures and foliage, made for the Sultan of Egypt, 1342-45 ; from Asia Minor, 14th century.

Stamp from wine bottle with EM and three tuns, and eight wine bottles of the 18th century ; given by C. R. Jennings, Esq.

(6.) *Collection illustrating various Religions :—*

(a.) *Buddhism.*—An important series of temple-pictures and ceremonial objects collected during the Tibet expedition ; given by the Government of India.

Series of temple-pictures from Tibet ; given by Lt.-Col. Waddell, C.B.

Silk temple-picture, ceremonial vestments of bone worn by dancers, wooden horn, stool of Shigatse work, saddle-mounts, Buddhist figure, and mould for clay figures, collected by Capt. O'Connor in Tibet.

Seven silk temple-pictures from Tibet.

A pair of gilt wooden statuettes from Japan ; given by J. Edge-Partington, Esq.

Brass dorjé or sacred thunderbolt from Japan ; given by Mrs. Edge-Partington.

(b.) *Brahminism.*—Yoni symbol supported by a tortoise ; given by Robert Day, Esq., F.S.A.

(7.) *Oriental and Ethnographical :—*

Asia.—An extensive and valuable series of weapons, ornaments, and musical instruments from the Semang and Sakai of the Malay Peninsula ; collected and given by Signor B. Cerruti.

A series of models of reptiles made at Bangkok, Siam ; given by W. H. Graham, Esq.

A series of swords from the Philippines and Celebes ; given by Sir Victor Horsley, F.R.S.

A steel mirror in brass mount from Travancore ; given by Percival Landon, Esq.

Two folding candlesticks and a netsuké strike-a-light from Japan ; given by Charles Lund, Esq.

A series of watercolour drawings of pottery figures from Japanese burial-mounds ; given by Neil Gordon Monro, Esq.

A carved wooden ceremonial figure from Borneo ; given by Dr. C. G. Seligmann.

Gold filigree necklace and earrings, from Rangoon, Burma ; given by Mrs. Eustace Smith.

A jade seal from the temple of the god of war, Pekin ; given by Clarke Thornhill, Esq.

A malachite bead used as an amulet, from Madras ; given by Mrs. Edward Thurlow.

A Dyak medicine-man's basket, containing charms.

A Sassanian silver bowl with medallions in low relief.

Africa.—An important series of weapons and utensils from the pastoral and agricultural tribes on the Anglo-German boundary and from Kavirondo, Uganda Protectorate ; collected and given by Capt. T. T. Behrens.

A collection of Masai and Ja-Luo spears and shields ; collected by the late C. M. Cowper-Coles, Esq., and given by S. H. Cowper-Coles, Esq.

An interesting series of weapons and utensils from Barotse-land, including baskets of unusual perfection of workmanship ; collected and given by W. Eatherley, Esq.

A collection of weapons, utensils, and musical instruments from Liberia ; given by Sir Harry H. Johnston, G.C.M.G., K.C.B.

An interesting series of weapons and ceremonial objects from the Pagan tribes of the province of Bauchi, Northern Nigeria ; collected and given by C. N. Temple, Esq.

A quiver from the Ituri Forest, Congo Free State ; given by the Hon. W. Rothschild, M.P.

An "Arab" woman's head ornament, and seven "Turkish" jam-spoons, from Algeria ; given by Mrs. Eustace Smith.

A large and important series of steatite carvings from Mendi-land. These carvings are found buried in the earth, and their origin is unknown to the natives, who regard them with especial veneration as agricultural charms ; collected by Lieut. A. W. Boddy.

A series of pottery vessels, including the chief types in common use at Mombasa ; collected by A. C. Hollis, Esq.

Two ancient glass beads from Accra, Gold Coast—one of spindle-whorl shape and of very remarkable size and type.

A series of stone celts from the Gold Coast—one 2 ft. 4 in. long.

A series of gold-weights and figures of cast brass from the Gold Coast.

Two carved wooden cups from the Kasai district of the Congo Free State.

Oceania.—A valuable and extensive series of ceremonial objects and utensils, many of a type hitherto unknown,

from British New Guinea; collected by the Cooke-Daniels Ethnographical Expedition, and given by Major W. Cooke-Daniels.

Specimens of clothing and utensils from Australia and British New Guinea; given by Dr. C. G. Seligmann.

A fringed skirt of woven flax of very unusual type, from New Zealand; given by John Bush, Esq.

A native canoe from the Wimmera River, N.W. Victoria; given by Professor Gregory.

A *tiki* neck-ornament in jade, of extremely unusual type, being carved on both sides, from New Zealand (described in *Man*; 1906, 53).

A series of ornaments and utensils from the Solomon Islands, including an interesting stone bowl from New Georgia; collected by C. M. Woodford, Esq.

A collection of ornaments and utensils from the Caroline Islands; collected by Mr. C. H. Kent.

A series of turtle-shell spoons and bowls from Pelew Islands.

A series of wooden ceremonial figures from German New Guinea.

A head-rest of unusual type from Tonga.

A club of unusual size from the New Hebrides.

America.—The mummy of a baby from Peru; given by Belville Stanier, Esq.

A wooden club ornamented with unusally fine carving; from British Guiana.

Three bands of old shell-wampum, probably of Eastern Algonquian manufacture (described *Journ. Anthr. Inst.*, Vol. XXXVI.; p. 176).

A large spoon made from the horn of the mountain sheep, and a model shield in copper, used as currency, from the North-west Coast.

CHRISTY COLLECTION.

During the year 796 objects have been entered in the Registration Catalogue. The Christy Trustees have acquired by donation the following objects, which they have transferred to the Trustees of the British Museum:—

I.—*Prehistoric Antiquities of Europe, Asia, and Africa*:—

Donations.—A stone celt from the Malay Peninsula; given by Leopold Cazalas, Esq.

Two stone implements of palæolithic type from Vrede-en-Lust Farm, Simondium, near Paarl, Cape Town; given by Charles Elliott, Esq.

Five stone arrowheads from El Wad, Algerian Sahara; given by Melville W. Hilton-Simpson, Esq.

A series of stone implements of palæolithic type from Vrede-en-Lust Farm, Simondium, near Paarl, Cape Town; given by C. H. Read, Esq.

Casts of two iron implements and a spear-head found at Klang, Selangor, and of an implement found in a mine at Bengkong, Batang Padang, Perak, Federated Malay States; given by L. Wray, Esq.

II.—*Ethnography of Asia*:—

Donations.—A working model of a loom from Patani, Lower Siamese States; given by Henry Balfour, Esq.

Pottery pipes from Nyoung-wé, S. Shan States; given by Lennox Bartlett, Esq.

A series of ten carved ivory spheres, one within the other, from China; given by Charles Lund, Esq.

A carved powder-flask from the Battaks of Sumatra; given by C. H. Read, Esq.

A Chinese lacquered pillow of the 17th century; given by Max Rosenheim, Esq., F.S.A.

A bow and quiver, with arrows from Pageh; given by Edwin T. Sachs, Esq.

III.—*Ethnography of Africa*:—

Donations.—An "Aggri" bead, from the Putu country, Liberia; given by I. F. Braham, Esq.

Two pottery drums from Morocco and one from Egypt; given by A. W. F. Fuller, Esq.

Five copper coins from El Wad, Algerian Sahara, and a rat-trap used by the Mekhadma tribe, near Wargla, French Sahara; given by Melville W. Hilton-Simpson, Esq.

A pottery pipe, Ba-Toka; given by E. Primmer, Esq.

A silver ear-ornament from Nubia; given by C. H. Read, Esq.

A N'Konde shield from S.E. Africa; given by Dr. F. V. Stoehr.

IV.—*Ethnography of Oceania and Australia*:—

Donations.—A stone axe found at a soakage, 60 miles E. of Mannum, S. Australia; given by G. Brunskill, Esq.

Two leaf baskets from the Solomon Islands and three from New Guinea; given by A. W. F. Fuller, Esq.

A series of ornaments and a coral throwing-club, from the New Hebrides; given by Dr. Messer.

A number of ear-ornaments from the Banks Islands, and an emu-feather girdle from an early native settlement on the site of the present city of Melbourne; given by Bishop Montgomery.

A club from the Marquesas, a spear from Fiji, a fragment of jade, showing the method employed by the Maori for cutting, from New Zealand, and a series of stone implements from Rushworth, Victoria, Australia; given by C. H. Read, Esq.

A ceremonial torch from Torres Island; given by Rev. L. P. Robins.

A number of small cubical stones from the N.E. border of S. Australia, called by the natives "devil's dice"; given by Ross Smith, Esq.

Four carved ceremonial boards from British New Guinea; given by Dr. W. M. Strong.

V.—*Antiquities and Ethnography of America* :—

Donations.—A bamboo case containing Urali poison, from Peru; given by Mrs. Edward E. Benest.

A pottery vase from Homolobi, near Winslow, Arizona; given by W. Crewdson, Esq.

A series of stone implements and fragments of painted pottery, from Taltal, Atacama, Chile; given by Oswald H. Evans, Esq (described in *Man*, 1907, 41).

Four flint arrow-heads from Las Vegas, New Mexico; given by C. B. Hodgson, Esq.

An unusually fine specimen of carved wooden club armed with a large stone celt, from British Guiana; given by C. H. Read, Esq.

Charles H. Read.

DEPARTMENT OF COINS AND MEDALS.

I.—*Exhibitions.*

The naval medals shown in the King's Library in connection with the Nelson Centenary Exhibition have been replaced in the cabinets in the Medal Room.

II.—*Registration and Arrangement.*1. *Greek Series* :—

321 coins, recently acquired, and 12 coins from the Parkes Weber collection have been registered and incorporated; 1,245 tickets giving references to the Catalogue *Parthia* have been written and placed beneath the coins. Three series of Phoenician coins have been examined, and selections have been made for the Museum. The MS. catalogue of a large collection of Phoenician coins, formed at Beyrout, has been examined. Additions have been made to the MS. bibliography of Greek numismatics.

Rectifications and re-arrangements, in accordance with recent literature, have been made in the following series :—Terina; Characene; Persis; Elymais (Susiana); coins of Athenian and Macedonian types of Indian *provenance*. The Phoenician series in the Berlin Museum and other collections have been examined and noted in preparation for the Catalogue *Phoenicia*.

2. *Roman and Byzantine Series* :—

137 Roman and Byzantine coins recently acquired have been registered and incorporated. 58 Byzantine coins from the Parkes Weber collection have been registered and incorporated.

A hoard of Roman silver coins of the 4th century A.D., discovered at Grovely Wood, Wilton, Salisbury, has been examined and a selection from it made. A small hoard of early Roman Imperial denarii found near Scott Lane, Sheffield, has been examined and reported on to H.M. Treasury.

A collection of Byzantine coins sent from Germany has been examined, and a selection has been made.

3. *British and Colonial Series* :—

248 coins and medals have been registered and incorporated. The Anglo-Gallic series has been partially re-arranged. The English medals struck between 1831-1837 have been re-arranged and placed in new cabinets, and the medals of Societies have been transferred to a separate cabinet.

4. *Mediæval and Modern Series* :—

470 coins and medals recently acquired have been registered and incorporated.

99 coins from the Parkes Weber collection have been registered and 82 incorporated.

237 Portuguese coins from the Freudenthal collection have been incorporated.

The Renaissance portrait-medals of French, Flemish, and Dutch origin have been separated from the general series of Personal medals and arranged in a new cabinet. The French medals have been arranged in order of artists' names, and progress has been made with the hand-list of medals of the 16th and 17th centuries.

A collection of the coins of the Princes of Achaia has been examined and a selection made.

The collection of Dr. F. Parkes Weber (see *infra* under "IV. *Acquisitions*") has been examined, and 5,551 pieces selected from it as desirable for the Museum have been presented by Dr. Weber.

A MS. index has been begun of the principal coin-inscriptions recorded in the *Traité de Numismatique* of Engel and Serrure.

5. *Oriental Series* :—

302 coins recently acquired have been registered and incorporated.

1,122 coins from the Cunningham collection and 299 from the Bank of England Collection have been registered and incorporated.

Three series of coins from Persia have been examined and selections made.

The series of the Moghul Emperors of Delhi has been expanded.

New descriptive labels and heading-cards have been written for a portion of the Oriental collection, and an index to the 64 cabinets containing the collection (exclusive of the Far East series) has been prepared.

III.—*Catalogues.*

1. CATALOGUES OF GREEK COINS.

Coins of Phrygia, by Barclay V. Head.

This volume has been completed and published.

Coins of Phoenicia, by G. F. Hill.

The coins of Berytus, Carne, and Marathus have been weighed, arranged, and described, and portions of the Introduction have been written.

2. CATALOGUES OF ROMAN COINS.

Roman Republican Coins, by H. A. Grueber.

Signatures Z—30 have been passed for press, and Plates XXXVI.—LIV. have been photographed.

Imperial Byzantine Coinage, by Warwick Wroth.

The coins of Basil II. (A.D. 976) and his successors to A.D. 1453 have been classified, weighed, and described. The MS. has been revised with the coins from Anastasius I. to Heraclius. Plaster-casts for Plates I.-XL. have been prepared and mounted, and Plates I.-XL. have been sent to press.

3. CATALOGUES OF BRITISH COINS AND MEDALS.

Medallic Illustrations of the History of Great Britain and Ireland, by Hawkins, Franks, and Grueber. (Atlas of plates with letterpress.)

Part V. comprising Plates XLI.-L. has been prepared and published. Progress has been made with the preparation of Part VI.

4. CATALOGUES OF ORIENTAL COINS.

Indian Coins.—Andhras and Western Kshatrapas, by E. J. Rapson.

Signatures E, F, G have been passed for final press, and 23 blocks reproducing coin legends have been prepared.

IV.—*Acquisitions.*

The total number of coins and medals added to the Department during the year 1906 was 7,074, of which 211 are of gold, 2,115 of silver, 3,552 of bronze, and 1,196 of other metals.

The following table shows the numbers of the new acquisitions classified according to the several series to which they belong:—

Class.	Gold.	Silver.	Bronze.	Other Metals, &c.	Total.
Greek	18	241	368	15	642
Roman	25	29	168	81	303
British and Colonial	2	199	769	265	1,235
Mediaeval and Modern	42	961	2,054	770	3,827
Oriental	124	685	193	65	1,067
Total	211	2,115	3,552	1,196	7,074

Of the above, 5,953 have been presented, viz., 108 of gold, 1,450 of silver, 3,203 of bronze, and 1,192 of other metals. This very large number of presentations is due mainly to the munificent gift of Frederick Parkes Weber, Esq., M.D. (See below, page 96.)

The following is a list of the benefactors to the Department of Coins during the past year :—

H.R.H. The Prince of Wales; the Bombay Branch of the Royal Asiatic Society; the Government of Bengal, India; the Government of Bombay; the Government of the Central Provinces, India; the Government of the United Provinces of Agra and Oudh; the Government of Eastern Bengal and Assam; the Government of the Panjab; the Council of the Linnean Society; the Montreal Numismatic Society; the New York Jewish Anniversary Celebration Committee; the Society of Antiquaries of Scotland; the Director of Customs, Shanghai; the Trustees of the Wallace Collection; J. S. Agnew, Esq.; Rupert C. Alabaster, Esq.; H. F. Amedroz, Esq.; Dr. W. C. R. Barnes; Prof. Julius Beltowski; William Bird, Esq.; the Rev. J. Harvey Bloom; Lady Bolton; the late W. C. Boyd, Esq.; C. S. Browne, Esq.; Sig. A. Cantacuzino; William Carruthers, Esq., F.R.S.; J. S. Cotton, Esq.; W. B. Denny, Esq.; the Rev. Arthur Dixon; Mrs. H. M. Elliott; R. W. Ellis, Esq.; Sir John Evans, K.C.B., F.R.S.; L. Forrer, Esq.; Evelyn Grant Duff, Esq.; Major Stuart H. Godfrey; Odön Gohl, Esq.; Lord Grantley, F.S.A.; Henry Grogan, Esq.; F. W. Hasluck, Esq.; Miss Alice Head; the Rev. A. C. Headlam, D.D.; G. F. Hill, Esq.; Sir Henry H. Howorth, K.C.I.E., F.R.S.; R. A. Inglis, Esq.; Mrs. Jeffcock; H. Neville S. Langton, Esq.; A. J. Lawson, Esq.; J. Bruce Leask, Esq.; Miss H. L. Lorimer; Angus MacIntyre, Esq.; M. Pierre Mavrogordato; J. R. McClean, Esq.; M. Julius Meili; Prof. C. Oman; A. H. Parker, Esq.; Sir Augustus Prevost, Bart.; H. L. Rabino, Esq.; H. A. Ramsden, Esq.; C. T. Reed, Esq.; J. T. T. Reed, Esq.; Max Rosenheim, Esq., F.S.A.; H. Sandars, Esq., F.S.A.; Lieut.-Col. J. G. Sandeman, M.V.O.; W. W. Simpson, Esq.; Messrs. Spink and Son; Beville Stanier, Esq.; Alan J. B. Wace, Esq.; H. B. Walters, Esq.; R. E. Way, Esq.; Frederick Parkes Weber, Esq., M.D., F.S.A.; W. H. Whittingham, Esq.; J. W. Willis-Bund, Esq., F.S.A.; W. Wroth, Esq.; Col. the Hon. C. E. Yate.

REMARKABLE COINS AND MEDALS.

Among the coins and medals which have been added to the National Collection during the year 1906, the following are the more important :—

1. *Greek Series* :—

(a.) *Europe* :—

Sicily.—A silver coin (wt. 18 grains) of the 5th cent. B.C. with the obverse type, astragalus and legend **KA** and with the reverse type, dolphin and legend **FIM**. This extremely rare coin is attributed by Garrucci (*Monn. Ital. Ant.*, p. 154) to a joint-issue between the cities of Casarium in Bruttium and Himera in Sicily.

A drachm of *Messana*, *circ.* B.C. 480, of the usual type: *obv.* Charioteer and biga of mules; *rev.* Running hare, **ΜΕΣΣΕΝΙΟΝ**; but without the usual figure of Nike on the obverse.

Thrace.—A silver stater of *Maroneia*, *circ.* B.C. 400, of the Persic standard: *obv.* Prancing horse; *rev.* Vine-branch with grapes. Under the horse is an adjunct symbol, a small dog of the breed commonly known as "Pomeranian": magistrate's name, **ΕΠΙ ΚΑΛΛΙΚΡΑΤΕΟΣ**.

Thracian Chersonese.—Two bronze coins of Gallienus struck at *Coela* with types of reverse, the wolf and twins, and Aeneas with Anchises and Ascanius and the legend **AEL. MVNICIP. COEL.** (*Aelium Municipium Coela*).

Thessaly.—An archaic half-drachm of the *Perrhaebi* of the 5th cent. B.C.: *obv.* A Thessalian horseman with a *stete* beneath his horse; *rev.* Thetis seated holding a crested helmet; legend **ΠΕΡΑ** (retrograde).

Insulae Thessaliae.—An ancient plated tetradrachm of *Peparethus* of the early 5th cent. B.C. of the Euboic standard: *obv.* Large bunch of grapes with the letters **ΠΕ** (*Peparethus*); *rev.* Bearded Dionysos enthroned, holding *kantharos* and *thyrsos*, within an incuse square; another, not plated, with types; *obv.* Large bunch of grapes surrounded by four dolphins swimming; *rev.* Youth riding on a dolphin, within an incuse square; and a bronze coin with types; *obv.* Head of bearded Dionysos crowned with ivy; *rev.* *Kantharos* with sprays of ivy and vine around it; legend **ΠΕ** (*Peparethus*). The silver coins are unique and unpublished. These three interesting coins were recently discovered at *Volo*, the ancient *Demetrias*, on the mainland of Thessaly, and at *Skopelos*, the ancient *Peparethus*, an island off the coast of Thessaly to the north of *Euboea*. The silver pieces are of the highest importance for determining the locality of a considerable series of coins of similar types and fabric, which had been conjecturally attributed to *Cyrene* and to other localities. The types relate to the cult of *Dionysos* in the island of *Peparethus*, very famous for its vines in ancient and modern times. It has been suggested that the bunch of grapes may also be regarded as a "canting device," containing an allusion to the name of the traditional colonist and founder "Staphylos."

Epirus.—Two silver drachms of *Epirus*, *circ.* B.C. 250.

Presented by Sir Henry H. Howorth, K.C.I.E., F.R.S.

Acarmania.—A didrachm of *Leucas* of the 2nd cent. B.C.: *obv.* Statue of *Aphrodite* *Αἰνείας*; *rev.* Prow of racing galley, inscribed on the side with its name.

At *Leucas* as well as at *Corcyra* it appears to have been the custom to inscribe their names on the racing boats (see *Hist. Num.* p. 277).

Euboea.—Two rare staters of Aeginetic weight dating from about the end of the 5th cent. B.C.: *obv.* A recumbent ox; *rev.* The head of the nymph, Euboea.

Attica.—Two tetradrachms of *Athens* of the 5th cent. B.C., with head of Athene and owl; found at Naukratis in Egypt.
Presented by H. Neville S. Langton, Esq.

Corinth.—Three silver Corinthian colonial coins, and five silver coins of Dyrrhachium.

Presented by Sir Henry H. Howorth, K.C.I.E., F.R.S.

A bronze coin of Septimius Severus, *circ.* A.D. 200, with the type of reverse, the hero Lycurgus attacking a dragon, which devours his son Opheltes—a type probably copied from a mural painting or relief.

Achaia.—A bronze coin of Septimius Severus struck at *Bura* with the type of reverse, a half-nude figure of Aphrodite seated on a throne and holding a sceptre terminating in a golden apple. This is probably a copy of the statue by Eukleides mentioned by Pausanias (vii., 25, 5).

Argos.—A bronze coin of M. Aurelius with the type of reverse, the hero Lycurgus attacking a serpent erect on the body of the dead Opheltes; near which stands his nurse, Hypsipyle (Pausanias, ii., 15, 2).

Scyros (?).—A copper coin with *obv.* Youthful male head; *rev.* Crayfish: symbol, buccinum shell. This coin belongs apparently to an unidentified mint: possibly *Scyros*, a town in the island of that name in the Aegean Sea, and one of the Northern *Sporades*, so called from its ruggedness.

(b.) Asia:—

Mysia.—Three copper coins of *Attaea*, *Cyzicus*, and *Parium*.
Presented by F. W. Hasluck, Esq.

A medallion in bronze of Caracalla struck at *Cyzicus* with the reverse type, the Emperor standing before Sarapis, who is seated.

Caria.—An unpublished didrachm of *Cnidus*, *circ.* B.C. 400-390; *obv.* Head of Aphrodite; *rev.* Lion's head in an incuse square.

Lydia.—A bronze coin of Julia Maesa, grandmother of Elagabalus, struck at *Philadelphia* with the type of reverse, the statue of the Praxitelean Hermes of Olympia. This type occurs on coins of Caracalla, but hitherto was unknown on those of Julia Maesa.

A unique and very remarkable half-stater, probably Lydian, dating from the 7th cent. B.C.: *obv.* Bearded head or bust of a divinity apparently winged; *rev.* Three incuse sinkings (oblong between two squares). The style and fabric of this coin resemble very closely some of those recently

discovered during the excavations at Ephesus, which were carried out by the order of the Trustees of the British Museum.

Cyprus.—A tetrobol of *Salamis* of King Nikodamos, *circ.* B.C. 460–450: *obv.* Recumbent ram.: *rev.* The *Ankh*; and the name of the king and of the city in Cypriote characters.

Phoenicia and Palestine.—A series of fifty-eight silver and eighty-nine bronze coins comprising:—*Aradus*, two early staters, *circ.* B.C. 400–350, with head of Melkarth and galley; also a series of drachms of the 2nd cent. B.C. with Ephesian types, proving the existence of a monetary alliance between that city and Ephesus: *Sidon*. A double stater of Straton II., B.C. 346–332, with Artaxerxes III. (Ochus) in a chariot; and another with the name of the Satrap Mazaïos: *Tyre*. A stater, *circ.* B.C. 450–332, with Melkarth seated on a sea-horse and owl with crook and flail; also a series of tetradrachms with head of Herakles and an eagle on prow, with various dates from B.C. 124–12; and *Jerusalem*, drachms of the Second Revolt, A.D. 132–135, bearing the name of Simon Barcochab, &c.

Persia.—A counter-marked siglos of the Achaemenid dynasty. Presented by *W. W. Simpson, Esq.*

2. Roman and Byzantine Series:—

An unpublished copper denarius of Carausius: *obv.* Bust of Emperor, radiate; *rev.* Seated figure of Roma; legend, **ROMAC (sic) AVG.**

Presented by the late *W. C. Boyd, Esq.*

An unpublished solidus with the heads of Heraclius and Heraclius Constantine, A.D. 641; probably struck in Italy.

A very rare solidus of Leo VI., A.D. 886–917: *obv.* Bearded bust of the Emperor; *rev.* Bust facing of the Virgin Mary.

A solidus of the Byzantine Emperors, Nicephorus II. and Basil II., A.D. 963, with their busts on the obverse and Christ holding the book of the gospels on the reverse. A very rare coin.

A solidus of Theodora, sister of Zoë, wife of the Byzantine Emperor, Constantine IX., A.D. 1055–1056. A rare coin, and interesting for the details of her rich costume.

3. British and Colonial Series:—

A penny of Henry I. struck at Romney in Kent, having on the obverse the bust of the king holding a sceptre and on the reverse the moneyer's name and that of the mint, **PVLFRED ON RVME**, arranged in two concentric circles with a cross pattée in the centre. This coin, besides being of the rarest type of Henry I., establishes the fact that the mint of Romney was in operation during his reign.

A penny of Henry I. struck at Gloucester and having for the reverse type five annulets arranged in the form of a cross and the moneyer's name "Godwi."

A naval reward medal in silver of Elizabeth commemorating the defeat of the Spanish Armada, and having on the reverse a representation of the ark on waves. This medal is of the 18th cent. and is a copy by the engraver Stuart from original medals. It is described in the *Medallic Illustrations*, Vol. I., p. 149, no. 121.

The "Descente en Angleterre" medal in lead ordered by Napoleon I. to be executed when he was making preparations for an invasion of England in 1804. On the obverse is the head of Napoleon; and on the reverse Hercules overthrowing a marine giant with the legend **DESCENTE EN ANGLETERRE—FRAPPÉE À LONDRES EN 1804**. This medal was struck from unfinished dies made by Jeuffroy and Denon, and is probably unique. It formerly belonged to Dr. Burney, by whom it was sold in 1846 to Mr. Charles Stokes, whose collection was recently dispersed. The existence of this medal was known to the Museum, but it had been lost sight of since the middle of the last century.

A proof in bronze of the Lloyd's medal for "Saving Life at Sea," 1839.

Presented by Miss Alice Head.

A prize medal in bronze of the Moffat Academy Club, 1860; and another in pewter of Peter Johnstone of Harthope, 1865.

Presented by William Carruthers, Esq., F.R.S.

The Worcestershire County Council Medal for "Unbroken School Attendance" in bronze.

Presented by J. W. Willis-Bund, Esq., F.S.A.

The prize medal in silver of the Linnean Society.

Presented by the Council of the Linnean Society.

4. Mediaeval and Modern Series:—

A bronze medal of Francesco Sforza, Duke of Milan, A.D. 1450–1466, by Ambrogio Foppa, called "Il Caradosso." On the obverse is the bust of the Duke, and on the reverse the Duke receiving prisoners with the legend **CLEMENTIA ET ARMIS PARTA**.

Presented by Max Rosenheim, Esq., F.S.A.

Six silver and four base metal deniers of Arezzo, Bologna, Genoa, Naples, Perugia, and Ravenna.

Presented by Lady Bolton.

A series of mediæval and modern Spanish coins, comprising 209 specimens in silver and 184 in copper. Besides many coins of the 17th and 18th centuries, this selection included a large number of deniers and gros of Castille and Leon—Alphonso VI., A.D. 1072–1100; Ferdinand III., A.D. 1230–1252; of Castille alone—Sancho II., A.D. 1284–1295; Peter I. (El Cruel), A.D. 1350–1368; Henry III., A.D. 1390–1406; and of Ferdinand and Isabella, A.D. 1504–1516.

Ten silver, four copper, and eleven pewter coins of Goa and the Portuguese colonies.

Presented by Henry Grogan, Esq.

Three silver and one copper medal of the Paris Exhibition of 1900; one silver and one copper medal of the Mint at Paris, 1900; and a silver medal with heads of St. Peter and St. Paul by the German medallist Bastian Hille, A.D. 1666-1726.

Presented by J. R. McClean, Esq.

A specimen in silver of the medal presented in 1841 by the President of the United States, John Tyler, to the American Indian Chiefs, having on the obverse the head of the President, and on the reverse two hands clasped; above, a pipe and a tomahawk crossed.

5. *Oriental Series* :—

The "Prince of Wales Medal" for the decoration of deserving native officials during the recent visit to India of their Royal Highnesses the Prince and Princess of Wales. Bronze.

Presented by H.R.H. the Prince of Wales.

A series of 96 gold and 331 silver coins of various Arab dynasties. This selection, which formed a portion of the collection of the late Mr. J. M. C. Johnston, extends over a wide range of Arab numismatics and includes many rare coins of the Bence Abbad and the Bence Hood of Seville and Saragossa; the Bence Idrees and Aghlabids of Africa; the Bence Tooloon of Egypt; the El Murabiteen of Tunis; the Sheybanee of Transoxiana and the Khans of Khokand. The larger dynasties, such as those of the Abbasee Khaleefehs, the Fatimee Khaleefehs, and the Mongols of Persia are represented by numerous specimens.

A series of forty-five silver and three nickel coins of the Amawee and Abbasee dynasties, of the Mongols of Persia and of the later rulers, and of Delhi; also a copper Sassanian coin and four Parthian drachms of Mithradates III.

Presented by Evelyn Grant Duff, Esq.

Three rupees of the Moghul Emperors of Delhi, Aurangzib 'Alamgír, Sháh-'Alam Bahádur, and Farrukh-Siyar, found in the Larkhana district, Sind.

*Presented by the Bombay Branch of the
Royal Asiatic Society.*

Two mohurs of the Moghul Emperors of Delhi, 'Alamgír II. and Sháh-'Alam II., found in the Poona district.

*Presented by the Bombay Branch of the
Royal Asiatic Society.*

Four silver coins of the Moghul Emperors of Delhi, Sháh-Jahán, Aurangzib 'Alamgír, Farrukh-Siyar, and Muhammad Sháh.

*Presented by the Bombay Branch of the
Royal Asiatic Society.*

Seven rupees of the Moghul Emperors of Delhi, Ahmad Sháh and 'Alamgír II., struck at Jahángírnagar, Murshidábád, &c. *Presented by the Bengal Asiatic Society.*

Thirty-two rupees of the Moghul Emperors of Delhi, Akbar, Sháh-Jahán, Aurangzib 'Alamgír, Bahádur Sháh, Muhammad, Sháh 'Alam, and Muhammad II.; and thirteen copper coins of Akbar, Sháh 'Alam II., Akbar II., &c. Also two Indo-Scythic tetradrachms of the "Great King."

Presented by R. W. Ellis, Esq.

A Parthian drachm and twenty-two silver and two copper Persian coins, mostly of the Kájár dynasty.

Presented by H. L. Rabino, Esq.

Four silver coins, drachms, of Sinatruces of Parthia (B.C. 77-70) and three silver modern Persian coins.

Presented by Evelyn Grant Duff, Esq.

Three silver coins of Málwa found in the Hoshangábád district and two others of the Moghul Emperors, Ahmad Sháh, found in the Chindwara district.

Presented by the Government of the Central Provinces, India.

A gold pagoda of Bijapur struck before the Muhammadan rule.

Presented by the Government of Bombay and Assam.

Four silver coins of Kabul (Sámanta Deva) and two others also of Kabul (Spalapati Deva).

Presented by the Government of the Panjab, India.

Two silver Ahom coins of Siva Simha, A.D. 1714-1744.

Presented by the Government of Eastern Bengal and Assam.

Eight silver coins of Assam of Pramatta Simha Gauri-Natha, and Laksmí-Simha.

Presented by the Government of Eastern Bengal and Assam.

Twenty-four silver and plated Chinese provincial and other coins.

Presented by Dr. W. C. R. Barnes.

THE PARKES WEBER COLLECTION.

Dr. Frederick Parkes Weber, who had formed an extensive collection of coins and medals, generously placed it at the disposal of the Trustees with a view to selecting such specimens as might be required for the British Museum. The collection consisted of Ancient Greek and Roman coins, and of Mediæval and Modern, British and Colonial and Oriental coins and medals. Amongst the Greek coins selected are several British and Gaulish gold staters and half-staters,

and other staters of Philip II. of Macedon and Alexander the Great, together with some rare silver coins of Metapontum, Croton, Paeonia, Macedonia, Crete, &c.; and in the Roman series some early interesting bronze pieces of the Republic, silver and bronze coins of the Empire, and Byzantine solidi and siliquae, &c. As the collection was very strong in the Mediaeval and Modern series the selection from these portions was very large, numbering 4,520 specimens. Amongst the mediaeval medals are two fine leaden proofs by Pisanello of Piero Candido Decembrio (A.D. 1399-1477), President of the Republic of Milan, and of Vittorino da Feltre (A.D. 1379-1447), distinguished orator, philosopher, and mathematician. There is also a unique lead medal, probably by a German engraver, of Theophrastus Paracelsus (A.D. 1493-1541), the eminent Swiss physician, who in the course of his journeys appears to have visited France, Spain, England, and other European countries. The modern medals are represented by the works of David D'Angers (of which hitherto the British Museum had possessed none), of Roty and Scharff among others. The selection of British and Colonial coins and medals is of great value, filling many gaps in the Colonial series and adding very largely to that of the modern personal and historical medals. In illustration of primitive forms of currency the donation includes a number of specimens of bar and ring-money, such as the silver bars used in mediaeval Russia and bronze rings from Africa; of the curiously-shaped coins from various countries of the East, such as the hat pieces of Pahang, the boat-money and tikals of Siam, and the fish-hooks of the Persian Gulf. Dr. Parkes Weber made a speciality of collecting tokens and other curious pieces, badges, tickets, counters, &c., bearing indirectly on the study of numismatics, and also of pieces showing the technique and materials of coinage and medallic work such as dies, wax-models, trial-pieces, patterns, and specimens submitted in public competitions for the designs of coins. From these a large selection was made, and also of specimens representing the methods of forgery and adulteration.

The following table gives a view of the number of coins and medals selected for the Museum:—

Class.	Gold.	Silver.	Bronze and Brass.	Lead, &c.	Total.
Greek - - - - -	17	122	206	14	359
Roman - - - - -	21	26	147	81	275
Mediaeval and Modern - - - - -	42	714	1,845	756	3,357
British and Colonial - - - - -	—	168	740	255	1,163
Oriental - - - - -	25	175	145	52	397
Totals - - - - -	105	1,205	2,083	1,158	5,551

Grand Total, 5,551 pieces.

This donation of coins and medals is one of the most important received in the Department of Coins and Medals, and will go far to render more complete many series, especially that of the modern medals.

V.—*Students and Visitors.*

The number of visits made to the Department of Coins and Medals by students and others during the year 1906 was 4,365.

H. A. Grueber.

X.—BRITISH MUSEUM (NATURAL HISTORY).

STATEMENT of PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and ACCOUNT of OBJECTS added to them, in the Year 1906.

GENERAL PROGRESS.

Visitors.

The total number of visits recorded as having been made to the Museum by the public during the year 1906 was 472,557, as compared with 566,313 in 1905. This number included 61,151 visitors on Sunday afternoons, as against 70,084 in the previous year.

The average daily attendance for all open days was 1,301·8; for week-days only, 1,322·8, and for Sunday afternoons, 1,176.

Swiney Lectures.

The subject of Dr. R. F. Scharff's first course of lectures on the Swiney foundation was "The Geological History of the European Fauna." The lectures, 12 in number, were again given in the theatre at the Victoria and Albert Museum (by permission of the Board of Education) in the month of November, the hour for commencement being experimentally altered from 5 to 6 p.m.

The average attendance for the course was 160, as compared with 328 in 1905.

New Drainage System.

The drainage of the Museum by an improved system has been completed, the work having been carried out by His Majesty's Office of Works, &c.

Electric Lighting.

The electric light having been installed in the studies throughout the building, the First Commissioner of His Majesty's Works, &c., has been asked to submit a plan for lighting the galleries for the consideration of the Trustees.

Heating Apparatus.

The heating apparatus, which has been in use since 1880, having become very defective, the Trustees have been in communication with the First Commissioner of His Majesty's Works, &c., with reference to a new installation of pipes, &c. for warming the building. A scheme prepared by the Chief Engineer of the Board of Works for the better heating and ventilating of the Museum is under consideration.

Telephones and Fire-Alarms.

Telephone fire-alarms have been provided, communicating from ten stations in various parts of the building direct with the firemen's room; also an internal telephone system, by means of which the several departments of the Museum are placed in communication.

Geological Exploration in Egypt.

Dr. C. W. Andrews, Assistant in the Geological Department, resumed in the spring of the year geological excavations in the Fayûm, Egypt—the expenses of this mission being defrayed out of the funds generously placed at the disposal of the Trustees by Mr. W. E. de Winton.

Dr. Andrews brought back numerous valuable additions to the collections of vertebrates already obtained from that locality. The most important specimens are:—(1) An associated skull and mandible of *Palæomastodon wintoni*, with the dentition, including the tusks, in perfect preservation. With these were also found several limb-bones belonging to the same animal. The occurrence of associated groups of bones in these beds is quite exceptional. (2) A beautifully preserved mandible of a young *Palæomastodon* with the milk teeth *in situ*, and beneath them the germs of the replacing premolars. The incisors are serrated at the edge as in the animal described as *Phiomia*, which, therefore, is probably the young of a small *Palæomastodon*. Other specimens were jaws of the Hyracoid *Sagatherium* and of the peculiar ungulate *Geniohyus*. Numerous remains of *Arsinoitherium*, including the greater part of a skull, were also collected.

Dr. Andrews was again indebted to Captain H. G. Lyons, F.R.S., for much help in preparing for his expedition and in facilitating transport.

Expedition to Gunong Tahan, Federated Malay States.

An interesting collection of zoological and botanical specimens has been obtained for the Museum by Mr. H. C. Robinson, Curator of the Selangor State Museum, as the result of an expedition made by him to Gunong Tahan, Federated Malay States, with the aid of a grant from the provision for purchases.

Purchases.

Among the more important purchases made during the year, special mention may be made of the following:—

A mounted specimen of the African elephant, with pair of tusks and skull; a second instalment of Dr. D. Sharp's collection of coleopterous insects, consisting of about 50,000 specimens representing ten families, and including about 1,000 types; a collection of 4,000 birds from Eastern North

America, the Bahama Islands, and Mexico, including many types; a well-preserved skeleton of ichthyosaurus from the lower lias of Somersetshire, showing contained embryo—the only example containing an embryo hitherto discovered in England; a collection of reptilian remains from the upper cretaceous of Transylvania, all new to the Museum, and including the most important series of bones of the latest *Dinosauria* hitherto discovered in Europe; and the collection of fungi made by the late Mr. W. Phillips, comprising about 10,000 specimens, 3,200 drawings, and 36 manuscript note-books.

Bequest.

A valuable collection of Indian shells has been bequeathed to the Museum by the late Dr. W. T. Blanford, F.R.S. The bequest comprises all Dr. Blanford's type-specimens and such other portions of his own collection as were desired for the Museum, and also the whole of the collection left to him by his brother, Mr. H. F. Blanford. The extent of the selection retained for the Museum is estimated at about 2,000 specimens.

Presents.

The total number of presents recorded as having been received during the year by the several Departments of the Museum was 2,057, as compared with 2,092 in 1905. Many of these comprised large numbers of individual specimens. The details of all the more important of them will be found in the reports of the Keepers of the Departments, but the following are mentioned here also as being of special interest or importance:—

From His Grace the Duke of Bedford.—A second collection of zoological specimens from Japan and Korea, consisting of over 500 mammals (12 being new species) and 256 birds, obtained by Mr. M. P. Anderson, as a further result of the zoological exploration of Eastern Asia which the Duke is carrying out; all the specimens so collected being presented by him to the Trustees.

From C. D. Rudd, Esq.—A further series of specimens collected by Mr. Claude Grant in South Africa, consisting of 235 mammals, 231 birds, and 60 reptiles and fishes, in continuation of the systematic survey of the fauna of South Africa which is being made with funds provided by Mr. Rudd, the specimens so obtained being presented by him to the Museum.

From W. E. Balston, Esq.—An important collection of natural history specimens obtained by Mr. G. C. Shorthridge in Western Australia, comprising 416 mammals, 693 birds, 96 reptiles, &c., and including many new species.

From the Government of India.—Large collections of Insects from Tibet, collected by Captain H. J. Walton, I.M.S., and the Officers of the Tibet Frontier Commission.

From H. J. Elwes, Esq., F.R.S.—A further portion of his collection of butterflies, consisting of 3,936 specimens of *Lycanidæ*, 592 *Pyralidæ*, &c.

From F. D. Godman, Esq., D.C.L., F.R.S.—Further consignments of Central American insects, consisting of 941 specimens of wood-boring Coleoptera of the family *Scolytidæ*, and 214 specimens of three families of Clavicornia.

From Mrs. Crombie.—The lichen-herbarium of her husband, the late Rev. J. M. Crombie, author of Part I. of the "Monograph of Lichens found in Britain," published by the Trustees. Much of Mr. Crombie's herbarium was acquired for the Museum during his life-time; the material presented by his widow consists of about 5,000 specimens, his lichenological manuscripts and correspondence, and 30 bound volumes of pamphlets.

From Mons. H. Fayol.—A series of fossil insects and fossil fishes from the coal measures of Commeny, Allier, France, the carboniferous insects in the collection being very rare.

From the Peabody Museum of Yale University, U.S.A.—A life-size model of a skeleton of the gigantic toothless flying reptile *Pteranodon longiceps* from the chalk of Kansas.

From Mr. F. Justen.—A copy of the facsimile issue of the "Codex Aniciæ Julianæ" of Dioscorides, from the original in the Imperial Library at Vienna.

Exchanges and Gifts of Duplicates.

Exchanges of duplicate specimens and casts have been made with several institutions and individuals.

Certain duplicate zoological specimens have been lent to the International Exhibition at Marseilles, section of Oceanography, and safely returned to the Museum.

The following have been added to the list of institutions to receive grants of duplicate specimens of Natural History, viz.:—the Geological Department of the University of Glasgow; Salisbury, South Wilts, and Blackmore Museums, Salisbury; and the Evening Education Committee of the Garden City, Letchworth, Herts.

Selections of duplicate specimens have been presented, as follows:—

Of zoological specimens—to the La Plata Museum; Chadwick Museum, Bolton; the Technical Education Board of the London County Council; the Infants' School, Sandy, Beds.; Derby Public Library and Museum; the Municipal Art Classes of Leominster and Ludlow; the Natural History Museum, Basle; the Royal College of Surgeons; the Government Medical School Museum, Cairo; the Rev. Canon Horsley; Dr. Günther Enderlein; Captain H. H. Harington; Dr. R. Gestro, of Genoa Museum; Prof. T. D. A. Cockerell; Mr. P. Lesne, of Paris Museum; Mr. E. Meyrick; Mr. A. Grouvelle; Mr. S. Schenkling; and Prof. E. L. Bouvier.

Of fossils and casts of fossils—to Liverpool University; the Geological Department of Glasgow University; the University of Aberdeen; Dr. H. C. Sorby, F.R.S.; Mr. R. Etheridge; Mr. C. S. Tomes, F.R.S.; Mr. Carlo Jooss, of Stuttgart; Mr. E. S. Goodrich, F.R.S.; and Prof. J. Welsch.

Of minerals—to the Geological Survey of India, Calcutta.

Of plants—to the Royal College of Science.

Publications.

The under-mentioned works on Natural History have been published during the year :—

History of the collections contained in the Natural History Departments of the British Museum. Vol. II. Department of Zoology. Pp. 782. 8vo. 30s.

Descriptive Catalogue of the Tertiary Vertebrata of the Fayûm, Egypt. Based on the collection of the Egyptian Government in the Geological Museum, Cairo, and on the collection in the British Museum (Natural History). By C. W. Andrews, D.Sc., F.R.S. Pp. xxxvii, 324: 98 text-figures and 26 plates. 4to. 35s.

Illustrations of British Blood-sucking Flies, with notes by E. E. Austen. Pp. 74: 34 coloured plates. Roy. 8vo. 25s.

Catalogue of the Lepidoptera Phalænæ (Moths) in the British Museum. Vol. VI. Noctuidæ (Cucullianæ). By Sir G. F. Hampson, Bart. Pp. xiv, 532: 172 woodcuts. 8vo. 15s. Atlas of 12 coloured plates. 8vo. 10s.

Synonymic Catalogue of Orthoptera. Vol. II. Orthoptera Saltatoria. Pt. I. Achetidæ et Phasgonuridæ. By W. F. Kirby. Pp. viii, 562. 8vo. 15s.

Synonymic Catalogue of Homoptera. Part I. Cicadidæ. By W. L. Distant. Pp. 207. 8vo. 5s.

Catalogue of the Madreporarian Corals in the British Museum (Natural History). Vol. VI. The Family Poritidæ. II.—The Genus Porites. Part II.—Porites of the Atlantic and West Indies, with the European Fossil Forms. The Genus Goniopora, a supplement to Vol. IV. By H. M. Bernard. Pp. vi, 173: 17 plates. 4to. 20s.

Guide to the Gallery of Reptilia and Amphibia in the Department of Zoology. (By R. Lydekker, F.R.S.) Pp. iv, 75: 76 text and other figures. 8vo. 6d.

Books and Portraits illustrating the History of Plant Classification exhibited in the Department of Botany. (By A. B. Rendle, D.Sc.) Pp. 19: 4 plates. 8vo. 4d.

New editions have been issued of the General Guide (11th edition), price 3d.; Guide to the Mammals (other than Ungulates), price 6d.; Handbook of Instructions for Collectors (3rd edition), price 1s. 6d.; Instructions for Collecting

Mammals (3rd edition), Blood-sucking Flies (2nd edition), Spiders, Myriopods, &c. (2nd edition), and Fossils and Minerals (3rd edition), price 3*l.* each; and, for gratuitous distribution, of the list of Casts of Fossils reproduced from specimens in the Department of Geology.

The natural history publications of the Museum have been sent to many Free Libraries and other institutions in Great Britain and Ireland, to Colonial, Indian, and Foreign Museums, Libraries, and Scientific Societies, and to various individuals who have either assisted in the preparation of the volumes or otherwise benefited the Museum; and several additions have been made to the publications exchange list.

Having regard to the importance of a study of blood-sucking flies in connection with the dissemination of diseases due to micro-organisms, especially in tropical countries, the Trustees propose to continue the series of publications on these insects, a commencement of which was made by the issue of the Monographs of Mosquitoes and Tsetse Flies. The material available being insufficient for this purpose, the assistance of the Foreign Office, Colonial Office, and India Office has been obtained in the distribution of copies of a circular letter and pamphlet on the subject to the officials of those departments serving abroad, with a view to the formation of a collection of specimens to serve as the basis of the proposed monographs. Considerable collections of flies, &c. have already been received from all parts of the world, and are being worked out. In the meantime the Trustees have published the volume of Illustrations of British Blood-sucking Flies noticed above (p. 103).

The following works are also in preparation:—

Catalogue of the Library, Vol. III.

Report on the Natural History Collections of the "Discovery" Antarctic Expedition, 1901-4.

Catalogue of Bats, by Dr. Knud Andersen.

Hand-list of Birds, Vol. V., by Dr. R. B. Sharpe.

Catalogue of Birds' Eggs, Vol. V., by W. R. Ogilvie Grant.

Monograph of Mosquitoes, Vol. IV., by F. V. Theobald.

Monograph of British Lichens, Vol. II., by Miss A. Lorrain Smith.

Monograph of Mycetozoa, Second Edition, by A. Lister, F.R.S.

Catalogue of Fossil Rodentia, by C. I. Forsyth-Major.

Catalogue of Fossil Fishes, Vol. V., by Dr. A. Smith Woodward, F.R.S.

Catalogue of Cretaceous Bryozoa, Vol. II., by Dr. J. W. Gregory, F.R.S.

Catalogue of Trilobites, by Philip Lake.

A Guide to Great Game Animals.

A Guide to the Insect Gallery.

A Guide to British Seed-Plants and Ferns, by Dr. A. B. Rendle.

GENERAL LIBRARY.

The additions to the General Library during the past year have been:—

By purchase	-	-	-	458 volumes.
By donation	-	-	-	532 volumes, 8 maps, and 19 photographs.
By transfer from other Departments	-	-	-	45 volumes.

TOTAL - - 1,035 volumes, 8 maps, and
19 photographs.

All the volumes and maps have been catalogued, press-marked, and put in their places, while 1,019 volumes have been bound in 493, 121 have been repaired, and 4 maps have been mounted.

The extent of the collection on the 31st December was 35,842 volumes, 5,615 maps, and 334 photographs (not including those in the Owen Collection of Drawings, &c.).

The accessions to the Departmental Libraries have also been catalogued as they came in, and duplicate transcripts of the titles have been returned with the books.

Altogether 1,937 title-slips have been written, 82 re-written, and 2,370 revised.

There are now, on a rough estimate, 82,930 volumes (exclusive of continuations and minor separata) and 5,900 maps in the whole building.

The printing of the Catalogue remained in abeyance during the year, but preparations for its resumption are being made.

The works of travel and other non-serial publications were re-arranged and re-press-marked on the elastic system, in the course of which the press-marks were altered in more than 4,000 volumes and on nearly 6,000 title-slips.

Seven sets of sheets 137 to 140 of the Catalogue have been stamped with index-letters showing in which Department the various works are to be found, and copies have been distributed to each department.

The compilation of a List of Books, &c., published by or relating to the Natural History Departments of the British Museum, has been completed.

The following papers dealing with Works in the Museum have been published in various journals during 1906:—

“On the Dates of Publication of the Natural History portions of the ‘Encyclopédie Méthodique.’” By C. Davies Sherborn and B. B. Woodward. (Annals and Mag. Nat. Hist., Ser. VII., Vol. vii., pp. 577-82.)

The botanical part, with an additional note by Mr. Woodward, was reprinted as—

“The dates of Publication of Lamarck’s ‘Encyclopédie Méthodique’ (Botany).” (Journ. Bot., 1906, pp. 318–20.)

[Dates of Publication of the] “Atlas der Diatomaceen-Kunde. Herausgegeben von A. Schmidt.” (Journ. Bot., 1906, pp. 384–86.)

The number of visits paid to the Library during the year by students and others (irrespective of the Staff) was 1,357.

INDEX MUSEUM AND MORPHOLOGICAL COLLECTIONS.

During the past year a series of Crabs has been put on exhibition in the Entrance Hall, showing the extent to which the external appearance, particularly that of the secondary sexual organs, may become altered in consequence of the Crab being attacked by the parasite *Sacculina*. The series of specimens illustrating the general characters of Birds’ Eggs, the range in shape, colour, texture, and thickness of shell, and number in the clutch, has been removed from the wall-case in Bay 3 of the Hall to a more prominent and better lit position on the sides of the arch of Bay 5. The wall-case from which the series was removed has been fitted with a new back, obliquely placed so as to receive as much light as possible from the skylight of the Hall. In this case is now displayed the specimens of Birds’ wings and tails which are too large to exhibit in the table-case.

The series of Peas illustrating the Mendelian hypothesis of heredity has been placed in one of the new obliquely set cases in Bay 8, where it is brought more to the notice of the public and is better lit than in the table-case of Bay 6, where it was previously exhibited.

During the summer, shortly after the eruption of Vesuvius, there was placed temporarily in the Entrance Hall a series of specimens of lava and scoriæ thrown up by Vesuvius during the last and during the previous eruption, and also photographs and charts showing the change in the form of the volcano brought about by the eruption.

Two models have been added to the Malaria Case in the Hall—one of the proboscis of the Mosquito before piercing the skin, and another of the proboscis in the act of piercing.

Occupying a central position in the Hall—a position previously taken by the Tsetse Case, which has now been put in Bay 6—is a table-case in which are shown three series of Plaiçe illustrating the different sizes attained by the fish in different parts of the North Sea and English Channel in the same periods of time, the ages of the fish being determined by the number of rings on the otoliths, a series of which is also exhibited. Also a series of Pollack showing the rate of

growth, the age of the fish being determined by the number of rings on the scales, a series of which is exhibited to illustrate the method. Also a series of the young of the Eel, and a map to show the position of the breeding ground in the Atlantic Ocean, and the points reached by the eastwardly-migrating Elvers in different months of the year.

Much work has been done in the way of re-mounting and re-spiriting such of the anatomical preparations in the Entrance Hall as were in need of attention.

The models and casts of the Deep Sea Fishes temporarily exhibited in the Entrance Hall are now displayed in a horizontal table-case in the Fish Gallery, with an introductory label explaining the general characters in which deep sea fishes differ from other fishes.

ECONOMIC ZOOLOGY.

The work in connection with this section has had reference chiefly to insects. The questions submitted have mostly been from medical men abroad who are investigating the spread of disease by the agency of insects, and also from persons who ask for the names of pests, or for advice as to the best method of destroying them.

The following are some of the subjects of inquiry :—

- (1.) "The Nimetta or Nemetti Fly" of Dongola, sent from Khartoum for identification, with the note that "Besides biting, the flies are an intolerable nuisance through getting into the nose and eyes, causing all work to be suspended." The species proved to be *Simulium griseicollis*.
- (2.) Inquiry whether *Glossina palpalis*, one of the Tsetse Flies, occurs in S. Africa, and whether any other species of *Glossina* has been shown to carry *Trypanosoma gambiense*. And from another correspondent, whether *Glossina palpalis* is limited by altitude and always lives in close proximity to large rivers and lakes. *G. palpalis* does not occur in S. Africa, and even *G. morsitans* is not found south of St. Lucia Lake. At time of writing no species of *Glossina* other than *G. palpalis* had yet been proved to carry *Trypanosoma gambiense*, but since there is reason to believe that several species of *Glossina* besides *morsitans* can carry *Trypanosoma brucei*, it is quite possible that *G. palpalis* is not the only species capable of conveying *T. gambiense*. All available evidence goes to show that *Glossina palpalis* is only found in close proximity to water (which may, however,

be quite a small stream), and it is unlikely that it is an exception to the rule that Tsetse Flies are not met with at altitudes above 3,000 or 4,000 feet.

- (3.) Fly sent from Mauritius as being found to contain *Trypanosomes*. Species proved to be *Stomoxys nigra*.
- (4.) Questions as to swarms of common House Fly and where they come from. They normally breed in horse dung.
- (5.) Inquiry from Egypt as to the name of small moth destructive to cotton bolls. Proved to be an undescribed species, since named *Stagmatophora gossypiella* by Lord Walsingham.
- (6.) Inquiry from the Seychelles for name of a beetle injuring cocoa-nut palms. *Melittomma insularis*.
- (7.) Inquiry for name of beetle injuring palm trees in Uganda. *Rhynchophorus phœnicis*.
- (8.) Inquiry for name of caterpillars eating Lily of the Valley. One of the Ghost moths, *Hepialus*.
- (9.) Inquiry for name of small beetle injuring oranges in New Zealand. *Cylas turcipennis*.
- (10.) Inquiry from Merioneth respecting grubs very injurious to pasture. *Phyllopertha horticola*.
- (11.) Inquiry from Ceylon as to beetle injurious to Para rubber plants. *Xylopertha nicobarica*.

The following are some of the additions made to the series exhibited in the North Hall:—

- (1.) Egyptian Cotton Worm. *Prodenia littoralis*.
- (2.) Small Cotton Worm. *Caradrina exigua*.
- (3.) Egyptian Cotton Stainer. *Oxycarenus hyalinipennis*.
- (4.) Lac insects and their products.
- (5.) White wax insects.
- (6.) Ash saplings injured by rabbits.
- (7.) Human thread worms.
- (8.) Caterpillars of Buff-tip moth.
- (9.) Scotch fir damaged by *Tortrix*.
- (10.) Currant-root louse. *Schizoneura fodiens*.

E. Ray Lankester,

British Museum (Natural History), Director.
23 February 1907.

DEPARTMENT OF ZOOLOGY.

I.—*Arrangement and Conservation.*

Mammalia.—A heavy piece of work during the year has been the numbering of the exhibited specimens—a task which is still uncompleted, so far as the skulls and horns in the lower gallery and corridors are concerned.

In the upper gallery no noticeable change or alteration has been made, work having been in the main confined to the ordinary measures of conservation, labelling, &c. Two of the wall-cases, namely, those on each side of the entrance, have, however, been painted green.

As regards the lower gallery and corridor, it was found during the summer to be unsafe to continue to exhibit heads of Deer in the east corridor unprotected by glass, owing to the injuries resulting from moth. It was accordingly arranged to alter two of the Deer cases on the north side of the lower gallery in such a manner that accommodation could be found for the specimens in the corridor. This was accomplished by removing the partitions to the height of the main door, and shifting the position of the partitions above that level. The cases were then painted green (in place of white). A similar treatment has been accorded to one of the adjacent Antelope cases, with the result that not only has the general appearance of the cases and their contained specimens been greatly improved, but a considerable amount of valuable space has been gained for exhibition purposes.

Artificial ground work has been added to two deer-cases and one of the Gazelle-cases, with highly satisfactory results.

A large number of the labels in the lower gallery and corridors have been re-printed or re-written, in order either to bring them up to the present level of zoology or to render them more easily legible.

Among the presentations included in the exhibition series, the following may be specially mentioned:—A Lion, a Chita, a black-backed Jackal, an Oribi Antelope, and a Livingstone's Antelope, presented by Allan Cameron, Esq.; a Spanish Lynx, presented by B. F. Buck, Esq.; the type specimen of the Ituri Black Honey-Badger or Ratel, presented by Major P. H. G. Powell Cotton; an Alaskan Elk, presented by the Hon. Walter Rothschild; Head of an American Elk, presented by Frank Hutt, Esq.; Head of a Cassiar Caribou, presented by G. M. Norrie, Esq.; a Cassiar and a Newfoundland Caribou, presented by F. C. Selous, Esq.; a Black-tailed Deer, presented by W. R. Thompson, Esq.; a Liu Kiu Sika Deer, presented by His Grace the Duke of Bedford, K.G.; Head of a South American Marsh-deer, presented by A. F. Vans Agnew, Esq.; a Situtunga Antelope, presented by Capt. J. Harington; the type head of Vaughan's Kob

Antelope and a head of the Reed-buck, presented by Capt. P. E. Vaughan; the type head of Patterson's Eland, presented by Lt.-Col. J. H. Patterson; a Chamois, presented by St George Littledale, Esq.; Skull and cast of horn of African Black Rhinoceros (abnormal), presented by Frank Baden Powell, Esq.

The purchased specimens added to the series during the year are not numerous. Foremost is the male African Elephant, from South Nyasaland, placed in the Entrance Hall. In the anthropological series reference may be made to a plaster cast of the bust of a Pigmy from the Ituri Forest, modelled by W. Goscombe John, Esq. The purchases also include an Indian wild Boar and a West African River-Hog.

No re-arrangements or additions of specimens have been made in the Whale Room during the year.

In the British Saloon the mounting of special groups of British Mammals has been largely advanced during the year, and is now approaching completion. Several new cases have been provided. The groups newly mounted include the Bats, which have been placed on and around a hollow tree-stem, the Rats and Mice (among which special attention may be directed to the Harvest-mice and Shrew-mice), and the Marten-cats.

The donations include a Fair Isle long-tailed Field-mouse, presented by N. B. Kinnear, Esq.; a Harvest-mouse, presented by the Hon. Charles N. Rothschild; and a Natterer's Bat, presented by Heatley Noble, Esq. A Marten-cat was purchased.

DOMESTICATED ANIMALS:—Beyond referring to the normal duties of curatorship, and the addition of new descriptive labels, &c., there is nothing demanding special notice in regard to the *technique* of this section.

The presentations to this series include the following:—Skull and Limb-bones of the Thoroughbred Stallion "Royal Hampton," presented by Mrs. Ballard; Head and Skull of Shire Mare "Starlight," presented by Mrs. Crisp; a Banting Ox from Bali, presented by C. B. Kloss, Esq.; Heads of the Short-horn Bulls "Tregunter" and "Knight of the Shire," presented by the Shorthorn Society; a Merino and a Fat-tailed Sheep, presented by the Director of Agriculture, Cape Colony; two Skulls of the Corsican Sheep (?), presented by Dr. C. J. Forsyth-Major; Horns of Azores Goats, presented by Major Chaver; Head of Chartley Cow, presented by His Grace the Duke of Bedford, K.G.; skeleton of a Tibet Dog, presented by the Zoological Society; a Harrier, presented by J. S. Gibbons, Esq.; a Borzoi, presented by G. Pauling, Esq.; a Black-and-tan King Charles Spaniel, "Bend-Or," presented by Mrs. J. Reed; Ruby King Charles Spaniel, presented by Mrs. Kate Stephens; a Pekinese Dog, "Ah Cam," presented by T Douglas Murray, Esq.; a Blenheim Spaniel, presented by Mr. E. Longtone; the Head of a Bull-Terrier, presented by

Rowland Ward, Esq.; the celebrated Chinchilla Persian Cat, "The Silver Lambkin," presented by Mrs. L. B. Balding; sketch of the Head of a Unicorn Tibetan Sheep, by Miss Nellie Hadden; three hybrid Pheasants, presented respectively by the Hon. Florence Amherst, A. E. Scott, Esq., and Rowland Ward, Esq.; two Penguin Ducks from Java, presented by Dr. M. Treub.

Albinos and semi-albinos include a Dormouse, presented by H. J. Bailey, Esq.; a Marten and a Swallow, the gift of W. Radcliffe Saunders, Esq.; a Wood-Pigeon, presented by Sir Arthur Clay; and a Blackbird, given by W. Reid, Esq.

In the study series the work of labelling, registering, and incorporating the additions has been proceeded with. Many old skins have been re-made by the taxidermist in accordance with modern methods, and over three thousand skulls have been cleaned by the articulator, labelled and put away.

Three new deal store cabinets have been added with drawers deep enough to receive animals the size of a fox.

Much valuable assistance has been given in the department by voluntary helpers who have described new forms as they have been acquired, and have assisted in labelling and incorporating the new arrivals. The following gentlemen should be specially mentioned:—Dr. Forsyth-Major, Mr. R. C. Wroughton, Mr. J. L. Bonhote, Mr. Harold Schwann, and Major G. E. H. Barrett-Hamilton.

By the assistance of a private donor the services of Dr. Knud Andersen have been continued in working out and re-labelling the collection of Chiroptera in preparation for his forthcoming work on the new edition of the Catalogue.

Aves.—In the Bird Gallery continued progress has been made in the substitution of well-mounted specimens in place of old ones which had become bleached and discoloured. During the past year a number of skeletons and birds in spirit have been added to the collection. A considerable number of specimens belonging to the old series have been examined and carefully determined, and the skeletons of the following families have been re-arranged and catalogued:—*Pittidæ*, *Tyrannidæ*, *Hirundinidæ*, *Muscicapidæ*, *Laniidæ*, *Prionopidæ*, *Malaconotidæ*, *Gymnorhinidæ*, *Artamidæ*.

Reptilia and *Batrachia*.—False backs have been put in the wall-cases in the Reptile Gallery, containing the Ichthyosaurs and Plesiosaurs, thereby enabling the specimens to be brought nearer to the front, so that they may be seen to greater advantage.

The most striking addition to the gallery is the model of the Iguanodon skeleton, removed from the Geological Department; for this a new stand was prepared.

Various details and improvements in the arrangement and description of the specimens have been carried out. Among

these, reference may be made to the display of a series of skulls of Crocodilians to illustrate the passage from the long and slender type characteristic of the Gharial to the short and broad form distinctive of Alligators. The process of weeding out undesirable specimens has been still further carried out, and progress has also been made in the matter of painting specimens.

A number of coloured illustrations of reptiles (chiefly the gift of Mrs. John Anderson) have been placed either in the cases or in separate frames.

The more important specimens presented for exhibition purposes during the year are the following, viz.:—A green Turtle, presented by T. K. Bellis, Esq.; a South African Tortoise (*Testudo tentoria*), to illustrate a new method of mounting, presented by Dr. J. E. Duerden; a Southern Anaconda, presented by the Hon. Walter Rothschild; a young Gaboon Puff-Adder and a skull of an adult of the same species, presented by Rowland Ward, Esq.

The new cases in the spirit building have been completed and the Batrachian collection has been arranged in them.

Pisces.—During the year 63 specimens of fishes have been restored and coloured according to published coloured figures and descriptions, in continuation of the work referred to in the last annual report. A series of 16 British salmonoid fishes has been placed on exhibition in a special table-case. Based upon the detailed descriptions and drawings published by palæontologists and upon actual fossils in the Geological Department of the Museum, restored models have been constructed of the following extinct fishes—Coccosteus, Holoptychius, Eusthenopteron, Megalichthys (head only), Osteolepis, Undina, Cheirodus, Chondrosteus, Hypsocormus, Eugnathus, and Leptolepis.

The south half of the Fish Gallery has been re-opened to the public, and the north half, where re-arrangement is still in progress, has been partitioned off. Of notable additions to the Gallery may be mentioned a large *Raia marginata*, a large Electric Ray, and a large Angler-fish.

The card-catalogue of specimens selected for exhibition—each card giving the British Museum register number, locality, and history of the specimen, and the references to the figures and descriptions from which it was coloured—has been increased by 226 entries.

The determination and arrangement of the collection of Fishes from the Nile has been completed. The American Fishes of the family Cichlidæ have been re-arranged in accordance with a recent revision. The new cases in the spirit building have now been completed, and the Batrachian collection has been removed to them; this has made possible the expansion and re-arrangement of part of the Fish collection, with which considerable progress has been made.

Mollusca.—The working out of the important collection of deep-sea Mollusca, obtained by H.M. Indian Survey Steamer "Investigator," commenced during the year 1905, has been completed, and the report published. A manuscript list of the species of Polyplacophora has also been prepared. A large collection of shells made by the late Colonel Surgeon Archer at Singapore and other localities has been examined, and a selection made from it. The important collection of Indian land and fresh-water shells, bequeathed by the late Dr. W. T. Blanford, has been unpacked and partly examined. Numerous species of land shells forming part of the exhibited series have been remounted on fresh tablets and furnished with printed labels. The collection contained in spirit has been attended to, and fresh spirit supplied where necessary.

Arachnida and *Myriopoda*.—The spirit collection of *Arachnomorphæ* and of *Myriopoda* has undergone rearrangement, and part of the unnamed material has been sorted into families. The Scorpions and Pedipalpi have been worked out. Many Ticks received were sent before registration to Professor Neumann for determination, and a report, based on these examinations, will appear shortly. Herr With has continued his work on the *Chelonethi* belonging to the Museum, and an additional report dealing with the South American forms is now in course of publication.

Insecta.—The task of transferring the portion of the Fry Collection of Coleoptera contained in cabinets was finished in the spring, and the cabinets returned to the executors. The greater part of the specimens so transferred, including the whole of the Lamellicornia and Longicornia, is now incorporated in the General Collection.

A second portion of the Sharp Collection of Coleoptera has been acquired, comprising the Geodephaga, Clavicornia, Palpicornia, Heteromera, &c., about 50,000 specimens in all. The Central American specimens of water-beetles and certain Clavicorn families, including a large number of types, have been labelled and incorporated in the Central American Collection.

Some further progress has been made with the incorporation of the Janson Collection of *Elateridæ*. The undetermined American *Cleridæ* have been worked out by Herr Schenkling, of the German Entomological National Museum, and the Oriental specimens of the family have been sent to him for the same purpose. All the Museum representatives of the genera *Ichthyurus* and *Sciobius* have been determined or described by Dr. R. Gestro and Mr. Guy Marshall, respectively, and have since been completely re-arranged.

In connection with the preparation of the Second Volume of the Catalogue of Orthoptera the later groups of *Phasgonuridæ* have been re-arranged or revised in accordance with it.

That volume, containing the families *Achetidæ* and *Phasgonuridæ*, has been published and the manuscript of the Third Volume, dealing with the *Locustidæ*, is in course of revision.

A synonymic catalogue of the Homopterous family *Cicadidæ* has been published, and the revision and re-arrangement of the collection of *Fulgoridæ* have been continued.

A large number of additions to the collection of British Diptera, presented by Lieut.-Col. Yerbury, have been determined and incorporated, and the blood-sucking species of the genus *Ceratopogon* in the collection have been worked out.

The order of the families in the General Collection of Diptera has, so far as possible, been brought up to date.

The family *Simulidæ* has been worked out, and the new species in the collection have been described, by Mons. E. Roubaud, of Paris.

The family *Alyphidæ* has been revised and arranged, and the species belonging to the genus *Stomoxys* (family *Muscidæ*) have been provisionally determined.

A considerable number of small collections of blood-sucking Diptera from various parts of the world have been provisionally determined, reported upon, and incorporated.

Miss G. Ricardo has continued her determination of the *Tabanidæ*.

The work of re-setting and re-constituting the collection of British Lepidoptera has been completed.

The collection of *Ithomianæ* and *Heliconinæ*, with the exception of the Hewitson specimens, have been transferred and partially re-arranged in the new cabinets, and the greater part of the Nymphaline genera of the *Cethosia*, *Apatura*, *Euthalia*, and *Siderone* groups have also been transferred and re-arranged. The specimens belonging to the *Anæa* group were determined by Mr. H. Druce. The remainder of the Hewitson *Pierinæ* have been incorporated with the General Collection.

Mr. H. J. Elwes has concluded the arrangement of the Palæartic *Lycænidæ* and commenced that of the *Hesperiidæ*.

The volume of the Catalogue of Moths containing the Noctuid sub-family *Cucullianæ* has been finished and revised for press, and considerable progress has been made with that containing the *Acronyctinæ*.

The Noctuid sub-families *Catocalinæ*, *Mominae*, and *Plusianæ* and part of *Noctuinae* have been re-arranged, as well as parts of the sub-families *Boarmianae* and *Pyraustinae*, and the Tineid genus *Imma*.

The Moths collected by Mr. Meade-Waldo during Lord Crawford's voyage, the collection made by the Ruwenzori Expedition and various smaller collections have been worked out, and nearly all accessions have been incorporated with the General Collection.

In the Hymenoptera the family *Mutillidæ* has been expanded and completely re-arranged.

Crustacea.—Progress has been made in arranging and labelling the exhibited series of Crustacea, and a large number of additional specimens have been prepared and tinted in natural colours. The systematic series of Anomura and Macrura are on the point of completion. The entire spirit collection has been overhauled, the bottles refilled where necessary, and generic labels placed on the shelves to facilitate reference. A special collection presented by Mr. Geoffrey Smith, illustrating the changes produced in certain Crabs by the presence of parasites, has been mounted and arranged as a temporary exhibit in one of the bays of the central hall. Important exchanges have been carried out during the year with the Museums of Calcutta, Paris, Washington, and Pittsburgh. The undetermined material of terrestrial Isopoda has been sent for study to Herr G. Budde-Lund of Copenhagen, and a number of African Phyllopora have been sent for the same purpose to Dr. E. Wolf, of Frankfurt a/M. The Macrurous Crustacea of the Third Tanganyika Expedition have been studied and reported on, and the first part of a report on Cumacea received from the Copenhagen Museum has been prepared for publication.

Echinoderma.*—A fine example of *Centrostephanus rogersi* has been added to the exhibited series. The MSS. Catalogue of the Crinoidea has been brought up to date. All the Echinoderma obtained during the year have been identified and incorporated.

Vermes.*—Dr. Ashworth has made a preliminary examination of the Polychæta before commencing a catalogue. Dr. Fowler has determined various Chætognaths; Dr. Meixner some Planarians; Dr. Linstow the Nematodes submitted to him; and Mr. F. F. Laidlaw some Turbellarians. Thanks to the assistance of these specialists, all the Worms obtained during the year have been determined.

Anthozoa.*—The sixth volume of the Catalogue of Corals has been published, this completes the description of the forms belonging to the suborder Entocnemaria.

A fine specimen of *Gorgonella verriculata* has been mounted for exhibition in the Coral Gallery. The specimens of *Porites* are now arranged in the cupboards of the Coral-room in the order of the published Catalogue.

Advantage was taken of the visit of Mr. Simpson to re-spirit many of the specimens of Alcyonaria which he came to study.

Tunicata, Brachiopoda, Polyzoa, Hydrozoa, Porifera, and Protozoa.—Most of the time that could be spared by the assistant in charge of these groups from the usual official routine

* The time of the assistant in charge of these groups has been largely devoted to the "Discovery" collections.

work of attending to visitors, correspondence, conservation and arrangement of specimens has been devoted to the working out and description of the Hadromerine and Halichondrine Sponges collected by the "Discovery" in the Antarctic; the report upon the Hadromerina being illustrated by five quarto plates, and the Halichondrina by ten quarto plates.

The Sponges collected by the Third Tanganyika Expedition have been described and figured.

A second edition of the Guide to the Coral Gallery has been prepared, giving a more full account of the Sporozoa (including the blood parasites of Malaria and Sleeping Sickness).

In the course of working out the "Discovery" Sponges, a large number of preparations of other Sponges have been made; these will form part of a general collection of preparations of the whole collection of Sponges, which will be of great use to students of this group.

II.—*Duplicates and Exchanges.*

Duplicates have been presented to the Infants' School, Sandy, Bedfordshire; the Municipal Art Classes of Leominster, Ludlow, and Letchworth; the Chadwick Museum, Bolton; Rev. Canon Horsley; the Technical Education Board of the London County Council; the Royal College of Surgeons; the Derby and Edinburgh Museums.

Exchanges have been effected with the Museums of Paris, Berlin, Dresden, Basle, Genoa, Singapore; the Indian Museum, Calcutta; the Selangor State Museum; the Field Museum of Natural History, Chicago; the Hungarian National Museum; and with M. Antoine Grouvelle, Dr. Norman Joy, Dr. M. Cameron, Messrs. Philip de la Garde, A. J. Chitty, H. K. Donisthorpe, H. Munt, H. B. Preston, O. E. Janson, Major R. Sparrow, Prof. F. Guitel, Dr. W. Wolterstorff, Prof. Bouvier, Dr. A. E. Ortman, and Prof. Joubin.

III.—*Departmental Library.*

One hundred and eleven separate works in 163 volumes, new to the Library, and 1,187 parts of periodicals and works in progress have been acquired during the year by purchase, presentation, and exchange. Two hundred and ninety-three books have been bound. The Library now contains 11,021 separate works in 17,433 volumes.

The work of collating, press-marking, and entering in the Catalogue of all acquisitions has been performed as usual.

IV.—*Publications.*

In addition to the Catalogues already referred to, published by the Trustees, the following reports and descriptive papers have been prepared in connection with various parts of the

collection, especially recent acquisitions, and have been published in scientific journals:—

Mammalia.—“On the Generic Arrangement of the Australian Rats hitherto referred to *Conilurus*, with Remarks on the Structure and Evolution of their Molar Cusps”; “A new Aquatic Genus of Muridæ discovered by Consul L. Soderström in Ecuador”; “New Asiatic Mammals of the Genera *Kerivoula*, *Eliomys*, and *Lepus*”; “A new Genus of Free tail Bat from N.E. Africa”; “A Third Genus of the *Ichthyomys* Group”; “New African Mammals of the Genera *Cercopithecus*, *Scotophilus*, *Miniopterus*, *Crocidura*, *Georychus*, and *Heliophobius*”; “Three new Palæarctic Mammals”; “New Mammals from the Australian Region”; “Descriptions of new Mammals from Ruwenzori”; “Two new Genera of small Mammals discovered by Mrs. Holms-Tarn in British East Africa”; “Notes on South-American Rodents”; “On a new Pigmy Antelope obtained by Col. J. J. Harrison in the Semliki Forest”; “New Insectivores and Voles collected by Mr. A. Robert near Trebizond”; “On some African Bats and Rodents”; “New Mammals collected in North-east Africa by Mr. Zaphiro, and presented to the British Museum by W. N. McMillan, Esq.”; “On a Second Species of *Lenothrix* from the Liu Kiu Islands”; “A new Vole from Spain”; “On a new Forest-Pig from the Ja River, Cameroons”; “A new Species of Duiker from Nyasaland”; “On Mammals from Northern Australia, presented to the National Museum by Sir Wm. Ingram, Bart., and the Hon. John Forrest”; “On a new Form of Bear from the Shan States”; “On Mammals collected in South-west Australia for Mr. W. E. Balston”; “On a Collection of Mammals from Persia and Armenia, presented to the British Museum by Col. A. C. Bailward”; “The Duke of Bedford’s Zoological Exploration in Eastern Asia.—I. List of Mammals obtained by Mr. M. P. Anderson in Japan”; by O. Thomas.

“The Rudd Exploration of South Africa.—IV. List of Mammals obtained by Mr. Grant at Knysna”; “The Rudd Exploration of South Africa.—V. List of Mammals obtained by Mr. Grant in N.E. Transvaal”; by Oldfield Thomas and Harold Schwann.

“A List of the Mammals obtained by Messrs. R. B. Woosnam and R. E. Dent in Bechuanaland,” by Harold Schwann. “On the Mammals of Crete,” by Dorothea M. A. Bate. “On the Mouse-Hares of the genus *Ochotona*,” “On a new Race of *Sciurus lokrioides* from Burma”; “On a Collection of Mammals brought home by the Tibet Frontier Commission”; “The Mammalian Fauna of China.—Part I. *Murinae*”; “On Mammals from South Johore and Singapore, collected by Mr. C. B. Kloss”; by J. Lewis Bonhote. “On some Mammals collected by Mr. Robin Kemp in S. Nigeria”; “Notes on the genus *Tatera*, with descriptions of new species”; by R. C. Wroughton.

Aves.—"History of the Collections in the British Museum (Nat. Hist.). *Aves*," by R. Bowdler Sharpe. Pp. 79-515.

Owing to the time occupied in the preparation of the above volume, the publication of the 5th volume of the "Handlist of Birds" and the 5th volume of the "Catalogue of Eggs" has had to be postponed till the present year (1907).

"On a Collection of Birds made by Mr. Geoffrey Archer during a Journey to the Ruwenzori Range"; by F. J. Jackson, with notes by R. Bowdler Sharpe.

"On the Birds collected by Mr. Walter Goodfellow on the Volcano of Apo and in its vicinity, in South-east Mindanao, Philippine Islands"; "On a new Tree-Partridge from the Chin Hills"; "On the Eclipse Plumage of Ducks"; "On a new species of Nut-hatch from Corea"; "On two new species from South-east Mindanao"; "On new species from Ruwenzori"; "On new species from Central Formosa"; "On a new species of the genus *Proparus* from the Manipur Hills"; by W. R. Ogilvie Grant.

Reptiles and Batrachians.—"Report on the Batrachians collected by the late L. Fea in West Africa"; "Report on the Reptiles collected by the late L. Fea in West Africa"; "Additions to the Herpetology of British East Africa"; "Descriptions of new Batrachians from South Cameroon"; "Descriptions of two new Lizards from New Zealand"; "Descriptions of new Reptiles from Yunnan"; "Description of a new Tree Viper from Mount Ruwenzori"; "Description of a new Chameleon of the genus *Rhampholeon* from Mashonaland"; "Description of a new Lizard and a new Snake from Australia"; "Description of a new Snake of the genus *Glauconia* from Somaliland"; "On a new Chameleon from Mount Ruwenzori"; "Descriptions of two new Indian Frogs," by G. A. Boulenger.

Fishes.—"Fourth Contribution to the Ichthyology of Lake Tanganyika"; "On some Fishes from the Kwango River"; "Descriptions of new Fishes discovered by Mr. Degen in Lake Victoria"; "On a Collection of Fishes from Gallaland"; "Description of a new *Clarias* from Uganda"; "Description of a new Mormyrid Fish from South Cameroon"; "On some West African Species of *Barbus*"; "Description of a new *Barbus* from Uganda"; "On a second species of *Mochocus*"; "Description of a new Silurid Fish of the genus *Doumea* from Angola"; "On the presence of two species of *Anabas* in the White Nile"; by G. A. Boulenger.

"*Biologia Centrali-Americana, Pisces* (part)"; "A Classification of the Selachian Fishes"; "On the Fresh-water Fishes of the Island of Trinidad"; "A Revision of the Fishes of the family Galaxiidae"; "Descriptions of new or little known Fishes from the Coast of Natal"; "Two new Cyprinoid Fishes from the Helmund Basin"; "The Vendaces of Lochmaben and of Derwentwater and Bassenthwaite Lakes,

Coregonus vandesius and *Coregonus gracilior*"; "Descriptions of two new Cyprinid Fishes from Yunnan Fu, collected by Mr. John Graham"; "A Revision of the South-American Cichlid Genera *Retroculus*, *Geophagus*, *Heterogramma*, and *Biotocus*"; "Description of a new Cyprinodont Fish of the genus *Jenynsia* from Argentina"; "A Revision of the South-American Cichlid Genera *Cichla*, *Chaetobranchus*, and *Chaetobranchopsis*, with notes on the Genera of American Cichlidæ"; "Descriptions of five new Fishes from Sarawak, collected by Dr. C. Hose"; "Notes on some Loricariid Fishes, with descriptions of two new species"; "A Collection of Fishes from the King River, Western Australia"; "Descriptions of some new Sharks in the British Museum Collection," by C. Tate Regan.

Mollusca.—"On South African Marine Mollusca, with descriptions of new species"; "Natural History notes from R.I.M.S. 'Investigator,' Series III., No. 10. On Mollusca from the Bay of Bengal and the Arabian Sea"; "Zoological results of the Third Tanganyika Expedition, conducted by Dr. W. A. Cunningham, 1904-5. Report on the Mollusca"; "Note on the sub-genus *Malluvium*, Melvill"; "Notes on some species of *Mitridæ*, with the description of *M. brettinghami*, n. sp.," by E. A. Smith.

Insecta.—"On three remarkable new Melolonthid Coleoptera from Sumatra and Borneo in the British Museum"; "On Lamellicorn Coleoptera from Portuguese West Africa, with descriptions of new species," by G. J. Arrow.

"On some Longicorn Coleoptera from Selangor and Perak," by C. J. Gahan.

"On some Blood-sucking and other Diptera from the Anglo-Egyptian Sudan, collected during the year 1905, with descriptions of new species"; "An Insect Enemy of the Disseminator of Human Tick-Fever in Angola"; "Horse-flies (*Tabanidæ*) and Disease"; "Synonymic Notes on *Musca marginalis*, Wied., and the genus *Pycnosoma*, Br. and von Berg," by E. E. Austen.

"The Moths of the Tibet Expedition"; "Moths of India, Supplementary Papers"; "New *Thyrididæ* and *Pyralidæ* in the British Museum," by G. F. Hampson.

"New Species of *Braconidæ* and *Chalcididæ* from North Queensland, bred by F. P. Dodd," by Col. Charles T. Bingham.

"Rhynchotal Notes, xxxviii. to xl.," "Descriptions of New Species of Australian *Cicadidæ*"; "Descriptions of New Species of Fijian *Cicadidæ*"; "Some undescribed *Cicadidæ*"; "Undescribed Genera and Species of South African Rhynchota," by W. L. Distant.

Crustacea.—"Notes on some genera of the Crustacean family Hippolytidæ"; "The Cumacea of the Puritan Expedition"; "Report on the Macrurous Crustacea of the third Tanganyika Expedition"; "Note on a Lobster with symmetrical claws," by W. T. Calman.

The following paper, among others, is largely based on material in the Museum Collection:—"On the occurrence of the genus *Acanthephyra* off the West Coast of Ireland," by Stanley W. Kemp, B.A.

Arachnida.—The following papers are largely based on material belonging to the Museum:—

"Notes sur les Ixodidés—iv. ; Note sur *Spelæorhynchus præcursor*, Nn.," by Professor Neumann.

"The Danish Expedition to Siam, 1899–1900, III., *Chelonethi*," by Herr C. J. With.

Prototrachata.—Professor Bouvier has published a second portion of his monograph on this group (*see* Annual Report, 1906, page 119).

Vermes.—The following papers are based on specimens in the collection:—

"On the Worms of the Family Gordiidæ from Corea," by Dr. von Linstow.

"Zwei neue Landplanarien (*Geoplana rosenbergi*, n. sp., und *Bipalium notunense*, n. sp.)," by Adolf Meixner.

Porifera.—"Zoological Results of the Third Tanganyika Expedition conducted by Dr. W. A. Cunningham, 1904–1905. Report on the Porifera, with Notes on Species from the Nile and Zambesi," by R. Kirkpatrick.

V.—Acquisitions.

—		Donations.	Purchases.	Exchanges.	Total.
Mammalia	{ Wild - - - - -	3,059	455	5	3,519
	{ Domesticated - - - - -	14	3	—	
Aves	{ Ruwenzori Collection - - - - -	1,528	—	—	9,659
	{ Gerrit Miller Collection - - - - -	—	4,000	—	
	{ Other sources - - - - -	2,612	1,516	3	
Reptilia	- - - - -	239	599	185	1,023
Batrachia	- - - - -	125	344	141	610
Pisces	- - - - -	945	785	39	1,769
Mollusca	{ Blanford Collection - - - - -	2,000	—	—	4,436
	{ Other sources - - - - -	1,800	558	78	
Arachnida	- - - - -	811	2,598	2	3,411
Myriopoda	- - - - -	111	258	—	369
Insecta	{ Sharp Collection - - - - -	—	50,000	—	87,807
	{ Other sources - - - - -	36,434	631	742	
Crustacea	- - - - -	1,027	132	164	1,323
Echinoderma	- - - - -	18	—	—	18
Vermes	- - - - -	74	1	—	75
Brachiopoda	- - - - -	6	—	—	6
Anthozoa	- - - - -	534	—	—	534
Polyzoa	- - - - -	25	—	—	25
Hydrozoa	- - - - -	4	—	—	4
Porifera	- - - - -	168	2	183	353
Protozoa	- - - - -	15	—	—	15
Totals - - - - -		51,549	61,882	1,542	114,973

Mammalia.—The accessions number three thousand five hundred and thirty-six, the highest number previously recorded having been 2,623 in 1903.

Of these the following are the most noteworthy :—

Thirty-five mammals from Biarritz ; presented by J. F. Davison, Esq.

A mounted Chamois (*Rupicapra tragus*) from the Carpathians ; presented by St. George Littledale, Esq.

Eight mammals from the Shetland and Orkney Islands ; presented by N. B. Kinnear, Esq.

Thirty-seven bats from various localities, including four typical specimens ; presented by the Marquis G. Doria.

Fifteen mammals collected by the Seistan Boundary Commission ; presented by the Calcutta Museum.

Five hundred and sixty-five mammals from Japan and Korea, collected by Mr. M. P. Anderson ; presented by the Duke of Bedford, K.G.

Twenty-three mammals from Burma ; presented by Capt. H. H. Harington.

Sixteen mammals from Burma, including the type of *Sciurus mearsi* ; presented by Capt. S. A. Mears.

Fifty one mammals from Ladak ; presented by Col. A. E. Ward.

Forty-four mammals, including the types of *Calops robinsoni*, *Sciurus tahan*, and *Funambulus rufigenis*, collected during the Expedition to Pahang by H. C. Robinson, Esq. ; purchased.

Nine mammals from Bangkok ; presented by T. H. Lyle Esq.

Twenty-one mammals from British New Guinea ; presented by C. A. W. Monckton, Esq.

Fifty-two mammals from Japan ; presented by R. Gordon-Smith, Esq.

Forty-three mammals from Annam, collected by Dr. J. Vassal ; purchased.

Sixteen mammals from Foochow and Chinkiang, Lower Yangtse ; presented by J. D. La Touche, Esq.

Five mammals from Fort Hall, British East Africa ; presented by S. L. Hinde, Esq.

Twenty-nine mammals from Somaliland, including the type of *Mus brockmani* ; presented by R. E. Drake-Brockman, Esq.

Four hundred and seventeen mammals collected in the Transvaal and Portuguese S.E. Africa, by Mr. C. H. B. Grant, including the types of several new species ; presented by C. D. Rudd, Esq.

Six mammals from N.E. Transvaal ; presented by Major J. Stevenson Hamilton.

A mounted pig (*Potamochoærus porcus*) from the Cameroons; presented by Rowland Ward, Esq.

Five mammals from the Ituri Forest, East Congo Free State, including the types of *Colobus palliatus cottoni*, *Mellivora cottoni*, and *Dorcatherium aquaticum cottoni*; presented by Major P. H. G. Powell-Cotton.

Thirty-two mammals from Zanzibar Island, including the type of *Sciurus palliatus lastii*; presented by J. T. Last, Esq.

One hundred and eighty-six mammals, including twenty types, collected during the expedition to Mount Ruwenzori; presented by the Ruwenzori Exploration Committee; and one hundred and thirty-four mammals collected during the same expedition; purchased.

Thirty-one mammals, including the types of *Surdisorex noræ* and *Mylomys cunninghami*, collected near Nyeri, British East Africa; presented by Mrs. Holms-Tarn.

Sixteen mammals from Suakin and the Sudan; presented by A. L. Butler, Esq.

Fifteen mammals from S.E. Mashonaland; presented by C. F. M. Swynnerton, Esq.

Sixty-eight mammals collected at various localities in N.E. Africa by Mr. Zaphiro, including the types of *Platymops macmillani*, *Helogale macmillani*, *Ictonyx capensis shoæ*, *Tatera harringtoni*, *Otomys typus fortior*, *Arvicanthis rex*, and *Lophuromys zaphiri*; presented by W. N. McMillan, Esq.

A mounted male African elephant from near Fort Manning, Northern Rhodesia; purchased.

Seven mammals from Argentina; presented by Turner Henderson, Esq.

Nineteen mammals from Bahia and the Comoro Islands, collected during the voyage of the Valhalla; presented by the Earl of Crawford.

One hundred and twenty-eight mammals, including types of *Nyctinomus plicatus colonicus*, *Mus forresti*, *Phascogale mimulus*, *P. ingrami*, and *Sminthopsis stalkerii*, collected by Mr. W. Stalker at Alexandria, Northern Territory of S. Australia; presented by Sir Wm. Ingram, Bart., and the Hon. John Forrest.

Three hundred and eighty-four mammals from S.W. Australia, including the types of *Pipistrellus regulus*, *Scoteinus balstoni*, *Mus shortridgei*, *Dasyurus geoffroyi fortis*, and *Tachyglossus aculeatus ineptus*, and thirty-four specimens from Sharks Bay, North-West Australia, collected by Mr. G. C. Shortridge; presented by W. E. Balston, Esq.

Three hundred and sixty-one mammals from Trebizond, Asia Minor, including the types of *Talpa cæca levantis*, *Crocidura leucodon lasius*, *C. russula monacha*, *Microtus*

roberti, *M. majori* and *Evotomys ponticus*; ninety-three from the Pyrenees, and fifty-five from Switzerland, S. Italy, and Sicily, collected by Mr. A. Robert; also sixty-one mammals from British Guiana, collected by Mr. S. B. Warren; and twenty-three from Montevideo and La Plata, collected by the donor; presented by Oldfield Thomas, Esq.

Aves.—The total number of accessions was nine thousand six hundred and fifty-nine, the most noteworthy being the following:—

One hundred and nineteen specimens from Japan and Corea, collected by Mr. M. P. Anderson; presented by His Grace the Duke of Bedford, K.G.

Five hundred specimens collected by Mr. M. J. Nicoll during the voyage of the R.Y.S. "Valhalla"; presented by the Earl of Crawford, K.T., F.R.S.

Five hundred and twenty-six birds from Western Yunnan; collected and presented by Colonel G. Rippon.

One hundred and eight birds from Upper Burma; presented by Capt. H. H. Harington.

Three hundred and sixty-five birds from Western Australia, collected by Mr. Shortridge; presented by W. E. Balston, Esq.

One hundred and sixty-eight birds from Western Virginia; presented by H. T. Burls, Esq.

Seventy-one birds from Uganda; presented by Dr. Cuthbert Christy.

Two hundred and five specimens from Lower Nigeria, collected by Robin Kemp, Esq.; purchased.

Twenty-one specimens from the River Gambia; presented by Dr. E. N. Hopkinson.

Nineteen specimens from Sarawak; presented by R. Sheldford, Esq.

The type of a new Hill-Partridge, *Arboricola batemani*; presented by Eugene W. Oates, Esq.

A specimen of the Australian Cassowary (*Casuaris australis*), and ten Birds of Paradise (*Schlegelia calva*); presented by Sir William Ingram, Bart.

Three Prince of Wales' Pheasants (*Phasianus principalis*), from the Hari River; presented by Colonel P. Molesworth Sykes, H.B.M. Consul-General for Khorasan.

Nine types of new species from Equatorial Africa; presented by F. J. Jackson, Esq., C.B., C.M.G.

Two eggs of the Standard-winged Nightjar (*Macrodipteryx macrodipterus*); presented by J. H. J. Farquhar, Esq.

Seven specimens of birds, forty nests and eggs, from Setubal, Portugal; presented by Don Luiz Gonzaga do Nascimento.

Three hundred and ninety-four birds from Gunong Tahan, Malay Peninsula ; presented by the Selangor State Museum.

Twenty-seven birds from the River Niger ; presented by Churchill Bryant, Esq.

Four Wild Turkeys (*Meleagris gallopavo*), from Durango, Mexico ; presented by J. H. Fleming, Esq.

A valuable collection of North American birds formed by Mr. Gerrit Miller, and consisting of four thousand skins, including the Maynard collection of Bahama birds, with several types ; purchased.

Mr. C. D. Rudd has continued his donations of birds from South Africa and Mozambique, whence large series have been sent by Mr. Claude Grant, who is collecting for Mr. Rudd.

Ninety-one birds from the Solomon Islands, collected by A. S. Meek ; purchased.

Twenty-seven nests of birds from the Andaman Islands ; presented by B. B. Osmaston, Esq.

Fifteen birds, mostly Francolins, from British East Africa ; presented by Colonel W. H. Broun.

One thousand five hundred and twenty-eight specimens of birds from the Ruwenzori Range and adjacent parts of Equatorial Africa ; presented by the subscribers to the Ruwenzori Expedition.

One hundred and fifty birds from Somaliland, collected by Mr. G. W. Bury ; purchased.

Three hundred and thirty-one birds from Benguela, collected by Dr. W. J. Ansorge ; purchased.

Seventy-nine birds from Annam, collected by Dr. J. J. Vassal ; purchased.

Two hundred and sixty-two birds from the Tian Shan Mountains, collected by Mr. Kutzenko ; purchased.

One hundred and fifteen birds from Uganda, collected by Mr. E. Degen ; purchased.

Two hundred and twelve birds from Camaroons, collected by Mr. G. L. Bates ; purchased.

Reptilia.—The accessions number one thousand and twenty-three, two hundred and thirty-nine presented, five hundred and ninety-nine purchased, and one hundred and eighty-five received in exchange. The following are the more important :—

Eighty Reptiles from near Madrid ; purchased.

Thirty-three Reptiles from India, including co-types of *Gymnodactylus consobrinoides*, *Hemidactylus subtri-droides*, *Teratolepisscabriceps*, and *Japalura andersoniana* ; received from the Indian Museum, Calcutta.

The types of a new Tortoise (*Testudo travancorica*) from Travancore; received from the Trevandrum Museum.

Twenty-seven Reptiles from Selangor, including the types of three new species (*Draco cyanolæmus*, *Lygosoma cophias*, and *Gonyocephalus robinsonii*); received from the Selangor State Museum.

A rare Lizard (*Lanthanotus borneensis*), previously unrepresented in the Museum, from Sarawak; purchased.

Forty-seven Reptiles from the Loo Choo Islands; purchased.

Nine Reptiles from Yunnan; collected by Mr. J. Graham, including the types of a new Tortoise (*Cyclemys yunnanensis*); purchased.

Fourteen Reptiles from the Atlas of Morocco, collected by Herr Riggenbach; purchased.

Twenty-one Reptiles from Tunisia; presented by Monsieur Henri Gadeau de Kerville.

Twenty-five Reptiles from Cameroon, collected by Mr. G. L. Bates; purchased.

Eighty-one Reptiles from West Africa, collected by the late Signor L. Fea, including several types; received from the Genoa Museum.

Eighty Reptiles from Benguela, collected by Dr. W. J. Anson; purchased.

A rare Snake, new to the collection, *Boulengerina stormsi*, from Kasawa, on Lake Tanganyika, collected by Dr. W. A. Cunningham.

Nineteen Reptiles from Uganda, collected by Mr. E. Degen, including the types of two new species (*Leptodira degeni* and *Algiroides africanus*); purchased.

Twenty-six Reptiles from Mount Ruwenzori, collected by R. B. Woosnam, Esq., including the type of a new Snake (*Atheris woosnami*); presented by the subscribers to the Ruwenzori Expedition Fund.

Twenty Reptiles from Rhodesia and Portuguese East Africa, collected by S. A. Neave, Esq.; presented by the British South Africa Company.

The type of a new Chameleon (*Rhampoleon marshalli*), from the Chirinda Forest, Mashonaland; presented by G. A. K. Marshall, Esq.

The type of a new Tortoise (*Homopus boulengeri*), from Cape Colony; presented by Dr. J. E. Duerden.

A Lizard (*Xantusia riversiana*), from California; new to the collection; received from the Museum of Zoology, Cambridge.

One hundred and sixteen Reptiles from Mexico, collected by Dr. H. Gadow, including the types of four new species (*Anolis gadovii*, *A. liogaster*, *Sceloporus gadovia*, and *Leptodira guilleni*); purchased.

Thirty-three Lizards of the genus *Cnemidophorus* from Mexico; received from the Field Museum of Natural History, Chicago.

Ninety-six Lizards of the genus *Cnemidophorus* from Mexico, collected by Dr. H. Gadow; purchased. This and the series mentioned above formed the basis of Dr. Gadow's interesting study on the variation in this group.

Thirteen Reptiles from Argentina, collected by Herr Steinbach; purchased.

Thirty-one Reptiles from Northern Australia, collected by Mr. W. Stalker, including the types of a new Snake (*Denisonia forresti*) and a new Lizard (*Varanus ingrami*); presented by Sir William Ingram, Bart., and the Right Hon. John Forrest.

Ten Reptiles from Western Australia, collected by Mr. G. S. Shortridge; presented by W. E. Balston, Esq.

Batrachia.—The accessions number six hundred and ten, one hundred and twenty-five presented, three hundred and forty-four purchased, and one hundred and forty-one received in exchange. The more important are:—

Fifty-three Batrachians from near Madrid; purchased.

Ten Batrachians from India, including co-types of *Ixalus annandalii* and *Rhacophorus taeniatus*; received from the Indian Museum, Calcutta.

Twenty-three Batrachians from Yunnan, collected by Mr. J. Graham, including examples of the recently discovered *Bombinator maximus*; purchased.

Thirty-three Batrachians from Selangor, including the type of a new Frog (*Ixalus brevipes*); received from the Selangor State Museum.

Ninety-six Batrachians from West Africa, collected by the late Signor L. Fea, including several types; received from the Genoa Museum.

Ninety-five Batrachians from Cameroon, collected by Mr. G. L. Bates, including the types of five new species (*Rana goliath*, *Arthroleptis taeniatus*, *A. batesii*, *A. cornutus*, and *Rappia pleurotaenia*); purchased.

Forty-five Batrachians from Benguella, collected by Dr. W. J. Ansorge; purchased.

Forty-eight Batrachians from Uganda, collected by Mr. E. Degen, including the type of a new Toad (*Bufo vittatus*); purchased.

Twenty-six Batrachians from Uganda, including the types of a new Frog (*Hylambates cubito-albus*); presented by Dr. C. Christy.

One of the types of a Toad (*Nectophryne tornieri*) from German East Africa; received from the Basle Museum.

Eighteen Batrachians from Zululand and Natal; presented by Dr. E. Warren.

Forty-six Batrachians from Mexico, collected by Dr. H. Gadow; purchased.

Twenty-two Batrachians from Argentina, collected by Herr Steinbach; purchased.

Pisces.—The accessions number one thousand seven hundred and sixty-nine, nine hundred and forty-five presented, seven hundred and eighty-five purchased, and thirty-nine received in exchange. The more important are:—

A series of specimens illustrating the transition of the larval Eel (*Leptocephalus brevirostris*) into the Common Eel (*Anguilla vulgaris*); presented by Dr. C. G. J. Petersen.

Twelve skeletons of Selachians in spirit, prepared by Herr V. Fritsch; purchased.

Two Vendace (*Coregonus gracilior*), from Derwentwater and Bassenthwaite; presented by S. Venour, Esq.

A large Gwyniad (*Coregonus clupeioides*), from Bala Lake; presented by Sir Watkin Wynn, Bart.

A large stuffed Angler (*Lophius piscatorius*), from Norfolk; presented by H. Connop, Esq.

A large Chub (*Leuciscus cephalus*), from the Hampshire Avon; presented by E. J. Walker, Esq.

Eighteen Fishes from Lough Erne, including a Pollan (*Coregonus pollan*) and two hybrid Bream (*Abramis brama* × *Leuciscus erythrophthalmus*); presented by Major H. Trevelyan.

Two Pollan (*Coregonus pollan*), from Lough Ree; presented by E. W. L. Holt, Esq.

A ripe male Eel (*Anguilla vulgaris*), from Ireland; presented by Mr. James Howell.

Thirty-five Fishes of the genus *Lepidogaster*, from the coasts of France, including examples of two species new to the Museum; received from Prof. F. Guitel.

A rare Fish (*Zeus conchifer*) from the Atlantic; presented by Dr. Y. H. Mills.

A second specimen of *Zeus conchifer* from the Atlantic; presented by the Director of Harrod's Stores.

Two Angel Fishes (*Squatina aculeata*) from the Mediterranean; purchased.

One of the types of *Gobius alcocki*, from Bengal; received from the Indian Museum, Calcutta.

Nine Fishes, including examples of five species new to the collection, from Travancore; received from the Trevandrum Museum.

Forty Fishes from Sarawak, collected by Dr. C. Hose, including the types of two new species (*Cosmochilus falcifer* and *Liocassis hosii*); purchased.

Thirty Fishes from Algeria; presented by Lord Walsingham.

Seventy-three Fishes, from Cameroon, collected by Mr. G. L. Bates, including the type of a new species (*Marcusenius batesii*); purchased.

The type of a new Catfish (*Doumea angolensis*), from Benguella; presented by Dr. F. Creighton Wellman.

Four hundred and forty-eight Fishes from Lake Victoria, forming part of a very valuable collection made by Mr. E. Degen, and including the types of a large number of new species, as well as examples of several species previously described but unrepresented in the Museum; purchased.

The types of a new Barbel (*Barbus portali*), from near Mount Ruwenzori, collected by R. B. Woosnam, Esq.; presented by the subscribers to the Ruwenzori Expedition Fund.

Fourteen Fishes from British E. Africa; presented by S. L. Hinde, Esq.

Two hundred and ten Fishes from Lakes Tanganyika, Nyassa, Albert and Albert Edward, collected by J. E. S. Moore, Esq., including the types of several new species; presented by the Tanganyika Exploration Committee.

Two hundred and seventy-eight Fishes from Lake Tanganyika, collected by Dr. Cunningham, including the types of several new species; presented by the Tanganyika Exploration Committee.

Fourteen Fishes from Rhodesia and Portuguese E. Africa, collected by S. A. Neave, Esq., including the types of a new species (*Barilius neavii*); presented by the British S. Africa Co.

Two Trout from Lough Arrow, Ireland; presented by Mr. J. Gunning.

Ninety-seven Fishes from Zululand and Natal, including the types of six new species (*Squatina africana*, *Ophichthys unicolor*, *Apogon warreni*, *Pristipoma taeniophorum*, *Blennius punctifer*, and *Salarias kosiensis*); presented by Dr. E. Warren.

Twenty-five Fishes from Durban, Natal; presented by the Rev. N. Abraham.

Twelve Fishes from various localities, including a large Oar-fish (*Regalecus glesne*) from the Cape of Good Hope; presented by the Earl of Crawford.

The skeleton of a large Tarpon (*Megalops thrissoides*), from Florida; presented by C. B. C. Storey, Esq.

One hundred and sixty-three Fishes from Mexico, collected by Dr. H. Gadow, including the types of two new species (*Cichlosoma gadovii* and *Sicydium punctatum*); purchased.

One hundred and nine fresh-water Fishes from Trinidad, including the types of three new species (*Tetragonopterus guppyi*, *Auchenipterus guppyi*, and *A. paseæ*); collected and presented by L. Guppy, Esq., jun.

Forty-seven Fishes from Venezuela and the West Indies; presented by Laura, Countess of Wilton.

Thirty-seven Fishes from Argentina, collected by Herr Steinbach, including the types of two new species (*Loricaria steinbachi* and *Jenynsia maculata*); purchased.

Twenty-two Fishes from the King River, Western Australia, including the types of a new species (*Nannatherina balstoni*), collected by Mr. G. C. Shortridge; presented by W. E. Balston, Esq.

Eighty-nine Fishes from the National Antarctic Expedition of the "Discovery," including the types of four new species (*Notothenia hodgsoni*, *N. scotti*, *Champscephalus macropterus*, and *Bathydraco macrolepis*).

Seven Fishes from the Swedish Antarctic Expedition, including examples of *Champscephalus gunneri* and *Notothenia brevipes*, new to the collection; presented by Dr. E. Lönnberg.

Thirty-six stuffed Fishes from various localities; presented by the Hon. W. Rothschild.

Mollusca.—The most important acquisition during the year was the collection of land and fresh-water shells (chiefly Indian), bequeathed by the late Dr. W. T. Blanford, C.I.E., F.R.S. The actual number of specimens to be retained has not yet been ascertained, but it is estimated at about 2,000. The collection contains the types of a considerable number of species described by Dr. Blanford many years ago, and numerous other species which were to have been published in the "Fauna of India," a work upon which he was engaged at the time of his death.

Among the other additions, numbering two thousand four hundred and thirty-six specimens, the following are the most important series:—

Three hundred and forty-eight marine shells mostly from Singapore, collected by the late Surgeon-Colonel S. Archer; presented by Miss Archer.

One hundred and sixty-five deep-sea Mollusca, dredged by the R.I.M.S. "Investigator" in the Bay of Bengal and the Arabian Sea, including the co-types of many species recently described; presented by the Indian Museum, Calcutta.

Fifty-six marine shells from the Gulf of Oman, the Persian Gulf, and Ceylon, including the types of eight species of *Cyclostrema* and the type of *Nassa tindalli*; presented by J. C. Melvill, Esq.

One hundred and fifty-two land, fresh-water, and marine shells from South Africa, Hong Kong, and other localities,

including the types of twenty-three new species; presented by J. H. Ponsonby, Esq.

Eighty-four marine shells from the Gulf of Oman and the Persian Gulf, including the types of twenty-nine new species described by J. C. Melvill; purchased.

Forty-one land and fresh-water shells from Sumatra, including the types of nine new species; presented by Rev. R. Ashington Bullen.

Thirty-two specimens of *Glossula* from India, including the types of nine new species described and presented by Colonel R. H. Beddome.

One hundred and forty-one shells from Lake Tanganyika and the Victoria Nyanza; presented by the Tanganyika Exploring Expedition Committee.

Two hundred and twenty-two land and marine shells from various localities, including ten types and many other species new to the collection; purchased.

Thirteen marine shells from Victoria, &c., including an example of the rare *Voluta roadnightæ*; purchased.

One hundred and fifteen land Mollusca from the Andaman Islands, collected and presented by G. Rogers, Esq.

Crustacea.—The additions number one thousand three hundred and twenty-three, of which the following are the most important:—

Thirty-three parasitic Copepoda, mostly co-types of recently described species; received in exchange from the U.S. National Museum, Washington.

One hundred and forty-four prawns from the lakes of Central Africa, including types of ten new species; presented by the Tanganyika Exploration Committee.

Twelve Crayfish from Roumania; purchased.

Fifteen specimens of *Mysis relicta* and two Crayfish from Ireland; presented by W. F. de Vismes Kane, Esq.

Thirty-four Crayfish from Hungary; presented by Prof. Méhely.

Twenty-three Cirripedia, including co-types of five recently described species; received in exchange from the Indian Museum, Calcutta.

One hundred and ninety Crustacea from New Britain and elsewhere, including the types of sixteen species; presented by Dr. A. Willey.

Four abnormal specimens of the common Lobster; presented by the Directors of Harrod's Stores, Limited.

One River-Crab from the Victoria Falls; presented by C. F. Rousselet, Esq.

Three Prawns from Algiers; presented by R. Gurney, Esq.

Two River-Crabs from Algiers; presented by H. M. Wallis, Esq.

Four fresh-water Crustacea from Christmas Island; presented by Dr. R. Hanitsch, Singapore.

Six River-Crabs from Algiers; presented by Lord Walsingham.

Four River-Crabs from the Transvaal; presented by C. D. Rudd, Esq.

Two Crayfish from Montenegro; presented by Baron Kuhn.

One River-Crab from British East Africa; presented by C. W. Hoblay, Esq.

Claws of a large Lobster; presented by Rowland Ward, Limited.

Four Crustacea from the Nile; presented by R. Loat, Esq.

Ten Crustacea from the Nile; presented by Capt. S. S. Flower.

Twenty terrestrial Isopoda from Corsica; purchased.

Fifteen Crustacea from the West Indies; purchased.

Nine River-Crabs from Ruwenzori; presented by the subscribers to the Ruwenzori Expedition.

Twenty Crustacea from the voyage of the "Valhalla"; presented by the Earl of Crawford.

Thirty-two Decapoda and Schizopoda, including co-types of three recently described species; presented by the Department of Agriculture for Ireland.

One hundred and twenty-nine Cumacea from the Mediterranean, including types of five new species; presented by Dr. Anton Dohrn.

Sixty-seven preparations of British Crustacea, including series of moulted shells showing the rate of growth in *Carcinus maenas* and *Eupagurus bernhardus*; presented by H. J. Waddington, Esq.

Ten Crayfish and one River-Prawn from Mexico; presented by Dr. A. Dugès.

Five Crayfish from Winchester; presented by the Rev. G. M. A. Hewitt.

Thirty specimens of *Rhizocephala* and their hosts, illustrating the modifications produced in the latter by the presence of the parasites; presented by Geoffrey Smith, Esq., B.A.

Five River-Crabs from Italy; received in exchange from Prof. Vinciguerra.

Eighty-seven Crustacea from Scotland; presented by Dr. W. T. Calman.

Twenty-one Schizopoda, Stomatopoda, and Phyllocarida, from Ceylon, including types of two new species; presented by Prof. W. A. Herdman, F.R.S.

Sixteen Crustacea from Australia; presented by F. E. Grant, Esq.

One hundred and three Crayfish from North America; received in exchange from the Carnegie Museum, Pittsburgh, U.S.A.

Ten Prawns from Australia and one Crayfish from Leicester; presented by J. Roberts, Esq.

Fifteen deep-sea Crustacea from the North Atlantic; presented by Dr. R. N. Wolfenden.

Six specimens of a new British Woodlouse (*Trichoniscus pusillus*); presented by R. S. Bagnall, Esq.

Arachnida.—The accessions number three thousand four hundred and eleven, of which the following are most worthy of notice:—

One thousand five hundred Spiders from Paraguay, collected by Dr. Bohls; purchased.

Four hundred and twelve Spiders and Ticks from Uganda, including the types of two new species of Ticks, collected by E. Degen; purchased.

Three hundred and fifty Arachnida from the Cameroons, W. Africa, collected by G. L. Bates; purchased.

One hundred and sixty-four Spiders from Ceylon; presented by Dr. A. Willey.

Two hundred Arachnida from Somaliland, collected by G. W. Bury; purchased.

One hundred and twenty Ticks from Egypt; presented by Professor Bitter.

One hundred and ten Spiders and Mites from the Channel Islands; presented by A. S. Hirst, Esq.

Fifty Cattle-ticks (*Rhipicephalus annulatus*, var. *australis*), from Queensland, Australia; various stages from ova to adult, taken on cattle infected with Texas fever; presented by the New South Wales Health Department.

Eleven Ticks from the Congo Free State, including the types of two new species; presented by Dr. A. Yale Massey.

Myriopoda.—The accessions number three hundred and sixty-nine, of which the following are noteworthy:—

One hundred and seventy-four European Myriopoda, including the co-types of thirty-four forms described by Professor K. Verhoeff; purchased.

Thirty-seven Myriopoda from Ceylon; presented by Dr. A. Willey.

Forty-eight Myriopoda from Somaliland, collected by G. W. Bury; purchased.

Forty-five Myriopoda from the Channel Islands; presented by A. S. Hirst, Esq.

Insecta.—The accessions for the year amounted to eighty-seven thousand eight hundred and seven, distributed in the following manner:—

Coleoptera	-	-	-	-	-	-	58,135
Lepidoptera	-	-	-	-	-	-	21,230
Rhynchota	-	-	-	-	-	-	1,169
Diptera	-	-	-	-	-	-	1,664
Hymenoptera	-	-	-	-	-	-	3,972
Orthoptera	-	-	-	-	-	-	997
Neuroptera	-	-	-	-	-	-	384
Anoplura and Mallophaga	-	-	-	-	-	-	256
Total	-	-	-	-	-	-	<u>87,807</u>

The most important of these are the following:—

(From various Localities.)

The second portion of Dr. D. Sharp's collection of Coleoptera, amounting to about 50,000 specimens, and including the Clavicornia, Palpicornia, Geodephaga, Lamellicornia, Longicornia, Heteromera, Phytophaga, &c.; purchased.

Three thousand nine hundred and thirty-six Palæarctic Lycenidæ, five hundred and ninety-two Palæarctic Pyralidæ, and twenty-nine Indian and Palæarctic Noctuidæ and Zygænidæ, chiefly types; presented by H. J. Elwes, Esq., F.R.S.

One thousand one hundred and seventy-three Lepidoptera, sixty-one Orthoptera, one hundred and two Diptera, thirty-one Hymenoptera, one hundred and ten Rhynchota, and twenty-five Coleoptera; presented by Philip de la Garde, Esq.

One hundred and three Hymenoptera, chiefly types; purchased.

Three hundred and sixty-two Moths, collected by Mr. E. G. B. Meade-Waldo on the cruise of the S.Y. "Valhalla"; presented by the Earl of Crawford, K.G.

Two hundred and three Coleoptera, chiefly co-types; received by exchange from the Genoa Civic Museum.

Six *Aspidiotus aurantii* from Egypt, and forty-two *Coccidæ* from Kew Gardens; presented by R. Newstead, Esq.

(From Great Britain and the Palæarctic Region.)

One *Lestes viridis*, a rare British Neuropteran; presented by E. R. Speyer, Esq.

One hundred and three specimens of *Acalla cristina*, including twenty varieties; presented by J. A. Clark, Esq.

Fifty Diptera, fifty Aphaniptera, thirty specimens of *Cimex lectularius*, and one hundred Mallophaga from Macin, near Braila, Roumania; presented by Dr. Ernest Belzoni, H.B.M. Vice-Consul.

Twenty-four Hymenoptera, bred from pupæ taken at Bagshot Sands; presented by R. A. Bullen, Esq.

Three thousand two hundred and ninety-six Lepidoptera, one thousand five hundred and fifty-two Hymenoptera, seven hundred and eighty-two Coleoptera, two hundred and fifty-three Diptera, eighty-one Orthoptera, forty-six Rhynchota, thirty-seven Neuroptera, and twenty Trichoptera from Tibet; collected by Captain Herbert J. Walton, I.M.S., and the officers of the "Tibet Frontier Commission"; presented by the Government of India.

One hundred and sixty Butterflies and twenty-four Moths from the Tyrol; presented by Sir G. F. Hampson, Bart.

Twenty-six cards of cases of British *Coleophoridae*; presented by H. J. Turner, Esq.

(From Africa.)

Five hundred Butterflies and three hundred and seven Moths from Uganda; presented by Prof. E. A. Minchin.

One hundred and seven Moths, three pupæ and fourteen larvæ, eighty-nine Neuroptera, five Diptera, twenty-two Hymenoptera, twenty-three Orthoptera, two hundred and seventy-one Coleoptera, and seventeen Rhynchota, from Mashonaland; presented by G. A. K. Marshall, Esq.

Two hundred and fifty-four Lepidoptera, one hundred and fifty Coleoptera, one hundred and ninety-six Hymenoptera, five Neuroptera, fifty-three Rhynchota, sixty-five Diptera, and fourteen Orthoptera, from East Africa and Transvaal; presented by A. J. Cholmley, Esq.

One hundred and eighty-six Butterflies from Southern Nigeria; presented by Wm. Shield, Esq.

Seven hundred and eighty-one Lepidoptera, forty-five Hymenoptera, eighteen Rhynchota, sixty-one Diptera, fourteen Coleoptera, three Orthoptera, and two Neuroptera, from Sierra Leone, Gambia, Gold Coast, Ashanti, and Nigeria; presented by G. C. Dudgeon, Esq.

Six Butterflies, three hundred and eighteen Moths, ten pupæ, three Diptera, and three Rhynchota, from Lagos; presented by G. L. Boag, Esq.

One thousand two hundred and sixty Butterflies, three hundred and eighty-seven Moths, one hundred and sixteen Orthoptera, eleven Hymenoptera, seven Neuroptera, sixty-five Rhynchota, one hundred and twenty-four Coleoptera, and one Dipteron from British East Africa, collected on the Lake Rudolf Expedition; presented by Sir John Harrington.

One hundred and thirty Butterflies and ten Moths from Fernando Po; presented by the Duke of Bedford, the Hon. W. Rothschild, and Mrs. Percy Sladen.

Two hundred Diptera, three Aphaniptera, and a series of Pediculi, from Seychelles Islands; presented by P. R. Dupont, Esq.

One hundred and eighteen Diptera, twenty-five Aphaniptera, twenty Hymenoptera, two Rhynchota, two Coleoptera, one *Macroglossa trochilioides*, one caterpillar, one Mantis, and four Neuroptera, from Angola; presented by Dr. F. C. Wellman.

Two thousand one hundred and forty-seven Coleoptera, eight Orthoptera, two Hymenoptera, eleven Rhynchota, and one Dipteron, from Table Mountain, Cape of Good Hope; presented by W. Bevins, Esq.

(From the Oriental Region.)

Sixty-six Coleoptera, eleven Rhynchota, eleven Orthoptera, twenty-four Lepidoptera, eight Diptera, and three Hymenoptera, from Cocos Keeling Islands; presented by F. Wood-Jones, Esq.

Five Butterflies and two hundred and fifty-six Moths from Bombay; presented by Dr. Jayakar.

One thousand eight hundred and seventy-six Moths from New Guinea; presented by G. H. Kenrick, Esq.

Two hundred and twenty Butterflies, one hundred and thirty-eight Moths, sixteen Rhynchota, seventeen Diptera, twenty-six Hymenoptera, and three Coleoptera, from the Philippine Islands; presented by R. C. Macgregor, Esq.

One hundred and eighty-five Coleoptera, twenty-eight Rhynchota, and two Orthoptera from Sanga Sanga, East Borneo; presented by H. D. Jensen, Esq.

Twenty-six Coleoptera, twelve Hymenoptera, one Dipteron, eighteen Orthoptera, two Neuroptera, thirteen Rhynchota, and one hundred and twenty-seven Lepidoptera, from Singapore; presented by H. N. Ridley, Esq.

Forty-three Orthoptera, two hundred and ninety-nine Rhynchota, two hundred and forty-nine Hymenoptera, seven Neuroptera, three hundred and seventy-five Butterflies, nine hundred and ninety-two moths, six hundred and sixty-seven Coleoptera, twenty Diptera, and a collection of notes and drawings from Assam, chiefly Khasia Hills; presented by Col. W. F. Badgley.

Two hundred and ten Orthoptera from Ceylon, including nearly all the species known to occur there; presented by Dr. A. Willey and E. E. Green, Esq.

One hundred and ninety-six Coleoptera, twenty-two Rhynchota, forty-four Hymenoptera, and two Orthoptera, from Darjeeling and Dehra Dun; one hundred and twelve Coleoptera, nineteen Rhynchota, one hundred and seventy-five Hymenoptera, and seventeen Orthoptera from Nicobar

Islands; and twenty-three Orthoptera, twenty-five Rhynchota, six hundred and fifty Hymenoptera, and one hundred and fifty-two Coleoptera, from Andaman Islands and Narcondam Island; presented by Gilbert Rogers, Esq.

(From America.)

Nine hundred and forty-one Central American *Scolytidæ*, worked out and described by Mr. W. F. Blandford; and two hundred and fourteen Clavicorn Coleoptera, worked out and described by Dr. D. Sharp; presented by F. D. Godman, Esq., D.C.L., F.R.S.

Twenty Butterflies, three hundred and fifty-three Moths from Trinidad; and three Butterflies, two hundred and two Moths from Venezuela; presented by W. T. Kaye, Esq.

Two hundred and twenty-two Moths, and two Pupæ from California; presented by W. D'Urban, Esq.

Eighty Butterflies, one hundred and forty-two Coleoptera, ten Hymenoptera, and three Rhynchota from Tierra del Fuego; presented by Capt. R. Crawshay.

Echinoderma.—The accessions were remarkably scanty—being only eighteen; and none were of special interest.

Vermes.—Here again the accessions were only seventy-five, but the majority are of great interest, being the Chætognaths of the Siboga and Challenger Voyages, which have been determined by Dr. G. Herbert Fowler.

Anthozoa.—The accessions were five hundred and thirty-four, and consisted mainly of microscopic preparations made by Dr. Fowler in the course of his well-known investigations into the morphology of Corals, and are obviously of great value.

Porifera.—Of the three hundred and fifty-three acquisitions the most interesting are:—

A collection of fourteen specimens of fresh-water Sponges from the Victoria Nyanza and Lakes Tanganyika and Nyasa, collected by Dr. W. A. Cunningham in the course of the Third Tanganyika Expedition; presented by the Tanganyika Exploration Committee.

A very valuable set of collections of Calcareous Sponges from various localities, comprising numerous specimens described and figured by E. A. Minchin; also spicule-drawings of the above specimens and micro-preparations. The total number of specimens and preparations is one hundred and forty-eight; presented by Prof. E. A. Minchin.

An example of the gigantic "pfaahl-nadel" or pile needle of *Monorhaphis chuni*, Schulze, an Hexactinellid Sponge.

The needle is 41 inches in length, being the longest known.

It was obtained from 160 fathoms from the channel between Dar-es-salam and Zanzibar; and came up entangled

in an Alcyonarian coral growing on a cable. The spicule is exhibited in the Hexactinellid Sponge-case in the Coral Gallery; presented by J. T. Last, Esq.

A collection of pieces of sponges cut from type specimens in the Berlin Museum, and sent to the British Museum (Nat. Hist.) in exchange for pieces of type specimens in the British Museum Collection; one hundred and eighty-three species are represented in all, and constitute a valuable index of several collections recently described by German naturalists.

Two immense Horny Sponges, the largest specimens known. One (*Hippospongia equina*) is 3 feet in diameter, and in the form of a cart-wheel rim; the other (*Euspongia officinalis*, var. *lamella*, or the Elephant's Ear Sponge) is in the form of a flattened circular slightly concave disk supported on a short central stalk on the under surface; purchased.

VI.—*Visitors and Students.*

The total number of visits paid to the three sections of the Department during the year by Students and other persons requiring assistance or information amounted to 10,813, as compared with:—

11,811	in the year	1905.
11,824	„	1904.
11,627	„	1903.
10,633	„	1902.
12,813	„	1901.
11,923	„	1900.
10,728	„	1899.
10,830	„	1898.
9,708	„	1897.
7,995	„	1896.

E. Ray Lankester,
Director and Acting Keeper
of Zoology.

DEPARTMENT OF GEOLOGY.

I.—*Arrangement and Conservation.*

Mammalia (Galleries 1 and 2).—The drawers of miscellaneous remains from caverns have been carefully examined, and all the more important specimens have been labelled, removed, and placed in their systematic position in the cabinets.

A selected series of bones of *Mammalia* from the excavations in the Roman town of Silchester, near Reading, has been arranged in a cabinet in the basement store-room.

The unexhibited remains of human skeletons have been arranged and labelled in the drawers of table-case 1.

The unexhibited remains of *Canidæ* have been arranged and labelled in the drawers of table-case 2.

The remains of *Felidæ* exhibited in pier-case 3 have been re-tableted and labelled with printed labels.

A plaster cast of a complete skeleton of *Machærodus neogæus*, from the Pampa Formation of Buenos Aires (original in the National Museum, Buenos Aires), has been mounted on a pedestal in front of Stand A.

The lower part of pier-case 6 has been re-arranged to admit a new skull of *Rhinoceros antiquitatis* from the river gravel near Peterborough.

A plaster cast of a complete skeleton of *Hippidium neogæum*, from the Pampa Formation of Buenos Aires (original in the National Museum, Buenos Aires), was mounted for some time on a special pedestal near table-case 5, and has since been removed to the Gallery of Domestic Animals for comparison with the skeletons of existing horses.

Pier-case 11, containing the remains of *Hippopotamidæ*, has been re-arranged, re-fitted, and painted, to admit a newly mounted skeleton of *Hippopotamus minutus* from a cavern in Cyprus.

A newly discovered skull of *Arsinoitherium zitteli*, from the Upper Eocene of the Fayum, has been placed in wall-case 22, which has been re-arranged and labelled.

The pelvis of the modelled skeleton of *Halitherium schinzi* in Case V has been re-fixed in a new position now believed to be correct. A plaster cast of the skull and mandible of *Eotherium* has been mounted in pier-case 29.

Wall-case 27, containing the remains of gigantic extinct *Marsupialia* from Australia, has been re-arranged, re-fitted.

and painted, to admit the newly mounted fore and hind limbs of *Diprotodon australis*.

Number of specimens of Mammalia registered, 728.

Aves (Gallery 2).—A few bones of birds from caverns have been labelled and placed in drawers with the Pleistocene remains.

No new specimens registered.

Reptilia and Amphibia (Galleries 3, 4, 5).—New cabinets with more commodious drawers have been fixed beneath the table-cases 24 to 29, and the unexhibited catalogued remains of Sauropterygia have been transferred to them.

The unexhibited catalogued small remains of Dinosauria have been transferred to the drawers of the new cabinets beneath table-cases 15 to 19.

The plaster cast of the skeleton of *Iguanodon mantelli*, from the Wealden of Bernissart, Belgium, has been removed and re-mounted in the Gallery of Reptiles, Department of Zoology, for more satisfactory comparison with *Diplodocus*.

A skeleton of *Pteranodon* from the Chalk of Kansas, with the bones separately labelled, has been placed in table-case 4.

The lower portion of wall-case 17 has been entirely re-arranged and re-fitted to accommodate a specimen of *Ichthyosaurus communis* from the Lower Lias of Somersetshire, showing a contained embryo.

Wall-case 19 has been partially re-arranged to admit a new specimen of *Pleurosternum* from the Purbeck Beds, Swanage.

The Microsaurian Labyrinthodonts exhibited in table-case U have been arranged and re-tableted with printed labels.

Number of specimens of Reptilia and Amphibia registered, 121.

Pisces (Gallery 6).—The exhibited Cephalaspidæ in table-case B, and some newly acquired specimens of *Asterolepis* in table-case E, have been tableted and provided with printed labels.

A new specimen of the pectoral fins of *Protosphyræna*, from the Chalk of Kansas, has been mounted in a glazed frame on the wall between wall-cases 12 and 13.

Table-case 26, containing Clupeoid fishes, has been re-arranged to accommodate recent acquisitions, and printed labels have been prepared.

New printed labels have been prepared for *Lepidotus* in wall-case 9, for numerous Cretaceous and Tertiary fishes, and for miscellaneous recent acquisitions.

Number of specimens of Pisces registered, 277.

Mollusca (Galleries 7 and 8).—The table-cases in Gallery 8 have been re-numbered on the same plan as those in the corresponding galleries.

Additions have been made to the exhibited series of British marine Post-Pliocene *Mollusca*, which is now as nearly as possible complete.

Some newly discovered Jurassic *Mollusca* from Singapore have been mounted and labelled for exhibition.

The labelling of the Cornbrash Ammonites has been revised, and additions have been made to the exhibited Palæozoic Pteropoda.

Post-Pliocene Lamellibranchia and Gastropoda from Barbadoes, South Africa, Southern France, and Armenia; Miocene *Mollusca* from Hungary; Cretaceous *Mollusca* from France, Syria, and Armenia; Jurassic Lamellibranchia from France; Carboniferous *Mollusca* from Belgium; and various other recent acquisitions have been registered, labelled, and incorporated in the unexhibited collection.

The unexhibited Wealden Lamellibranchia and Gastropoda, and collections from the Italian Pliocene and the West Indian Tertiaries, have been partly re-arranged to save space.

Number of specimens of *Mollusca* registered: Cephalopoda, 363; Gastropoda, 1,405; Lamellibranchia, 2,218.

Arthropoda (Gallery 8).—The registration, labelling, and arrangement of the unexhibited Phyllocarida, Ostracoda, Cirripedia, Phyllopoda, and Amphipoda have been completed, and progress has been made with the unexhibited Decapoda. The Cirripedia have been transferred to the drawers of a new cabinet, leaving additional space for the other groups.

Some of the trilobites have been provisionally sorted into genera, in preparation for cataloguing.

A second slab of Upper Cambrian limestone from North China, with numerous trilobites, has been mounted in a glazed frame on the wall between wall-cases 14 and 15.

Number of specimens of *Arthropoda* registered, 184.

Vermes (Gallery 8).—All the unexhibited specimens have been transferred to a new cabinet, thus leaving additional space for the Echinoderma. A few selected specimens have been mounted for exhibition with printed labels.

Number of specimens of *Vermes* registered, 243.

Polyzoa (Gallery 8 and Workroom).—A gallery has been fitted round the workroom behind the Departmental Library, to accommodate the cabinets of unexhibited *Polyzoa*, of which the arrangement was begun last year.

Number of specimens of *Polyzoa* registered, 92.

Brachiopoda (Gallery 8).—The arrangement, registration, and labelling of the unexhibited Brachiopoda have been continued. Progress has chiefly been made with the Devonian, Carboniferous, and Triassic specimens, and special attention has been paid to those from Australia and to the Klipstein Collection from the Alpine Trias.

Several exhibited specimens from the British Carboniferous have been re-labelled, and some additions have been made to the series, especially among Strophomenidæ.

Number of specimens of Brachiopoda registered, 2,547.

Echinoderma (Gallery 8).—All the unexhibited Cystidea and Blastoidea have been transferred to new cabinets. It has thus been possible to re-arrange the unexhibited British Crinoidea and to incorporate many recent accessions.

Various genera of Echinoidea, mostly Mesozoic, have been revised, and the exhibited specimens re-mounted with printed labels, e.g., *Hemipedina*, *Diademopsis*, *Orthopsis*, and *Eodiadema*.

A selection of Lower Devonian Ophiuroids from Bundenbach has been mounted in centre-case A 3, with explanatory diagrams and labels. A few other additions have been made to the exhibited series of Echinoderma.

Number of specimens of Echinoderma registered, 4,251.

Anthozoa (Gallery 10).—The collection of Jurassic Corals, from the Corallian, Great Oolite and Inferior Oolite formations, has been arranged, labelled, and completely registered while incorporating recent acquisitions from the Tomes Collection.

A typical collection of British Jurassic Corals has been arranged, tableted, and labelled, with explanatory diagrams, in table-cases 2 and 3.

Number of specimens of Anthozoa registered, 2,795.

Hydrozoa, *Porifera*, and *Protozoa* (Gallery 10).—The exhibited series of fossil Protozoa in table-cases 15 and 16 has been extended, revised, and partly re-labelled, with explanatory diagrams.

Number of specimens registered, 203.

Plantæ (Gallery 10).—The arrangement and labelling of the Lower Eocene plants in table-case 18 have been completed.

A portion of fossil tree, obtained by the Jackson-Harmsworth Expedition in Franz Josef Land, has been mounted for exhibition in wall-case 10.

The arrangement, mounting, and labelling of the Rhætic and Triassic plant-remains in wall-case 14 have been completed.

The slides in the Williamson Cabinet of Carboniferous plants have been cleaned and re-arranged in a manner more convenient for ready reference.

Number of specimens of Plantæ registered, 65.

II.—*Work of Mason, Assistant Mason, and Workshop Attendant.*

Numerous Mammalian remains from the Eocene of the Fayum, Egypt, including a skull and mandible of *Palæomastodon*, have been extricated from the matrix, hardened, and prepared for study or exhibition.

Plaster casts of many Eocene Mammalian remains from Egypt have also been made.

A plaster cast of the skeleton of *Machærodus* from the Argentine Pampa has been mounted on ironwork for exhibition.

The fore and hind limbs of *Diprotodon*, from the Pleistocene of Australia, have been mounted on ironwork for exhibition, the scapulæ and pelvis being supplied by plaster casts.

The original skull of *Diprotodon* has been prepared for more satisfactory mounting.

The plaster cast of the skeleton of *Iguanodon* has been taken down, cleaned, and re-mounted.

The plaster cast of the hind limb of *Allosaurus* has also been repaired and re-mounted.

A plaster model of the skeleton of *Triceratops*, from the Upper Cretaceous of Wyoming, has been mounted on ironwork.

Various skeletons of *Ichthyosaurus* in slabs of Lias have been prepared for framing.

A skull of *Pteranodon*, from the Chalk of Kansas, has been prepared for framing.

Numerous Dinosaurian remains from the Upper Cretaceous of Transylvania, and various reptilian bones from the Trias and Cretaceous of Brazil, have also been prepared for study or exhibition.

A reptilian skeleton from the Karoo Formation of South Africa has been extricated from hard matrix.

Fishes from the Chalk of Kansas, including the pectoral fins of *Protosphyræna*, have been prepared for framing. A few fishes from the English Chalk have also been prepared.

Many sections of Jurassic Corals have been made and polished.

Various recently acquired fossils have been trimmed, and numerous plaster casts of fossils have been made for exchange.

III.—*Printing of Labels.*

The Museum Printer continues to devote one day each week to the preparation of labels for the Department of Geology; but a Boy Attendant in the Department composes and prints most of the labels, and has this year prepared upwards of 774 (and 3,188 prints of these).

IV.—*Exchanges and Duplicates.*

Exchanges of plaster casts and duplicate fossils have been made with the following institutions:—Surveyors' Institution, London; Australian Museum, Sydney; National Museum of Natural History, Paris; University of Poitiers; University of Vienna; Hochschule, Leoben; Senckenberg Museum, Frankfurt; United States National Museum, Washington; and American Museum of Natural History, New York. Small exchanges have also been made with Messrs. R. Kidston, A. Piret, and E. Mascke.

Duplicate fossils have been presented to the Universities of Aberdeen, Glasgow, and Liverpool. Small duplicates for purposes of research have also been supplied to Mr. E. S. Goodrich, Mr. C. Jooss, Dr. H. C. Sorby, and Mr. C. S. Tomes.

V.—*Departmental Library.*

The additions to the Library, which have been registered, stamped, catalogued, and press-marked, comprise 286 new works and pamphlets, of which 164 were purchased and 122 presented; 220 volumes and 313 parts of serials in progress, of which 55 volumes and 176 parts were purchased and 165 volumes and 137 parts were presented; 81 maps, of which 4 sheets were purchased and 77 sheets presented; and 20 photographs and 6 sheets of diagrams, which were purchased. 135 volumes have been bound.

Progress has been made in preparing a shelf-index of the separate works.

A new map-case, to which the British Geological Survey maps have been transferred, has been provided to replace one of the library tables.

VI.—*Publications.*

The Descriptive Catalogue of the Tertiary Vertebrata of the Fayum has been published. The MSS. of the Catalogues of Fossil Rodentia, Marine Reptiles of the Oxford Clay, and Fossil Fishes (Supplement) have made progress.

The MS. of a new Guide Book to the Fossil Invertebrate Animals is also in progress.

A new List of Casts and Moulds of Fossils in the Department of Geology has been printed and issued.

The following descriptive papers dealing with various parts of the collection, chiefly recent acquisitions,² have been published in scientific journals during 1906:—

By A. S. Woodward, LL.D., F.R.S.

1. The Study of Fossil Fishes. Proc. Geol. Assoc., vol. xix., pp. 266–282, text-figs. 1–15.
2. Report on Visit to Gallery of Fossil Reptiles. Ibid., pp. 307–309.
3. On a Carboniferous Fish-Fauna from the Mansfield District, Victoria. Mem. National Mus., Melbourne, No. 1, with 11 plates.
4. On a New Specimen of the Chimæroid Fish, *Myriacanthus paradoxus*, from the Lower Lias near Lyme Regis (Dorset). Quart. Journ. Geol. Soc., vol. lxii, pp. 1–4, pl. i.
5. On *Rhynchosaurus articeps*, Owen. Rep. Brit. Assoc., 1906, pp. 293–299, pl. ii.
6. On a Tooth of *Ceratodus* and a Dinosaurian Claw from the Lower Jurassic of Victoria, Australia. Ann. and Mag. Nat. Hist. [7], vol. xviii., pp. 1–3, pl. i.
7. On *Myriolepis hibernica*, a Palæoniscid Fish from the Irish Coal Measures. Ibid., pp. 416–419, pl. x.
8. On two Specimens of *Ichthyosaurus* showing contained Embryos. Geol. Mag. [5], vol. iii., pp. 443, 444, pl. xxiv.
9. The Relations of Palæontology to other Branches of Science. Rep. Congress Arts & Sci., St. Louis, 1904, vol. iv., pp. 551–565 (partly reprinted in Ann. and Mag. Nat. Hist. [7], vol. xviii., pp. 312–318).

By F. A. Bather, M.A., D.S.C.

1. The Species of *Botryocrinus*. Ottawa Naturalist, vol. xx., pp. 93–104.
2. The Echinoderm Name *Calveria hystrix*. Ann. and Mag. Nat. Hist. [7], vol. xvii., pp. 249–252.

By R. B. Newton, F.G.S.

1. Note on Swainson's Genus *Volutilithes*. Proc. Malac. Soc., vol. vii., pp. 100–104, pl. xii.
2. Notes on some Fossils from Singapore discovered by John B. Scrivenor, F.G.S., Geologist to the Federated Malay States. Geol. Mag. [5], vol. iii., pp. 487–496, pl. xxv.

By G. C. Crick, A.R.S.M., F.G.S.

1. Note on a Rare Form of *Actinocamax* (*A. grossouvrei*) from the Chalk of Yorkshire. The Naturalist, 1906, pp. 155–158, pl. xvi.

By W. D. Lang, M.A., F.G.S.

1. The Reptant Eleid Polyzoa. Geol. Mag. [5], vol. iii., pp. 60-69, text-figs. 1-12.

2. A Key to the Published Figures of the Cretaceous Forms of the Polyzoan genus *Entalophora*. Ibid., pp. 462-467.

3. Notes on the Geology of Lyme Regis and Charmouth. Proc. Geol. Assoc., vol. xix., pp. 323, 324, 328, 329.

4. Cretaceous Polyzoa from Pondoland. Ann. S. African Mus., vol. iv., pp. 282-286, pl. xxxiii., figs. 10-12.

By Miss D. M. A. Bate.

1. The Pigmy Hippopotamus of Cyprus. Geol. Mag. [5], vol. iii., pp. 241-245, pl. xv.

By R. F. Scharff, PH.D.

1. On the Former Occurrence of the African Wild Cat (*Felis ocreata*, Gmel.) in Ireland. Proc. Roy. Irish Acad., vol. xxvi., sect. B., pp. 1-12, pl. i.

By Charles S. Tomes, M.A., F.R.S.

1. On the Minute Structure of the Teeth of Creodonts, with especial reference to their suggested resemblance to Marsupials. Proc. Zool. Soc., 1906, vol. i., pp. 45-58, text-figs.

By Baron Franz Nopcsa, Jun.

1. Remarks on the supposed Clavicle of the Sauropodous Dinosaur, *Diplodocus*. Proc. Zool. Soc., 1905, vol. ii., pp. 289-294, text-figs.

By W. J. Holland, LL.D.

1. The Osteology of *Diplodocus*, Marsh. Mem. Carnegie Museum, vol. ii., no. 6.

By Baron F. von Huene.

1. Ueber die Dinosaurier der Aussereuropaischen Trias. Geol. and Palæont. Abhandl., n.s., vol. viii. (1906), pt. 2.

By C. Davies Sherborn, F.G.S.

1. Remarks on the Irregular Echinoids of the White Chalk of England, as exhibited in the British Museum (Nat. Hist.). Geol. Mag. [5], vol. iii., pp. 31-33.

By Upfield Green, F.G.S., and C. Davies Sherborn, F.G.S.

1. Lists of Wenlockian Fossils from Porthalla; and Taunusian Fossils from Polyne Quarry, near Looe, Cornwall. *Geol. Mag.* [5], vol. iii., pp. 33-35.

By S. S. Buckman, F.G.S.

1. Brachiopod Homœomorphy: *Pygope*, *Antinomia*, *Pygites*. *Quart. Journ. Geol. Soc.*, vol. lxii., pp. 433-455, pl. xli.

By Miss Ethel M. R. Wood, D.Sc.

1. On Graptolites from Bolivia, collected by Dr. J. W. Evans in 1901-2. *Quart. Journ. Geol. Soc.*, vol. lxii., pp. 431, 432.

By Philip Lake, M.A., F.G.S.

1. Trilobites from Bolivia, collected by Dr. J. W. Evans in 1901-1902. *Quart. Journ. Geol. Soc.*, vol. lxii., pp. 425-430, pl. xl.

By K. A. Grönwall, Ph.D.

1. On the Occurrence of the Genus *Dimyodon*, Mun.-Chalm., in the Mesozoic Rocks of Great Britain. *Geol. Mag.* [5], vol. iii., pp. 202-205.

By Miss Jane Donald (Mrs. G. B. Longstaff).

1. Notes on the Genera *Omospira*, *Lophospira*, and *Turritoma*; with Descriptions of New Proterozoic Species. *Quart. Journ. Geol. Soc.*, vol. lxii., pp. 552-572, pls. xliii., xlv.

By R. Ashington Bullen, B.A., F.G.S.

1. Notes on some Microzoa and Mollusca from East Crete. *Geol. Mag.* [5], vol. iii., pp. 354-358, pls. xviii., xix.

By D. H. Scott, F.R.S., and A. J. Maslen, F.L.S.

1. Note on the Structure of *Trigonocarpon olivæforme*. *Ann. Botany*, vol. xx., pp. 109-112.

Assistance has been given by Messrs. R. B. Newton and G. C. Crick to Dr. Felix Oswald in the preparation of the palæontological part of his "Treatise on the Geology of Armenia" (1906).

Various fossils in the Department of Geology have also been described and figured by Prof. S. H. Reynolds, Dr. R. H. Traquair, Mr. Henry Woods, Mr. Philip Lake, Miss Elles,

and Miss Wood (Mrs. Shakespear), in the Monographs of the Palæontographical Society, vol. lx., for 1906.

Specimens have been lent for original research to Mr. Henry Woods (Cambridge), Dr. Wheelton Hind (Stoke-on-Trent), Mr. L. Richardson (Cheltenham), Mr. R. Kidston (Stirling), Prof. F. W. Oliver (London), Miss E. M. R. Wood (Birmingham), Dr. Otto Reis (Munich), Mr. Philip Lake (Cambridge), Prof. T. D. A. Cockerell (Colorado), Prof. A. C. Seward (Cambridge), Mr. E. A. Newell Arber (Cambridge), Prof. J. W. Gregory (Glasgow), Prof. L. Joubin (Paris), Dr. R. H. Traquair (Edinburgh), and Prof. F. E. Weiss (Manchester).

VII.—Acquisitions.

A.—By Donation.

Mammalia.—About 200 Mammalian remains collected by Dr. C. W. Andrews, F.R.S., from the Eocene of Fayum, Egypt, including a skull and mandible of *Palæomastodon*, an immature mandible of *Palæomastodon*, a skull and other remains of *Arsinoitherium*, and a mandibular ramus of *Saghattherium*. Presented by W. E. de Winton, Esq.

Portions of the skull of *Prozeuglodon atrox*, from the Eocene of Fayum, Egypt. Presented by the Egyptian Government.

One skull, one axis, two imperfect cervicals, and eight dorsals of *Moeritherium*, and a portion of mandible of *Arsinoitherium*, from the Eocene of Fayum. Presented by Baron Franz Nopcea, jun.

Portion of a molar tooth of *Elephas africanus* from the face of a coral cliff on the W. side of the island of Zanzibar. Presented by Sir John Kirk, G.C.M.G., F.R.S.

A plaster cast of an abnormal tusk of Indian elephant, the original being in the Paris Museum. Presented by the Hon. Walter Rothschild, M.P., Trustee of the British Museum.

Bovine tibia from a submerged forest at Leasowe, Cheshire. Presented by J. H. Milton, Esq.

A hundred and eighty bones of *Equus*, *Bos*, *Cervus*, *Capreolus*, *Ovis*, and *Canis*, from excavations on the site of the Roman town of Silchester, Hants. Presented by His Grace the Duke of Wellington, K.G.

Forty portions of the skull and skeleton of voles (*Microtus gregalis* and *M. ratticeps*) from a cavern at Clevedon, Somerset. Presented by Herbert C. Male, Esq., M.D.

Portion of a skull of *Felis pardus* from peat, probably of Ireland. Presented by M. P. Price, Esq.

Portions of a skull of *Sarcophilus lanianus* from a river deposit, King's Creek, Pilton, Queensland. Presented by George F. Bennett, Esq.

Vertebra and distal end of ulna of *Diprotodon* from South Australia. Presented by H. J. Hillier, Esq.

Aves.—Five plaster casts of brains of *Archæopteryx* and birds, described by the donor in Nat. Hist. Review, 1865, new series, vol. 5, p. 415. Presented by Sir John Evans, K.C.B., F.R.S., Trustee of the British Museum.

Bones of birds from excavations on the site of the Roman town of Silchester, Hants. Presented by His Grace the Duke of Wellington, K.G.

Reptilia.—Thirteen plaster casts and seven gutta-percha impressions of specimens of *Procolophon* from Fernrocks, Cape Colony, illustrating the donor's paper in Proc. Zool. Soc. 1905, vol. i., pp. 218–230, text-figs. 30–38; also a fragment of *Procolophon*, and a gutta-percha impression of part of skull of *Petrophryne* from the same locality. Presented by Professor H. G. Seeley, F.R.S.

Two specimens of *Ichthyosaurus* and one specimen of *Plesiosaurus* from the Lower Lias, Lyme Regis, Dorset. Presented by the Rev. R. Ashington Bullen, F.G.S.

Portion of a Chelonian skull and two Chelonian vertebræ from the Kimmeridge Clay. Presented by G. E. Dibley, Esq., F.G.S.

Portion of the skull of *Goniopholis crassidens* from the Wadhurst Clay, Brede Quarry, near Rye, Sussex. Presented by F. Ross Thomson, Esq., F.G.S.

An Ichthyosaurian tooth from the Neocomian of Amptill, Beds. Presented by G. C. Crick, Esq., F.G.S.

A plaster model of the skeleton of *Pteranodon longiceps* from the Cretaceous of Kansas, prepared under the direction of Dr. George F. Eaton. Presented by the Peabody Museum of Yale University, U.S.A.

Eight reptilian remains (including the mandibular symphysis of "*Crocodylus hartti*") from the Cretaceous of Bahia, Brazil. Presented by Joseph Mawson, Esq., F.G.S.

Twenty reptilian bones from Eocene of Fayum, Egypt. Presented by W. E. de Winton, Esq.

Fourteen vertebræ of *Pterospheenus schweinfurthi* from the Middle Eocene of Fayum, Egypt. Presented by Baron Franz Nopcsa, jun.

Twenty bones of *Didosaurus mauritianus*, from Mauritius. Presented by C. Forster Cooper, Esq.

Pisces.—Sixteen fishes from the Coal Measures of Commeny, France. Presented by Monsieur Fayol.

Six plaster casts of the jaws of *Mylostoma beecheri* from the Upper Devonian, Portage Group, of Mount Morris, New York; the original specimens in the Yale University Museum being the type described and figured by Dr. Eastman. Presented by Prof. Charles Schuchert.

A fish tooth (*Deltodus*?) from the *Archæocidaris* bed, Lower Carboniferous, top of Shap Abbey cliff, Shap. Presented by Prof. E. J. Garwood, F.G.S.

Thirty-five remains of Carboniferous fishes from Mansfield, Victoria, Australia. Presented by the Director, National Museum, Melbourne.

Four teeth of *Lepidotus* from the Neocomian, Ampthill, Beds. Presented by G. C. Crick, Esq., F.G.S.

Thirty three fish remains, including the types of *Diplo-mystus longicostatus*, *Chiromystus mawsoni*, and *Mawsonia gigas*, from the Cretaceous of Bahia, Brazil. Presented by Joseph Mawson, Esq., F.G.S.

Three portions of the rostrum of *Pristis* and twenty remains of *Fayumia*, from the Middle Eocene of Fayum, Egypt. Presented by Baron Franz Nopcsa, jun.

A fish tooth (*Hemipristis serra*) from the Middle Miocene, Asphalt Quarries, Ragusa, Sicily. Presented by Ambroise Paré Brown, Esq.

Mollusca.—Twelve Mollusca from the Lower Palæozoic rocks of Ontario, Canada. Presented by Col. C. C. Grant.

Forty-nine Mollusca from the Silurian of Shropshire. Presented by Col. J. A. Anstice, C.B.

One Orthoceratite from the Lower Ludlow, Builth. Presented by Dr. A. S. Woodward, F.R.S.

An *Orthoceras* from the Lower Devonian (Taunusian), Fowey Harbour, Cornwall. Presented by W. D. Lang, Esq., F.G.S.

A supposed Orthoceratite from the Lower Devonian, Crealsa Quarry, Zealla, Cornwall. Presented by C. Davies Sherborn, Esq., F.G.S.

Eight Gastropods and seven Lamellibranchs from the Lower Devonian of Mayenne. Presented by F. A. Bather, Esq., D.Sc.

One Lamellibranch from the Carboniferous Limestone, Uphill, near Weston-super-Mare. Presented by Laurence Riley, Esq.

Four Lamellibranchs and one Cephalopod from the Muschelkalk, Vittel (Vosges), France. Presented by B. B. Woodward, Esq., F.L.S.

One Gastropod (*Eucyclus*) from the Middle Lias, Upper Shuckburgh, Warwickshire. Presented by Miss Caroline Shuckburgh.

Five Belemnites and twenty Lamellibranchs, from the Oxford Clay near Chippenham. Presented by Sir John T. Goldney.

Six natural casts of the Gastropod *Pleurotomaria*, from the Portlandian beds of Swindon. Presented by A. D. Passmore, Esq.

Two Ammonites, two Gastropods, and five Lamellibranchs from the Portland beds of Swindon. Presented by Chas. H. Gore, Esq.

One Ammonite from the Jurassic, Mombasa, E. Africa. Presented by J. T. Last, Esq.

Five Lamellibranchs, described and figured by R. B. Newton, Geol. Mag., 1906, p. 487, pl. xxv., from the Jurassic of Singapore. Presented by Dr. R. Hanitsch.

One Gastropod and seventeen Lamellibranchs, described and figured by R. B. Newton, Geol. Mag., 1906, p. 487, pl. xxv., from the Jurassic of Singapore. Presented by John B. Scrivenor, Esq., F.G.S.

Two rock-specimens containing shells described as *Dentalium huttoni*, by F. A. Bather, Geol. Mag., 1905, p. 537, probably of Lower Jurassic age, from New Zealand. Presented by H.M.S. "Discovery."

A portion of *Nautilus* (probably *N. undulatus*) from the Lower Greensand, Bargate Stone Quarry, Hascombe, near Godalming. Presented by Joseph Godman, Esq.

A portion of Ammonite (*Hoplites interruptus*) from the Albian, Black Ven, Charmouth, Dorset. Presented by Miss Crosfield.

One *Actinocamax* from the *Marsupites*-zone, Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

Five Gastropods and two Cephalopods from the Upper Chalk, Norwich, from the Bayfield Collection; one Gastropod and one Ammonite from the Lower Chalk, Southeram, near Lewes. Presented by B. B. Woodward, Esq., F.L.S.

Two limestone casts of Lamellibranchs from the Cretaceous rocks of Lebanon. Presented by Miss E. H. Trower.

A fragmentary *Septifer* of (?) Cretaceous age from Abu Rahal, E. of Edfu on the Nile, Egypt. Presented by the Geological Survey of Egypt.

One Cephalopod, fifty-five Gastropods, and twelve Lamellibranchs from the Upper Cretaceous, Helvetian, Tortonian, and Sarmatian formations of Hunyad County, Hungary. Presented by Baron Franz Nopcsa, jun.

One Ammonite, two Gastropods, and seven Lamellibranchs from the Upper Cretaceous of Kerak, Moab. Presented by Dr. F. Johnson.

Two Lamellibranchs (*Cyrena borneensis*) from the Eocene (coal beds) of Borneo. Presented by I. A. Stigand, Esq.

A specimen of Oligocene *Limnæa*-limestone of Beauce, showing concretionary structure, from St. Martin's Hill, Etampes. Presented by Monsieur Georges Courty.

One Lamellibranch (*Acesta miocenica*) from the Middle Miocene Asphalt Quarries, Ragusa, Sicily. Presented by Ambroise Paré Brown, Esq.

Thirty marine Gastropoda, and three marine Lamellibranchia from the Upper Pliocene, Kai Twi, North Island, New Zealand. Presented by S. S. Stedman, Esq.

Six Lamellibranchs from the Tertiary of Formosa. Presented by J. D. La Touche, Esq.

Two masses of agglutinated shells (chiefly a small species of *Cardium*), probably of Post-Pliocene age, from Shark's Bay, W. Australia. Presented by W. E. Balston, Esq., F.G.S.

Ninety-five Gastropods and thirty-two Lamellibranchs from marine Post-Pliocene deposits, Port Elizabeth, S. Africa. Presented by Major A. J. Peile.

Five Gastropods and eleven Lamellibranchs from marine Post-Pliocene bed of Ceylon. Presented by A. K. Coomaraswamy, Esq., D.Sc.

Three Gastropods and seven Lamellibranchs from an Upper Tertiary formation at Koetei, Eastern Borneo. Presented by I. A. Stigand, Esq.

Three Tertiary Gastropoda and one Lamellibranch from the Tochi River district, N. India. Presented by Captain E. L. Perry.

Fourteen *Helix nemoralis* from the Holocene, Dag's Bay, Co. Galway. Presented by A. S. Kennard, Esq., F.G.S.

One *Vallonia pulchella* from the Holocene deposits of Walton Heath, Surrey. Presented by R. H. Chandler, Esq.

Arthropoda.—A large slab containing numerous remains of Trilobites from the Upper Cambrian, Shantung, N. China. Presented by the Rev. Samuel Couling.

One Trilobite from the Llandeilo Flags, Llandrindod Wells. Presented by Dr. A. S. Woodward, F.R.S.

Fifteen Trilobites of Cambrian, Ordovician, and Devonian ages from the Province of Caupolican, Bolivia, collected by the donor. Described (and nine specimens figured) by P. Lake, Quart. Journ. Geol. Soc., 1906, pp. 425-430, pl. xl. Presented by Dr. J. W. Evans, F.G.S.

Seven Trilobites from the Palæozoic rocks of Ontario, Canada. Presented by Col. C. C. Grant.

Fourteen Cirripedia from the Silurian of Shropshire. Presented by Col. J. A. Anstice, C.B.

One Trilobite from Thorald, Ontario, Canada. Presented by Samuel Henry Tickell, Esq.

Portion of the cephalon of a Trilobite, *Cybele ella*, from the Black River Limestone, Petite Chaudière, Mechanicsville, Ottawa. Presented by J. E. Narraway, Esq.

Six Trilobites from the Lower Devonian of Mayenne. Presented by F. A. Bather, Esq., D.Sc.

Twenty-one Insects from the Coal Measures of Commentry. Presented by Monsieur Fayol.

The type-specimen of *Griffithides barkei*, from the Culm Measures, Bishopston, Glamorganshire; described and figured by Dr. H. Woodward, Geol. Mag., 1902, pp. 484-487, pl. xx., figs. 14 and 15. Presented by F. Barke, Esq., F.G.S.

One Crustacean from the Upper Cretaceous of Kerak, Moab. Presented by Dr. F. Johnson.

Four Crustacea from the Post-Pliocene of Ceylon. Presented by A. K. Coomaraswamy, Esq., D.Sc.

Echinoderma.—Thirty fragments of *Blastoidocrinus carchariedens* from the Chazy Limestone, Valcour Island, Lake Champlain. Presented by Prof. G. H. Hudson.

Thirty-two Cystidea (*Eocystis*, *Trochocystis*, &c.) from Upper Acadian of Coulouma, Herault. Presented by Monsieur Jean Miquel.

Twenty-three Crinoids from the Niagara Group of Decatur Co., Tennessee, namely, two *Coccoocrinus bacca* and twenty-one *Talarocrinus*. Presented by the Hon. Frank Springer.

Forty-six Crinoidea from the Silurian of Shropshire. Presented by Col. J. A. Anstice, C.B.

A plaster cast of the type-specimen of the Blastoid *Pentremites maccalliei*. Presented by the Director, U.S. National Museum, Washington.

A Crinoid, *Thylacocrinus*, from the Lower Devonian of Mayenne, and eight Crinoid remains from the Carboniferous Limestone, Coniston Cold, Skipton. Presented by F. A. Bather, Esq., D.Sc.

Nine Crinoid columnals (*Entrochus insignis*) from the Trias, near Kotel, Bulgaria. Presented by Dr. P. Bakalow.

Seventy stem-fragments of *Isocrinus jurensis*, and one rock with the remains of *Isocrinus* sp. from the Middle Lias, Shuckburgh, Warwickshire. Presented by Miss Caroline Shuckburgh.

One Echinoid, *Infulaster excentricus*, from the Chalk of *Holaster planus* zone at Great Limber, Lincolnshire, noticed by the donor in Geol. Mag., April 1904, p. 175. Presented by Arthur Burnet, Esq.

Thirteen irregular Echinoids from various zones of the English Chalk. Presented by A. W. Rowe, Esq., M.B.

Eleven Echinoderms from the Upper Chalk (zone of *B. mucronata*) and sixty miscellaneous Chalk Echinoderms from Rügen. Presented by Frau Agnes Laur.

Four plaster casts of Cretaceous Echinoids described by Desor (two *Echinoconus abbreviatus*, one *Galerites conica*, and one *Galerites globulus*). Presented by the Director, Museum of Natural History, Geneva.

Two Upper Cretaceous Echinoids from Kerak, Moab. Presented by Dr. F. Johnson.

One Echinoid, *Cidaris cretosa*, from the Upper Chalk (zone of *Micraster coranguinum*), St. Margaret's Bay, near Dover. Presented by Dr. Felix Oswald.

Two Spatangoid Echinoids, from the Middle Eocene, Quasr-el-Sagha, Fayum, Egypt. Presented by Baron Franz Nopcsa, junr.

One Echinoid from an Upper Tertiary formation at Koeti, Eastern Borneo. Presented by I. A. Stigand, Esq.

Brachiopoda.—One Brachiopod from the Skiddaw Slates, near Keswick. Presented by Miss Esther Christopherson.

Twenty-two Brachiopoda from the Palæozoic rocks of Ontario, Canada. Presented by Col. C. C. Grant.

Three hundred and seventy Brachiopoda from the Silurian of Shropshire. Presented by Col. J. A. Anstice, C.B.

Forty-two Brachiopods from the Lower Devonian of Mayenne; twenty Brachiopods from the Devonian of Ferques, Boulonnais; ten Brachiopods from the Carboniferous Limestone of Skipton; and six Brachiopods from the Jurassic of Calvados. Presented by F. A. Bather, Esq., D.Sc.

Two Brachiopods from the Muschelkalk of Vittel (Vosges), France. Presented by B. B. Woodward, Esq., F.L.S.

Two Brachiopods from the Upper Chalk (zone of *B. mucronata*) of Rügen. Presented by Frau Agnes Laur.

Nine Brachiopods from the Chalk of Surrey, namely, six *Terebratula*, one *Terebratulina*, and two *Rhynchonella*; six Brachiopods from the Upper Chalk (zone of *M. cor-testudinarium*) near Whyteleafe, Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

One Brachiopod, *Magas pumilus*, from the Upper Chalk (zone of *M. coranguinum*), Selsdon Road Station, Croydon. Presented by Laurence Riley, Esq.

Three Brachiopods (internal casts of *Terebratula*) from Lower Drift (probably derived from the zone of *Micraster coranguinum*) near Gillingham. Presented by W. Gamble, Esq.

Pieces of shale containing *Lingulæ*, probably of Cretaceous age, from Abu Rahal, E. of Édfu on the Nile, Egypt. Presented by the Geological Survey of Egypt.

One Brachiopod in a limestone from the Tochi River district, North India. Presented by Captain E. L. Perry.

Vermes.—Two worms from the Palæozoic rocks of Ontario, Canada. Presented by Col. C. C. Grant.

Two specimens of supposed Annelid tracks (*Nereites*) from the grit beds below the Millstone Grit, Wick-in-Abson, Gloucestershire. Presented by W. H. Wicks, Esq.

Five rock specimens containing Annelid-tubes, described as *Torlessia mackayi* by Dr. F. A. Bather, Geol. Mag. 1905, p. 537, probably of Lower Jurassic age; from various localities in New Zealand. Presented by H.M.S. "Discovery."

Two specimens of *Serpula turbinella* from the Upper Chalk, Newburn, near Calbourne, Isle of Wight. Presented by C. Davies Sherborn, Esq., F.G.S.

Numerous Annelida from the Chalk of Rügen. Presented by Frau Agnes Laur.

One recent Annelid from Ceylon. Presented by A. K. Coomaraswamy, Esq., D.Sc.

Polyzoa.—Eleven Polyzoa from the Palæozoic rocks of Ontario, Canada. Presented by Col. C. C. Grant.

One Polyzoan from the Silurian of Shropshire. Presented by Col. J. A. Anstice, C.B.

A slab with the Polyzoan *Rhabdomeson*, from the Cayton Gill beds (Middle Millstone Grits of Hampsthwaite, Yorkshire). Presented by E. Hawkesworth, Esq.

A piece of Polyzoan bed, Lower Carboniferous, Failand, near Bristol. Presented by W. H. Wicks, Esq.

Three Polyzoa from the Lower Greensand (*Perna* bed), Sandown, Isle of Wight. Presented by Col. L. Worthington Wilmer.

Portions of a Polyzoan, *Entalophora ramosissima*, from the Upper Greensand, Haddon Hill, Charmouth, Dorset. Presented by J. J. Lister, Esq., F.R.S.

Polyzoa from the Upper Chalk of Rügen. Presented by Frau Agnes Laur.

One *Reptoceritites rowei* from the Upper Chalk (zone of *M. cor-testudinarium*). Middle Assendon, near Henley-on-Thames. Presented by Osborne White, Esq., F.G.S.

Three *Membranipora* from the Chalk (zone of *H. planus*), Borstal Manor, Kent. Presented by W. Gamble, Esq.

Three microscope slides of Polyzoa from the Chalk (zone of *M. cor-anguinum*), Loudwater, Bucks. Presented by Ll. Treacher, Esq., F.G.S.

Coelentera.—Thirteen Graptolites (including two figured specimens) from the Skiddaw Slates, near Keswick. Presented by Miss Esther Christopherson.

Twelve Graptolites of Arenig age from Rio Coranhuata and Rio de Amantala, Bolivia, collected by the donor. Described by Miss E. M. R. Wood, Quart. Journ. Geol. Soc., 1906, pp. 431, 432. Presented by Dr. J. W. Evans, F.G.S.

Three Corals from the Palæozoic rocks of Ontario, Canada. Presented by Col. C. C. Grant.

Three Corals from the Silurian of Shropshire. Presented by Col. J. Anstice, C.B.

Seven Corals (*Favosites*, *Chaetetes*) from the Lower Devonian of Mayenne. Presented by F. A. Bather, Esq. D.Sc.

Three Corals (*Cystiphyllum*) from the Middle Devonian, Couvianian, of Land's End Quarry, S. of Torquay, S. Devon. Presented by A. J. Jukes-Browne, Esq., F.G.S.

Seven pieces of *Lithostrotion* from the Carboniferous Limestone of Ingleton, Yorkshire. Presented by F. A. Bather, D.Sc.

Nine Corals (*Coelosmilia*) from the Upper Chalk of Rügen. Presented by Frau Agnes Laur.

Two Actinozoa from Hunyad County, Hungary. Presented by Baron Franz Nopcsa, junr.

Thirteen specimens of the Hydrozoan, *Kerunia cornuta*, from the Upper Eocene, Fayum, Egypt. Presented by Dr. C. W. Andrews, F.R.S.

Twelve Actinozoa from a fossiliferous limestone from the Tochi River district, N. India. Presented by Captain E. L. Perry.

Six Corals from an Upper Tertiary formation of Koetei, Eastern Borneo. Presented by I. A. Stigand, Esq.

Porifera.—One sponge from the Palæozoic rocks of Ontario, Canada. Presented by Col. C. C. Grant.

One *Siphonia* from the Cowstone beds, Upper Greensand, Charmouth, Dorset. Presented by Dr. G. Schulze.

Five *Porosphæra* from the Upper Chalk (zone of *Marsupites*), Surrey. Presented by Messrs. T. H. Withers and C. P. Chatwin.

Sponges from the Upper Chalk of Rügen. Presented by Frau Agnes Laur.

One sponge (*Clione cretacea*) boring *Inoceramus* from the Upper Chalk, zone of *M. cor-anguinum*, near Gillingham, Kent. Presented by W. Gamble, Esq.

A sponge in limestone from the Tochi River district, N. India. Presented by Captain E. L. Perry.

Protozoa.—A piece of Radiolarian Chert from Mullion Island, Cornwall. Presented by Howard Fox, Esq., F.G.S.

One Cretaceous Foraminifer from Hunyad County, Hungary. Presented by Baron Franz Nopcsa, jun.

Four Foraminifera (*Nummulites*, &c.) from a limestone from the Tochi River district, N. India. Presented by Captain E. L. Perry.

A piece of Tertiary Orbitoidal limestone from Balek Papan, Eastern Borneo. Presented by I. A. Stigand, Esq.

Plantæ.—One plant from the Silurian of Ontario, Canada. Presented by Colonel C. C. Grant.

Two fossils, probably plant-remains, associated with the *Glossopteris* flora in a sandstone about three miles from Johannesburg, S. Africa. Presented by George H. Preston, Esq.

Three plants of Jurassic age from Singapore, described by R. B. Newton, *Geol. Mag.*, 1906, p. 487, pl. xxv. Presented by John B. Scrivenor, Esq., F.G.S.

Two plants of Jurassic age from Singapore, described by R. B. Newton, *Geol. Mag.*, 1906, p. 487, pl. xxv. Presented by Dr. R. Hanitsch.

A coal-ironstone nodule containing dicotyledonous leaves, from the Eocene coal-beds of Koetei, Borneo. Presented by I. A. Stigand, Esq.

Two pieces of travertine containing leaves (*Ficus* sp.) from a Pleistocene formation, two miles from Sheikh, Golio Mts., Somaliland. Presented by Lieut. Frederick Reginald Burnside.

Problematical Fossils.—A piece of chalk-flint containing a problematical fossil. Presented by the Rev. R. Ashington Bullen, F.G.S.

Rock Specimens.—A piece of contorted schist from the Hardanger Fjord, Norway. Presented by Walter Child, Esq., A.R.S.M.

Fragment of a faceted and striated boulder of quartzite, collected by Dr. H. Warth in the Carboniferous boulder-bed of the Punjab Salt Range. Presented by Mrs. Blanford.

Two pieces of fossiliferous limestone from Kerak, Moab. Presented by Dr. F. Johnson.

A collection of fossiliferous nodules of Tertiary age from the Mekran coast, N.W. India. Presented by F. W. Townsend, Esq.

B.—By Purchase.

Mammalia.—Forty remains of a pigmy elephant, and of *Elephas meridionalis* from the caverns of Crete, collected by Miss D. M. A. Bate.

The astragalus of a ground sloth from Argentina.

The skull and mandible of *Sus* and other Mammalian remains from the Lower Pliocene, Concud, Spain.

Thirty bones of *Lynx* from Cales Dale Cavern, Derbyshire, described by W. Storrs Fox, Proc. Zool. Soc., 1906, vol. i., p. 65, text-fig. 26.

Reptilia.—Two slabs of footprints from the Keuper, Storeton, Cheshire.

A skeleton of *Ichthyosaurus* from the Lower Lias, Somersetshire, containing embryo, described by Dr. Chaning Pearce in Ann. and Mag. Nat. Hist., vol. xvii. (1846), pp. 44-46.

A skull of *Ichthyosaurus* from the Lower Lias, Charmouth, Dorset, showing the remains of skin.

A portion of skull of *Petrosuchus levidens*, a shell of *Pleurosternum*, a slab of scutes of *Goniopholis*, and one Chelonian costal bone, from the Purbeck beds, Swanage.

A collection of reptilian remains, chiefly Dinosaurian, from the Upper Cretaceous, Transylvania, including the type-skull of *Limnosaurus transylvanicus* and remains of *Mochlodon*, described by Baron Nopcsa in Denkschr. Akad. Wiss. Wien, 1900-02-04.

A mandible of *Coniasaurus crassidens* from the English Chalk.

A skull of *Pteranodon* from the Chalk of Kansas, discovered by C. H. Sternberg.

A Pterodactyl bone from the Gault of Folkestone.

Pisces.—A specimen of *Wardichthys cyclosoma* from the Lower Carboniferous of N. Berwick.

Fifteen vertebrate remains from the Coal Measures, Northumberland, some described by T. P. Barkas, "Coal Measure Palæontology."

One *Pholidophorus* from the Lower Lias, Charmouth, Dorset.

Seven Ganoid fishes from the Jurassic, S. Maria de Meya, Lerida, Spain.

Two fish-teeth from the Lower Cretaceous, Potton, Bedfordshire.

A portion of a fish-skull, from the Gault, Folkestone.

Fins of *Protosphyræna*, two skulls of *Protosphyræna*, one Chimaeroid fin-spine, two groups of teeth of *Ptychodus*, two remains of *Corax*, and one *Lamna* from the Chalk of Kansas, collected by C. H. Sternberg.

A jaw of *Ptychodus decurrens*, two groups of teeth of *Ptychodus*, and five other fish-remains from the English Chalk.

Mollusca.—Two Cephalopoda from the Ordovician of Bohemia.

Sixty-seven Cephalopoda from the Trias of Sicily.

Seven hundred invertebrate fossils, chiefly Cephalopoda from the Middle Trias of Bosnia (Hawelka collection).

One *Nautilus intermedius*, one polished section of *Nautilus striatus*, and one body of a Belemnite, from the Lower Lias of Charmouth, Dorset.

Six Cephalopoda from the Jurassic of East Africa.

One *Nautilus farringtonensis* from the Lower Cretaceous of Potton, Bedfordshire.

Two Cephalopoda from the Cretaceous of Bohemia.

One *Crioceras spinosissimum* from the Uitenhage series, S. Africa.

Five Ammonites from the English Chalk.

Lower Cretaceous Cephalopoda and Lamellibranchs from Germany.

Eleven Cephalopoda, seventy Gastropoda, and forty-six Lamellibranchia (Cretaceous, five Jurassic Cephalopoda, and four Palæozoic Cephalopoda).

Mollusca from the Chalk of Rügen.

The J. D. Sainter Collection of Pleistocene Marine Shells from the Glacial Drift of Macclesfield, described by R. D. Darbishire in Mem. Lit. and Phil. Soc. Manch. [3], vol. iii (1865), pp. 56-66.

Arthropoda.—Eight *Anthrapalæmon etheridgei* from the Lower Carboniferous of N. Berwick.

Echinoderma.—One *Botryocrinus pinnulatus*, from the Wenlock Limestone, Dudley, described by F. A. Bather, Ann. Mag. Nat. Hist., March, 1892, p. 192.

One Cystid and one Cretaceous Echinoid.

Two slabs of *Pentacrinus leuthardti*, and one *Ophiomusium ferrugineum* from the Bathonian near Liestal, Switzerland.

Micraster cor-bovis from the zone of *Holaster planus*, Borstal Manor, Kent.

Crinoids from the Chalk of Rügen.

A hundred invertebrate fossils, chiefly Echinoids, from the Thomas Wright Collection.

Brachiopoda.—A specimen of *Acanthothyris spinosa*, from the Jurassic of France.

Brachiopoda from the Chalk of Rügen.

Vermes.—Worms from the Chalk of Rügen.

Polyzoa.—Polyzoa from the Chalk of Rügen.

One hundred and thirty-four micro-organisms, chiefly Polyzoa, from the English Chalk.

Coelentera.—One *Buthograptus laxus* from the Upper Llandeilo, Hartfell Spa.

Two Corals from the Corallian of Ringstead, Weymouth.

Porifera.—Two Cretaceous Sponges from Farringdon and from Haldon Hill.

Various Invertebrata.—A hundred and seventy-five Invertebrata from the Post-Pliocene, Pliocene, Cretaceous, and Jurassic rocks of the Alpes Maritimes.

Five problematical fossils from the Kimmeridge Clay, Weymouth.

Seventy-three Invertebrata, chiefly from the London Clay.

Plantæ.—Fifty-two microscope slides of Carboniferous Plants, prepared by J. Lomax.

C.—By Exchange.

Mammalia.—Plaster cast of skeleton of *Machærodus neogæus* from Pampa Formation, Buenos Aires. From National Museum, Buenos Aires.

Ten plaster casts of feet of ancestral horses. From American Museum of Natural History, New York.

Three polished sections of Cetacean teeth and one section of rib from Red Crag. From the Surveyors' Institution.

Reptilia.—Plaster model of the skeleton of *Triceratops*, from Upper Cretaceous, Wyoming. From U.S. National Museum, Washington.

Pisces.—Plaster casts of *Ichthyodectes marathonsis* from Lower Cretaceous, Central Queensland, and *Ganorhynchus susmilchi* from Devonian, New South Wales. From Australian Museum, Sydney.

Forty-six teeth and spines of Elasmobranch fishes from Carboniferous Limestone, Tournai, Belgium. From Monsieur A. Piret.

Ten ganoid fishes (*Colobodus*, *Dapedius*, *Spaniolepis*, *Heterolepidotus*, and *Ophiopsis*) from the Upper Trias of Hallein, Austria. From K. K. montanistische Hochschule, Leoben.

Mollusca.—Ordovician and Triassic Cephalopoda from Germany. From Mr. E. Mascke.

Seventeen plaster casts of Ammonites from the Spiti Shales, Himalaya. From University of Vienna.

A Carboniferous *Coelonautilus*; a Kimmeridgian *Ostrea*; three Ammonites and a Belemnite from Jurassic, Himalaya. From the Surveyors' Institution.

Echinoderma.—Crinoid columnals from Jurassic, Himalaya. From the Surveyors' Institution.

Plaster casts of type specimens of *Plagiopygus daradensis* and *Galerites abbreviata*. From National Museum of Natural History, Paris.

Brachiopoda. — Eighteen Devonian Brachiopoda from Germany. From Senckenberg Museum, Frankfurt.

Three Jurassic Brachiopoda from the Himalaya. From the Surveyors' Institution.

Plantæ.—A transverse section of stem of *Lepidodendron macconochiei*. From Mr. R. Kidston, F.R.S.

The total acquisitions are as follows:—

A.—VERTEBRATA :					
By Donation	-	-	-	-	610
„ Purchase	-	-	-	-	274
„ Exchange	-	-	-	-	74
				—	958
B.—INVERTEBRATA :					
By Donation	-	-	-	-	1,639
„ Purchase	-	-	-	-	3,016
„ Exchange	-	-	-	-	160
				—	4,815
C.—PLANTÆ :					
By Donation	-	-	-	-	11
„ Purchase	-	-	-	-	52
„ Exchange	-	-	-	-	1
				—	64
D.—ROCK SPECIMENS :					
By Donation	-	-	-	-	2
				—	2
TOTAL Acquisitions for 1906 =					<u>5,839</u>

VIII.—*Visitors and Students.*

The number of visits paid to the Department by students and other persons for the purpose of consultation or study during 1906 was 4,171.

IX.—*Lectures and Demonstrations.*

Nine parties were received in the Galleries of the Department of Geology, and demonstrations were given as follows:—

January 27.—The Regent Street Polytechnic Natural History Society (30 members); by Dr. Andrews.

February 17.—The Battersea Field Club (10 members); by Dr. Bather.

March 10.—The Geologists' Association (51 members); by Dr. Woodward.

March 24.—The West Kent Natural History, Microscopical, and Photographic Society (23 members); by Dr. Woodward.

April 21.—The Ealing Scientific and Microscopical Society (20 members); by Dr. Woodward.

April 28.—The Hertfordshire Natural History Society (12 members); by Dr. Woodward.

July 25.—The Iron and Steel Institute (20 members); by Dr. Woodward.

November 10.—The Selborne Society (19 members); by Dr. Woodward.

December 15.—The Regent Street Polytechnic Natural History Society (26 members); by Dr. Andrews.

Arthur Smith Woodward.

DEPARTMENT OF MINERALOGY.

Research.

In the course of the systematic crystallographic and chemical investigation of the Mineral Collection during the past year, the morphological and optical examination of the new red silver minerals from the Binnenthal has been continued, crystals of zirkelite and baddeleyite from Ceylon and of ilmenite from Brazil have been measured and described, and a new mineral from Italy containing tantalum, niobium, and titanium has been analysed. Collections of minerals from German East Africa, Bolivia, and Spain have also been examined and described.

Crystallographic measurements have been incidentally made on various other species, including apatite, atacamite, calamine, caracolite, chrysoberyl, corundum, dyscrasite, hausmannite, marrite, mispickel, phosgenite, prehnite, quartz, vivianite, and zircon.

The whole of the collection of faceted gem-stones has been reviewed, and the refractivity, double refraction, pleochroism, and dispersion of many of them have been studied.

A diagram has been drawn in order to facilitate the determination of refractive indices by the method of minimum deviation.

The petrographical and chemical investigation of the rock-specimens collected by the "Discovery" Antarctic Expedition has been completed, in which connexion seven quantitative chemical analyses of rocks have been made, the series of over 300 thin slices has been re-examined, and a detailed report has been prepared. The manuscript of Mr. H. T. Ferrar's report on the Field-geology has also been revised. The work of preparing for the printer these two reports, which are illustrated by 72 text figures and 10 plates, has been completed.

In the chemical laboratory complete quantitative analyses have been made of seven rock-specimens from Antarctic regions, a new mineral containing rare earths from Italy, a specimen of binnite from the Binnenthal containing a large percentage of zinc, and a specimen of semseyite from Bolivia. Further many doubtful minerals have been qualitatively analysed.

Publications.

New editions of the "Introduction to the Study of Minerals" and of the "Guide to the Mineral Gallery" have been completed and passed through the press.

The following papers, relative to specimens in the collection, or to mineralogical theory and method, have been published in the "Mineralogical Magazine and Journal of the Mineralogical Society" or the "Philosophical Magazine," by members of the staff of the Department.

Dundasite from North Wales : by G. T. Prior, M.A., D.SC., F.G.S.

Phenacite and other minerals from German East Africa : by L. J. Spencer, M.A., F.G.S.

Paratacamite, a new oxychloride of copper : by G. F. Herbert Smith, M.A., F.G.S., with a chemical analysis by G. T. Prior, M.A., D.SC., F.G.S.

On the method of minimum deviation for the determination of refractive indices, with a diagram : by G. F. Herbert Smith, M.A., F.G.S.

The general determination of the optical constants of a crystal by means of refraction through a prism : by G. F. Herbert Smith, M.A., F.G.S.

Miscellaneous.

The preparation of slip-catalogues of species, the re-labelling of the specimens, and the entry in the General Register of old specimens hitherto bearing numbers referring only to special catalogues have been continued. For the native elements contained in cases 1 and 2 this work has now been completed, and the exhibited specimens have been entirely re-arranged in the case-tops on re-polished trays. In this connexion the specimens of native iron from Greenland have been weighed, identified, and labelled. A slip index of donations acquired previous to 1837 (when the General Register was commenced) has also been prepared.

The reserve collections of pyrites, marcasite, molybdenite, stibnite, copper-pyrites, fluor, albite, petalite, anglesite, gypsum, and barytes have been extended and re-arranged in seventeen cubes of new drawers, and in the old drawers thus set free other species have been expanded.

Several sets of shelves in the chemical laboratory have been converted into cupboards with glazed doors, and the large bookcase in the balance-room has been similarly protected.

Numerous specimens sent for identification or brought to the Museum by visitors have been examined and named.

Eighty-six boxes or parcels of mineral specimens have been received, unpacked, and examined ; fifty-eight boxes or parcels have been packed and despatched.

Two hundred and twenty-one thin slices of rocks and seven of meteorites have been prepared.

Departmental Library.

To the Departmental Library have been added continuations of 29 periodicals (in 399 parts), 102 volumes of separate works, 105 pamphlets and parts of works, 2 maps, and 20 mining reports; of these, 9 periodicals (in 122 parts), 11 volumes of separate works, 68 pamphlets, and all the mining reports were acquired by presentation or transfer. All of them, including 699 plates, have been registered and stamped.

Students.

The number of visits recorded as made to the Department for the purposes of consultation or study is 867.

The Gallery being no longer reserved on particular days of the week for use by students, and study-series having been so arranged as to be directly accessible to the public, and so labelled as to render reference to the staff for information thereon almost completely unnecessary, it has become difficult to distinguish, for statistical purposes, "Students" of minerals from ordinary "Visitors," and stress cannot longer be laid on the distinction.

Exchanges.

Exchanges of specimens have been made with Dr. A. Brezina, of Vienna; Dr. L. H. Borgström, of Helsingfors; Mr. A. O. Watkins, of Perth, Western Australia; and Mr. G. T. Holloway, of London.

Accessions.

920 specimens have been acquired, namely:—

438 minerals, 475 rocks, and 7 meteorites. All of them have been registered, numbered, and incorporated with the Collection.

The more important of them are as follows:—

*Minerals.**By Presentation:*

A collection of Japanese minerals, including scorodite, fine crystals of axinite, topaz, hedenbergite, and danburite: by Prof. T. Wada.

Faceted alexandrite, sphene, garnets, opals, and other gem-stones: by E. Hopkins, Esq.

A glass model of the large "Cullinan" diamond: by the Premier (Transvaal) Diamond Mining Co.

Tantalite crystals from Western Australia: by W. M. Foote, Esq.

Cassiterite, amblygonite, and pyrophyllite, from Cáceres, Spain: by G. P. Ashmore, Esq.

Twinned crystals of cinnabar from China: by R. L. Pockock, Esq.

Covellite in fluor, from Cornwall: by H. Bauerman, Esq.

A group of quartz-crystals enclosing tufts of göthite, from Priddy, Mendip Hills: by Spencer G. Perceval, Esq.

Monazite-sand, cassiterite, and crystals of thorianite from Ceylon: by Dr. A. K. Coomaraswamy.

Artificial crystals of gold, and specimens of axinite from Cornwall: by Dr. R. Pearce.

Monazite from La Grave, Oisans, France: by F. N. A. Fleischmann, Esq.

Specimens of sodalite from Dungannon, Canada: by A. Lee, Esq.

Specimens of nickel and cobalt ores from Nipissing District, Canada; by the Canadian Government through R. L. Broadbent, Esq.

By Exchange:

Wolfram and stibiotantalite from Australia.

By Purchase:

A series of rare minerals from the Binnenthal, including baumhauerite, bowmanite, lengenbachite, seligmannite, and trechmannite.

An exceptionally large, clear green crystal of euclase, a large quartz crystal enclosing needles of rutile, twinned crystals of rutile, and fibrous baddeleyite, from Brazil.

A peculiar fibrous variety of astrophyllite with fine crystals of catapleiite, from Greenland.

Magnificent crystals of rubellite, and clear, colourless, doubly terminated crystals of beryl, from California.

An extremely large crystal of monazite, from Tvedestrand, Norway.

A large mass of pitchblende, from Joachimsthal, Bohemia.

A series of specimens from the collection of the late Prof. A. A. Damour: including romeite from Piedmont, hureaulite from Hte. Vienne, crystals of chrysoberyl from Brazil, and plumbogummite from Huelgoat, Brittany.

Fine specimens of mercury minerals from Texas, including montroydite, kleinite, calomel, and eglestonite.

Extremely large crystals of phosgenite, from Sardinia.

Unusually fine twinned crystals of cinnabar, from China.

Fine groups of crystals of cabrerite, from Laurium, Greece.

A large crystal of tantalite, from Western Australia.

A fine crystal of dyscrasite, from Andreasberg, Harz.

The following names added to the Museum List were previously not represented by specimens in the Collection :—

Kallilite, kleinite, kornelite, naegite.

Rocks.

By Presentation :

A small collection of rock-specimens from East Africa (Kilimandjaro, &c.) : by Prof. A. Lacroix.

Pebbles of quartz-porphry from St. Florent, Corsica ; by Dr. C. I. Forsyth Major.

Specimens of volcanic dust and lava from the eruption of Vesuvius in April 1906 : by Prof. W. J. Lewis and by H. Boulton, Esq., M.V.O.

Specimens of blue ground from Kimberley : by J. H. Gardiner, Esq.

Perlitic obsidian from the island of Melos ; by H. D. Acland, Esq.

Spherulitic obsidian from Tescö, Hungary : by W. H. Shrubsole, Esq.

Specimens from Tierra del Fuego : by Capt. R. Crawshay.

By Purchase :

A collection of 385 specimens of rocks from the Simplon Tunnel.

A large polished slab of orbicular gabbro from California.

Specimens of lava and volcanic ash from the eruption of Vesuvius in April 1906.

A collection of rock-specimens from Cornwall and Devon.

Meteorites.

By Presentation :

Caperr, Patagonia ; a slice weighing 256 grams : by the Director of the La Plata Museum, Brazil.

Dokachi, India ; pieces weighing 593½ grams and 28½ grams respectively : by the Director of the Geological Survey of India.

Albuquerque (probably Glorieta Mountain), New Mexico ; a piece weighing 1,000 grams : by Dr. R. Pearce.

By Exchange :

Mern, Denmark ; fell August 29, 1878 ; a fragment weighing 39 grams.

Thin slices of Hvittis, Bjurböle, and Shelburne.

By Purchase:

Oficina Angelos, Chili; a piece weighing 1,480 grams.

Ilimaes, Desert of Atacama; a slice weighing 266½ grams (perhaps identical with that of Imilac).

Estacado, Texas; found in 1902: a slice weighing 17,103 grams.

Those Meteorites of which the names are italicized belong to falls hitherto unrepresented in the Museum Collection.

L. Fletcher.

DEPARTMENT OF BOTANY.

I.—*Arrangement and Conservation.*

During the past year 23,525 specimens, consisting of 17,475 Flowering Plants, 1,880 Vascular Cryptogams, 128 Mosses, 36 Hepatics, 2,464 Lichens, 370 Algæ, and 1,172 Fungi, have been mounted and incorporated with the Herbarium.

Flowering Plants.—Collections have been mounted and incorporated as follows:—Dr. Hassler's collection from Paraguay (in part), Rev. Urban Faurie's collection from Japan, Korea, and Formosa, (in part), Mr. Forbes's collection, mainly from China, collections from West Australia by Drummond, from Tasmania by Gunn and Milligan, and from South Africa by Dr. Schlechter and Dr. Penther. Collections from Rhodesia by Mr. Eyles, Mr. Swynnerton, and Miss Gibbs, from Uganda by Dr. Bagshawe, from Somaliland by Mr. Bury, and from the African Lakes by Dr. W. C. Cunningham have been wholly or in part named, mounted, and incorporated. Dr. Patrick Russell's Aleppo plants and the collections made by Banks and Solander in Polynesia and New Zealand have been in part identified and collated with recent literature.

In the division Polypetalæ the South African collections of Zeyher have been incorporated, and additions have also been made by incorporation especially in the orders Caryophyllaceæ (South African specimens), Meliaceæ, Burseraceæ, Guttiferæ (specimens from Herb. Miers), and Cactaceæ. The genera *Mesembryanthemum*, *Drosera*, *Hirca*, and *Mascagnia* have been re-arranged, and the North American Saxifragaceæ have been revised by recent monographs. Work of revision has also been done on the orders Halorageæ, Sarraceniaceæ, and the Indian species of *Nymphaea*; and the genus *Bersama* has been monographed. In the division Gamopetalæ the order Primulaceæ has been re-arranged according to recent monographs, and work of identification and revision has been done on Compositæ and Acanthaceæ from Madagascar. Collections made in Uganda by Dr. Bagshawe and in Rhodesia by Mr. Eyles have been worked out and the novelties described and published.

In the division Apetalæ work of incorporation has been done in the orders Euphorbiaceæ and Urticaceæ, and work of revision and arrangement on the Urticaceæ of tropical Africa and on the orders Podostemaceæ and Nepenthaceæ.

In the Monocotyledons work of incorporation has been done chiefly in the orders Orchidaceæ, Cyperaceæ, and Gramineæ. Work of revision has been done on the Rhodesian Liliaceæ, and work of revision and re-arrangement in

several genera of Orchids, and the section Pothoideæ of the order Araceæ.

In the Gymnosperms various collections have been incorporated, and work of revision has been done on the genera *Widdringtonia*, *Callitris*, and others.

Some time has been devoted to sorting and selecting, preparatory to incorporation, an accumulation of collections, chiefly Australian; and to the arrangement of Chinese and South African duplicates for purposes of exchange.

Ferns.—The plants of several collections have been laid out and incorporated in the general series, including collections from West China (Wilson), Paraguay (Hassler), Central America and West Indies (various), and Wirtgen's critically named forms of Equisetaceæ. Outstanding material of various genera of the Gleicheniaceæ, Cyatheæ, Dicksoniæ, Hymenophylleæ, and of *Pteris* and *Selaginella* has been incorporated. The genera *Anemia* and *Asplenium* (in part) have been revised and re-arranged.

Bryophyta.—In the Mosses the genus *Ptychomitrium* and some of the genera of Hookeriæ, Entodontæ, and Bryeæ have been partly revised. In the Hepatics most of the British genera have been revised and the collections of Davies and Pearson arranged according to Pearson's Monograph.

Algæ.—The Codiaceæ and the genera *Gelidium*, *Pterocladia*, and *Chondrus* have been revised and re-arranged, as have also in part the genera *Dictyota*, *Padina*, *Laminaria*, *Macrocystis*, *Sarcophycus*, and others. The Chlorophyceæ of Ferguson's Ceylon Algæ have been revised and re-arranged. The original drawings and plates of Sowerby's English Botany have been re-arranged. The prepared diatomaceous deposits of the Comber collection have been put in order and the MSS. arranged and collated with the microscopic slides. The general series of microscopic slides has been examined and repaired where necessary. Collections from New South Wales and from the Indian Ocean have been determined, and several collections of British seaweeds have been named. The outstanding material of the Characeæ has been in part determined.

Fungi.—The large collection of the late William Phillips has been purchased, and all the British specimens belonging to the Basidiomycetes, Uredineæ, Pyrenomycetes, Sphærospideæ, Hyphomycetes, and Phycomycetes have been separated and incorporated in the British series. The North American Uredineæ of the published sets of Ellis and Everhart, Arthur and Holway, Cummings, Williams and Seymour, Griffiths, Kellerman and Swingle, Seymour and Earle, have been incorporated in the general series. The British Uredineæ have been further revised, re-arranged, and supplemented.

Lichens.—Large collections of these plants, acquired from Crombie and Phillips, have undergone a preliminary sorting and labelling and, together with the herbaria of Davies, Piggot, and others, are gradually being examined and incorporated in the British series. Special attention has been given to the revision and re-arrangement of the large genus *Lecidea*. The pamphlets and MSS. received with the Crombie collection have been put in order. The original drawings and plates of Sowerby's English Botany have been re-arranged. The extra-British lichens of the Phillips collection have been put in order preparatory to incorporation.

Exhibition Series.—Representations of the Schizomycetes and Characeæ have been added to the general systematic series, the Cycads and Bennettiteæ have been in part re-arranged, and various specimens have been added in different groups, including a fine series of fruits of *Lodoicea sechellarum* (Double Coco-nut), stems of a Tree-fern illustrating structure, and a fine specimen of a new species of Algæ, *Lessonia grandifolia*, from the coast of Victoria-land in the Antarctic circle. A series of British Characeæ has been added to the exhibition of British plants, and progress has been made with the exhibition of a series of British Lichens, and in the selection of material for an exhibition of British Hepatics; specimens with drawings of a British hybrid *Ophrys* have been exhibited. A guide to the case illustrating the History of Classification has been prepared and printed, and a Catalogue of the British Seed-plants has been prepared. Considerable progress has been made in the exhibition illustrating British trees in the Central Hall; and some time has been devoted to the completion of the case illustrating the flower in the group Dicotyledons. A series of historical events with dates has been painted on the large section of the "Big Tree" (*Sequoia gigantea*).

II.—Publications.

The following publications relating to the collections and work of the Department have appeared:—

Guide to Books and Portraits illustrating the History of Plant Classification exhibited in the Department of Botany. By Dr. Rendle. Official publication.

New Monocotyledons from China and Tibet. By Dr. Rendle. (Journal of Botany.)

Widdringtonia in South Tropical Africa. By Dr. Rendle. (Journal of Botany.)

A new *Celtis* from Tropical Africa. By Dr. Rendle. (Journal of Botany.)

International Rules of Botanical Nomenclature adopted by the Botanical Congress at Vienna, 1905. English edition by Dr. Rendle.

Note on *Farsetia stylosa*. By Mr. Britten. (Journal of Botany.)

Hardwicke's Botanical Drawings. By Mr. Britten. (Journal of Botany.)

Silene bella E. D. Clarke. By Mr. Britten. (Journal of Botany.)

"Botany in England." By Mr. Britten. (Journal of Botany.)

British Forms of *Helosciadium nodiflorum* Koch. By Mr. Baker (with Rev. H. J. Riddelsdell). (Journal of Botany.)

African Indigoferas. By Mr. Baker. (Journal of Botany.)

New Rubiaceæ from British East Africa II. By Mr. Spencer Moore. (Journal of Botany.)

New or rare Gamopetalæ from Tropical Africa. By Mr. Spencer Moore. (Journal of Botany.)

Uganda Gamopetalæ from Dr. Bagshawe. By Mr. Spencer Moore. (Journal of Botany.)

Sertulum Mascarense. By Mr. Spencer Moore. (Journal of Botany.)

Second Contribution to the Flora of Africa. Rubiaceæ and Compositæ II. By Mr. Spencer Moore. (Journal of Linnean Society.)

The Dates of Hooker's "British Jungermanniæ" and "Musci Exotici." By Mr. Gepp. (Journal of Botany.)

Some Marine Algæ from New South Wales. By Mr. and Mrs. Gepp. (Journal of Botany.)

A new species of *Lessonia*. By Mr. and Mrs. Gepp. (Journal of Botany.)

Muscineæ and Algæ in Mr. H. N. Ridley's "An Expedition to Christmas Island." By Mr. and Mrs. Gepp. (Journal Straits Branch Royal Asiatic Society.)

British Cœnogoniaceæ. By Miss A. Lorrain Smith. (Journal of Botany.)

A Contribution to the Botany of Southern Rhodesia. By Miss L. S. Gibbs (including determinations and descriptions by Dr. Rendle, Mr. E. G. Baker, and Mr. Spencer Moore). (Journal of Linnean Society.)

III.—*Exchanges of Duplicates.*

Exchanges have been effected with the Royal Botanic Museum, Berlin; the Hofmuseum, Vienna; the Botanic Museum, Zurich; the Botanic Gardens, Sydney; the Botanic Gardens, Singapore; the Bureau of Agriculture, Manila; the Oakes Ames Botanical Laboratory, Massachusetts, U.S.A.; and Dr. Harry Bolus of Cape Town.

IV.—*Loan of Specimens.*

Specimens, mainly undetermined, have been lent as follows:—130 specimens of Characeæ to Henry Groves, Esq.; 14 specimens of *Potamogeton*, chiefly Japanese, to Arthur Bennett, Esq.; one specimen of Triuridaceæ to W. Botting Hemsley, Esq., of the Royal Gardens, Kew; one specimen of *Osmundites* from New Zealand to R. Kidston, Esq.; and a drawing of *Gossypium* to Sir George Watt.

The specimens have been duly returned in good condition, accompanied by determinations and valuable notes.

V.—*Departmental Library.*

The additions during the past year have been, by donation, 72 volumes, 339 pamphlets; by purchase, 120 volumes, 2 pamphlets—in all 192 volumes, 341 pamphlets. These include 18 periodicals, in 150 parts, presented, and 73 periodicals, in 629 parts, purchased—in all 91 periodicals in 779 parts.

137 volumes have been bound, and 8 volumes of plates illustrating Cook's first voyage have been re-arranged and re-bound. The classification and arrangement for binding of the large collection of notes and drawings by R. A. Salisbury has been nearly completed, and original drawings of several collections have been written up. A collection of MSS. by Robert Brown and other botanists and collectors of the early nineteenth century has been sorted and arranged.

VI.—*Acquisitions.*

The following additions have been made to the collections by presentation:—100 Phanerogams from the Director of the Royal Botanic Gardens, Sibpur, Calcutta; fruits of *Lodoicea sechellarum*, from J. Stanley Gardiner, Esq.; 468 Phanerogams from Uganda, from Dr. A. G. Bagshawe; specimens illustrating the life-history of *Crocus* for the Public Gallery and a species of *Statice* from E. A. Bowles, Esq.; 20 specimens of *Polygala amarella*, illustrating variation, from J. Cryer, Esq.; 3 Phanerogams from India, from Dr. T. Cooke; 3 specimens of cultivated plants and 3 enlarged photographs, from Hon. Walter Rothschild, M.P.; 126 Phanerogams and 7 Cryptogams from Jamaica, from Dr. N. L. Britton; 109 Phanerogams and 1 Cryptogam from South

Rhodesia, from Miss L. Gibbs; 22 Phanerogams from South Africa and Rhodesia, from H. T. Crosfield, Esq.; 208 Phanerogams from South Rhodesia, from Fred. Eyles, Esq.; 3 cultivated plants from Walter Ledger, Esq.; 6 photographs of fossil fruits of *Najas* and *Zannichellia*, from Clement Reid, Esq.; 7 Phanerogams from Tropical Africa, from Dr. Engler; 10 photographs of Rubber Forests on Amazon, from H. E. Weaver, Esq., M.I.C.E.; 272 Phanerogams, 15 Cryptogams, and 28 Fruits from South Rhodesia, from C. F. M. Swynerton, Esq.; 261 Phanerogams and 7 Cryptogams from Mt. Ruwenzori, collected by Dr. Wollaston, from the subscribers to the Ruwenzori Expedition; 9 Phanerogams from South Europe, from H. Stuart Thompson, Esq.; 3 Phanerogams and 7 Cryptogams from British East Africa, from A. Cholmley, Esq.; 4 specimens of cultivated plants, from T. O'Brien, Esq.; 66 Phanerogams and 4 Cryptogams from Shan States, from S. A. Durie, Esq.; 2 reproduced copies of Roslin's portrait of Linnæus, from W. Carruthers, Esq.; 50 European Lichens, from the Council of the Linnean Society; 47 Japanese Mycetozoa, from K. Minakata; an apochromatic microscope-objective, from Lady Sendall; a large specimen of *Laminaria* from the Eastern Telegraph Company's cable near Gibraltar, from V. K. Cornish, Esq.; 24 Marine Algæ from Sydney, N.S.W., from A. H. Lucas, Esq.; portraits of Elias Fries and J. G. Agardh, from G. Murray, Esq.; Marine Algæ and Mosses from the National Antarctic Expedition; 54 Phanerogams and 9 Cryptogams collected in the Great African Lakes by Dr. W. C. Cunningham, from the Tanganyika Committee through Professor Ray Lankester; and single specimens from Prof. J. B. Farmer, Franklin White, Esq., and Herr Per Dusén.

The additions to the British Herbarium by presentation have been:—7 specimens of *Fumaria* from H. W. Pugsley, Esq.; 220 specimens from Rev. E. S. Marshall; 72 specimens from Rev. H. J. Riddlesdell; 15 specimens from C. E. Salmon, Esq.; 49 specimens from G. C. Druce, Esq.; 18 specimens from A. Bennett, Esq.; 5 specimens from H. Stuart Thompson, Esq.; 29 specimens from Prof. D. Oliver; 80 specimens from Rev. E. F. Linton; 60 species of Marine Algæ from near Dover, from Miss G. E. M. Mitchell; 21 Hepaticæ from Westmoreland, from W. H. Pearson, Esq.; 2 Mosses and a Hepatic from W. R. Sherrin, Esq.; and one or two specimens from W. R. Jeffrey, Esq., W. H. Hammond, Esq., J. W. White, Esq., E. M. Holmes, Esq., A. B. Jackson, Esq., S. S. Buckman, Esq., H. R. Yates, Esq., Arthur Lister, Esq., Miss A. Lorrain Smith, C. P. Hurst, Esq., and Dr. W. H. Lang.

Among the acquisitions by presentation special reference may be made to the Lichen-Herbarium of the late Rev. J. M. Crombie, presented by his widow, and containing about 5,000 British and foreign Lichens, his MSS. and correspondence, and about 30 bound volumes of lichenological pamphlets by Nylander, J. Müller, and other authors.

The following additions have been made by exchange of duplicates:—136 specimens from South Africa from the Botanic Museum, Zurich, through Prof. Hans Schinz; 6 specimens of *Allophylus* from Tropical Africa, through Dr. Engler; 3 *Violas* from Texas and Mexico from the National Museum, Washington, through R. Rathbone, Esq.; 33 Orchids and 97 Cryptogams from the Oakes Ames Botanical Laboratory, North Eastern, Mass., U.S.A.; 384 specimens from California from the University of Pennsylvania, through Prof. John Macfarlane; 240 specimens of Australian plants from J. H. Maiden, Esq.; 96 specimens from North America from the Gray Herbarium, Cambridge, Mass., through Dr. B. L. Robinson; 142 Phanerogams and 4 Cryptogams from South Africa collected by Penther and Krook, also 10 plates by Ferdinand Bauer, and *Kryptogamæ exsiccatae*, Cent. xii, xiii, from the Vienna Hofmuseum, through Dr. A. Zahlbruckner; 249 Phanerogams and 30 Cryptogams from Botanic Gardens, Singapore, through H. N. Ridley, Esq.; 150 Ferns collected in the Philippine Islands by E. P. Copeland, from the Bureau of Agriculture, Manila, through Prof. Elmer D. Merrill.

The principal purchases during the year were:—233 Phanerogams from Gunong Tahan, Pahang, from H. C. Robinson; 200 specimens *Flora Stiriaca Exsiccata*, fasc. 3-6, from Hayek; 233 specimens from West Indies, series III., 1904-5, from A. H. Curtiss; 96 specimens from Somaliland, from G. W. Bury; 828 specimens from South Africa, *Plantæ Schlechterianæ*, from Dr. Loesener; 33 specimens from California, from A. A. Heller; 465 Phanerogams and 70 Cryptogams from Selkirk, from Chas. Shaw; 165 Phanerogams and 39 Cryptogams from Bolivia, collected by Fiebrig, from Dr. R. Pilger; 215 specimens, including 10 Cryptogams, from Siam, collected by Dr. Hosseus, from Dr. Wilms; 1,000 specimens, including 119 Cryptogams, from Yunnan, from Dr. Henry; 763 specimens from Japan, from Rev. U. Faurie; 239 Microphotographs of wood structure, from Williams, Weale, & Co.; 200 specimens *Fl. Carniolica*, Cent. 7 and 8, collected by Paulin; *Gramineæ Exsiccatae* (Fasc. xix, xx), from Kneucker; 50 specimens (*Salicetum Exsiccatum*, Fasc. i.) collected by Toepffer, from Dulau & Co.; 200 specimens (*Batotheca Europæa*, Fasc. i.-iv.) from H. Sudre; "Wooden Rose" from Guatemala, from Rosenberg; 100 Fungi Imperfecti, from Kabát and Bubák; 50 North American Algæ, from Collins, Holden, and Setchell; 150 Micro-Fungi, from Vestergren; 50 Ascomycetous Fungi, from Rehm; 50 Fungi Selecti, from Jaap; 100 Cryptogams of Germany, Austria, and Switzerland, from Migula; 100 North American Fungi, from Bartholomew; 50 Mosses of the Malay Archipelago, from Fleischer; 100 Brazilian Fungi, from Ule; 100 Uredineæ, from Sydow; 170 Cryptogams of N.W. India, from Gollan; 100 Saxon Fungi, from Krieger; 12 prepared British Fungi, from Hartley-Smith; 15 Water-colour Drawings of British Lichens for exhibition, from Highley.

Among the acquisitions by purchase special mention should be made of the Cryptogamic Herbarium of the late William Phillips, containing about 10,000 British and exotic Fungi, 800 Lichens, 53 Algæ, and 3,200 Drawings of Fungi.

VII.—*Demonstrations.*

Demonstrations on the collections have been given by Dr. Rendle to 27 members of the International Hybridisation Conference, August 3rd, and to 11 members of the Ealing Science Society, November 3rd.

VIII.—*Students and Visitors.*

The number of visits to the Department for consultation and research during the year was 2,065. Numerous specimens and small collections have been named by the staff for visitors and correspondents.

A. B. Rendle.



BRITISH MUSEUM.

RETURN to an Order of the Honourable The House of Commons,
dated 18 February 1908 ;—*for*,

COPY “of Account of the INCOME and EXPENDITURE of the BRITISH MUSEUM (SPECIAL TRUST FUNDS) for the Year ending the 31st day of March 1908; and, RETURN of the Number of PERSONS admitted to visit the MUSEUM and the BRITISH MUSEUM (NATURAL HISTORY) in each Year from 1902 to 1907, both Years inclusive; together with a STATEMENT of the PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and an ACCOUNT of OBJECTS added to them in the Year 1907.”

Treasury Chambers, }
30 April 1908. }

C. HOBHOUSE.

(*Mr. Trevelyan.*)

Ordered, by The House of Commons, to be Printed,
30 April 1908.

L O N D O N :
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I.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.			STOCK, 2½% Consols.		
	£.	s.	d.	£.	s.	d.
To BALANCES on the 1st April 1907 - - -	50	15	-	13,156	13	10
- DIVIDENDS received on 13,150 <i>l.</i> 13 <i>s.</i> 10 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by the Earl of Bridgewater, viz.:						
On the 5th April 1907	£.	82	3 10			
,, 5th July 1907	-	82	3 10			
,, 5th October 1907	-	82	3 10			
,, 5th January 1908	-	82	3 10			
				328	15	4
- RENT OF A REAL ESTATE, Whitchurch, bequeathed by the Earl of Bridgewater (less charges of collection, repairs, &c.) -				17	4	8
- NET PROCEEDS OF SALE of land and cottages, part of Whitchurch Estate (Bridgewater Bequest) - - - -				370	7	3
- STOCK purchased as <i>per contra</i> - - -				-		447 10 1
	£.	767	2 3	13,598	3	11

II.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.			STOCK, 2½% Consols.		
	£.	s.	d.	£.	s.	d.
To BALANCES on the 1st April 1907 - - -	305	8	11	2,879	10	7
- DIVIDENDS received on 2,879 <i>l.</i> 10 <i>s.</i> 7 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Lord Farnborough, viz.:						
On the 5th April 1907	£.	17	19 11			
,, 5th July 1907	-	17	19 11			
,, 5th October 1907	-	17	19 11			
,, 5th January 1908	-	17	19 11			
				71	19	8
	£.	377	8 7	2,879	10	7

BRIDGEWATER FUND, from the 1st April 1907 to the 31st March 1908.

	CASH.		STOCK, 2½ % Consols.	
	£.	s. d.	£.	s. d.
BY One Year's SALARY of the Egerton Librarian-	175	- -		
- AMOUNT expended on Fencing, &c., for Whit- church Property - - - -	50	12 5		
- PURCHASE of 447l. 10s. 1d. Stock Consols -	370	7 3		
- BALANCES ON THE 31ST MARCH 1908, carried to Account for 1908-1909 - - -	171	2 7	13,598	3 11
	£.	767 2 3	13,598	3 11

FARNBOROUGH FUND, from the 1st April 1907 to the 31st March 1908.

	CASH.		STOCK, 2½ % Consols.	
	£.	s. d.	£.	s. d.
BY AMOUNT expended on purchase of Manuscript-	251	2 -		
- BALANCES ON THE 31ST MARCH 1908, carried to Account for 1908-1909 - - -	126	6 7	2,879	10 7
	£.	377 8 7	2,879	10 7

III.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
To BALANCES on the 1st April 1907 - - -	52 7 5	5,683 1 6
- DIVIDENDS received on 5,683 <i>l.</i> 1 <i>s.</i> 6 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Dr. George Swiney for Lectures on Geology, viz.:		
On the 5th April 1907 - £. 35 10 4		
" 5th July 1907 - 35 10 4		
" 5th October 1907 - 35 10 4		
" 5th January 1908 - 35 10 4		
	142 1 4	
	£. 194 8 9	5,683 1 6

IV.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
To BALANCE on the 1st April 1907 - - -	—	565 3 9
- DIVIDENDS received on 565 <i>l.</i> 3 <i>s.</i> 9 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Dr. Birch in 1766, for the three Under Librarians of the British Museum, viz.:		
On the 5th April 1907 - £. 3 10 8		
" 5th July 1907 - 3 10 8		
" 5th October 1907 - 3 10 8		
" 5th January 1908 - 3 10 8		
	14 2 8	
	£. 14 2 8	565 3 9

SWINEY FUND, from the 1st April 1907 to the 31st March 1908.

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
BY AMOUNT paid to Prof. J. Cossar Ewart, for Lectures on Geology in 1907 - - -	140 - -	
- BALANCES ON THE 31ST MARCH 1908, carried to Account for 1908-1909 - - -	54 8 9	5,683 1 6
£.	194 8 9	5,683 1 6

the BIRCH FUND, from the 1st April 1907 to the 31st March 1908.

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
BY LEGACY paid to the three Under Librarians of the British Museum, whose offices existed in 1766, viz., the Keepers of the Departments of Printed Books, Manuscripts and Natural History - - -	14 2 8	
- BALANCE ON THE 31ST MARCH 1908, carried to Account for 1908-1909 - - -	-	565 3 9
£.	14 2 8	565 3 9

V.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest and Extension of the Library and Reading-room of the British

	CASH.	LOCAL LOANS STOCK.
	£. s. d.	£. s. d.
To AMOUNT of Local Loans Stock on 1st April 1907 - - - -	—	53,221 5 9
- DIVIDENDS received during the year - - -	1,615 6 9	
- AMOUNT of Local Loans Stock purchased with the Dividends - - - -	—	1,682 13 8
£.	1,615 6 9	54,903 19 5

VI.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest
1st April 1907 to

	CASH.	METROPOLITAN 3½% STOCK.
	£. s. d.	£. s. d.
To AMOUNT of Metropolitan 3½ per cent. Stock on 1st April 1907 - - - -	—	7,558 11 7
- DIVIDENDS received during the year - - -	268 - 1	
- AMOUNT of Metropolitan 3½ per cent. Stock purchased with the Dividends - - - -	—	265 17 -
£.	268 - 1	7,824 8 7

of the late MR. VINCENT STUCKEY LEAN (for the Improvement Museum) from the 1st April 1907 to the 31st March 1908.

	CASH.	LOCAL LOANS STOCK.
	£. s. d.	£. s. d.
BY AMOUNT expended in the purchase of 1,682 <i>l.</i> 13 <i>s.</i> 8 <i>d.</i> Local Loans Stock, Commission, &c. - - - -	1,615 6 9	
- BALANCE OF STOCK ON THE 31ST MARCH 1908 carried to account for 1908-1909 - -	—	54,903 19 5
	£. 1,615 6 9	54,903 19 5

of the late MR. CHARLES DRURY EDWARD FORTNUM from the the 31st March 1908.

	CASH.	METROPOLITAN 3½ % STOCK.
	£. s. d.	£. s. d.
BY AMOUNT expended in the purchase of 265 <i>l.</i> 17 <i>s.</i> - <i>d.</i> Metropolitan 3½ per cent. Stock, Commission, &c. - - - -	268 - 1	
- BALANCE OF STOCK ON THE 31ST MARCH 1908 carried to account for 1908-1909 - -	—	7,824 8 7
	£. 268 - 1	7,824 8 7

E. Maunde Thompson,
Director and Principal Librarian.

VII.—NUMBER OF PERSONS ADMITTED TO VISIT THE BRITISH MUSEUM AND THE BRITISH MUSEUM (NATURAL HISTORY).

A.—PERSONS ADMITTED TO VIEW THE GENERAL COLLECTIONS IN THE BRITISH MUSEUM IN EACH YEAR FROM 1902 TO 1907, BOTH YEARS INCLUSIVE.

	1902.		1903.		1904.		1905.		1906.		1907.	
	Weekday.	Sunday.	Weekday.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.
January	60,756	2,729	61,276	2,458	74,185	3,622	71,905	3,965	54,267	3,146	48,297	3,143
February	48,575	2,396	56,153	3,617	62,945	3,834	59,212	3,513	44,034	3,432	43,522	3,775
March	61,965	5,970	58,572	6,499	65,136	4,967	68,136	5,545	44,010	4,871	45,298	6,807
April	72,051	5,933	82,342	6,372	84,667	5,907	88,755	8,897	61,298	6,664	54,435	6,020
May	78,085	5,339	65,207	7,483	72,706	6,153	65,143	6,002	52,000	4,918	50,036	5,009
June	68,824	6,033	81,232	5,524	65,980	4,483	71,619	5,327	55,551	4,569	43,238	7,071
July	70,333	5,395	86,011	5,309	74,591	5,136	62,396	6,492	56,513	6,404	48,739	6,152
August	83,874	7,090	90,534	7,565	89,089	4,948	79,875	4,976	71,925	5,613	72,023	5,184
September	64,247	5,793	68,748	5,890	83,673	6,640	67,891	5,780	50,615	6,769	43,485	7,950
October	63,611	4,766	73,944	5,233	77,805	5,806	49,502	6,566	55,847	5,008	48,878	5,669
November	54,089	4,304	61,877	4,086	69,058	3,051	28,392	3,422	46,621	3,110	44,577	3,890
December	60,450	2,771	72,904	2,012	77,864	2,305	38,726	1,622	41,531	3,234	40,141	3,761
Total Number of Persons admitted to view the General Collections.	786,850	58,519	858,800	62,048	897,639	56,852	751,552	62,107	634,212	57,738	582,779	63,521
	845,369		920,848		954,551		813,659		691,950		646,300	

NUMBER OF VISITS OF STUDENTS TO PARTICULAR DEPARTMENTS.

	1902.	1903.	1904.	1905.	1906.	1907.
To the Reading Room - - - -	211,244	209,713	226,323	214,940	212,997	137,682
" Newspaper Room - - - -	23,617	23,648	22,053	21,857	19,723	20,098
" Map Room - - - -	309	313	297	286	281	281
" Department of Manuscripts - - -	9,063	10,291	10,469	10,623	11,414	11,854
" Department of Oriental Printed Books and Manuscripts,	2,987	2,594	3,595	3,552	3,313	3,286
" Print Room - - - -	8,061	9,484	8,383	8,614	8,396	8,590
" Egyptian and Assyrian Department - -	2,560	2,750	2,900	2,750	2,668	2,550
" Greek and Roman Department - - -	416	592	740	574	600	428
" Galleries of Sculpture - - - -	3,293	3,462	2,985	2,985	1,758	1,206
" British and Mediaeval Department - -	2,117	2,445	2,514	1,905	2,995	3,254
" Coin and Medal Room - - - -	4,015	4,495	4,223	4,411	4,365	4,191
Total - - - -	267,682	269,787	284,432	272,497	268,510	193,420

The British Museum, Bloomsbury (including the Departments of Printed Books and Maps, Manuscripts, Oriental Printed Books and Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, Greek and Roman Antiquities, British and Mediæval Antiquities and Ethnography, and Coins and Medals), is open to the public free daily (except on Good Friday and Christmas Day and days of Public Fast or Thanksgiving), as follows :—

On WEEKDAYS from 10 a.m. to 6 p.m.

After 4 p.m. in January, February, November, December, and after 5 p.m. in March, September, October, only certain of the galleries remain open, viz. :—

On MONDAYS, WEDNESDAYS, and FRIDAYS	{	Exhibitions of Manuscripts, Printed Books, Prints and Drawings, Porcelain, Glass & Majolica; Prehistoric, British, Anglo-Saxon, Mediæval and Ethnographical Collections.
--	---	--

ON TUESDAYS, THURSDAYS, and SATURDAYS	{	Egyptian, Assyrian, Greek and Roman Galleries (exclusive of the Vase Rooms and Bronze Room); Gold Ornament Room, American Collections, and the Waddesdon Room.
--	---	--

On SUNDAY AFTERNOONS :—

From 2 to 4	p.m. in	January, February, November, December.
,, 2 ,, 5	,, ,,	October.
,, 2 ,, 5.30	,, ,,	March, September.
,, 2 ,, 6	,, ,,	April, May, June, July, August.

Persons applying for the purposes of research and reference are admitted to the Reading Room under certain regulations every weekday, except the days specified below, from 9 a.m. until 7 p.m. The Newspaper Room is open, under similar regulations, from 10 a.m. until 4, 5, or 6 p.m., according to the season of the year.

The Reading Room, Newspaper Room, and Students' Rooms in the Library and Department of Manuscripts are closed on Sundays, Good Friday, Christmas Day, and the first four weekdays in March and September.

Other Students' Rooms are closed on Sundays, Good Friday, and Christmas Day, and occasionally for cleaning.

Students are admitted generally to the several Departments, on weekdays, from 10 till 4 or 5 o'clock ; and to the Sculpture Galleries from 9 o'clock till the hour of closing.

British Museum, }
31 March 1908. }

E. Maunde Thompson,
Director and Principal Librarian.

R.—PERSONS ADMITTED TO VIEW THE COLLECTIONS IN THE BRITISH MUSEUM (NATURAL HISTORY), CROMWELL ROAD, in each Year from 1902 to 1907, inclusive.

	1902.		1903.		1904.		1905.		1906.		1907.	
	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.
January	26,975	8,513	24,720	2,617	43,394	4,758	39,655	3,933	35,413	3,622	30,598	2,979
February	19,603	3,431	22,099	4,662	26,900	5,481	23,614	4,445	25,960	4,227	26,846	4,250
March	35,229	6,715	24,049	7,419	28,790	6,138	33,156	5,406	27,682	5,454	33,865	7,539
April	35,313	6,082	59,546	5,853	56,671	6,418	60,418	7,071	44,218	6,929	58,220	7,394
May	39,734	6,309	28,800	6,823	36,952	6,466	43,423	8,290	32,020	5,942	47,095	6,147
June	31,170	5,827	41,440	5,827	32,022	4,887	66,124	7,455	42,840	4,380	37,105	7,144
July	31,357	4,603	36,949	6,040	28,540	4,999	36,663	6,948	32,969	6,279	32,093	5,741
August	42,750	6,632	51,044	7,346	43,554	5,178	57,812	6,206	49,279	5,811	49,158	5,954
September	30,775	5,890	32,619	4,966	30,695	5,796	35,916	6,370	29,810	6,683	31,014	6,166
October	25,922	4,969	31,626	4,171	23,689	5,929	33,263	6,793	37,739	5,354	33,618	5,722
November	24,970	4,267	33,466	4,504	24,941	3,203	32,477	3,709	28,789	3,276	25,714	3,736
December	28,786	2,737	37,187	2,960	33,500	2,156	33,758	3,458	24,677	3,194	25,744	3,595
Total Number of Persons admitted to view the Natural History Collections (including students)	372,584	61,035	423,545	63,188	409,648	60,909	496,229	70,084	411,406	61,151	431,070	66,367
	433,619		486,733		470,557		566,313		472,557		497,437	

NUMBER OF VISITS TO PARTICULAR DEPARTMENTS for the purpose of STUDY.

	1902.	1903.	1904.	1905.	1906.	1907.
Zoology	-	11,627	11,824	11,811	10,813	11,043
Geology	10,633	4,601	4,854	4,968	4,171	5,544
Mineralogy	1,366	1,541	909	994	867	855
Botany	2,068	2,108	2,358	1,939	2,065	2,245
Total	18,202	19,877	19,945	19,712	17,916	19,687

The Exhibition Galleries of the British Museum (Natural History), Cromwell Road, South Kensington, including the Departments of Zoology, Geology and Palæontology, Mineralogy, and Botany, are open to the public, free, daily, except Good Friday and Christmas Day, and days of Public Fast or Thanksgiving.

The hours of Admission are as under:—

On WEEKDAYS, throughout the year from 10 a.m., in

January - - - - -	to	4	p.m.
February 1st to 14th - - - - -	„	4.30	„
February 15th to end - - - - -	„	5	„
March - - - - -	„	5.30	„
April to August - - - - -	„	6	„
September - - - - -	„	5.30	„
October - - - - -	„	5	„
November and December - - - - -	„	4	„

also, on MONDAYS and SATURDAYS only, from the beginning of May to the middle of July, to 8 p.m., and from the middle of July to the end of August, to 7 p.m.

On SUNDAYS, in

January - - - - -	from	2	to	4	p.m.
February 1st to 14th - - - - -	„	2	„	4.30	„
February 15th to end - - - - -	„	2	„	5	„
March - - - - -	„	2	„	5.30	„
April - - - - -	„	2	„	6	„
May to August - - - - -	„	2.30	„	7	„
September - - - - -	„	2	„	5.30	„
October - - - - -	„	2	„	5	„
November and December - - - - -	„	2	„	4	„

Persons are admitted to study in these Departments every weekday from 10 till 4 o'clock.

British Museum (Natural History), } *E. Maunde Thompson*,
 22 February 1908. } Director and Principal
 Librarian.

VIII.—GENERAL PROGRESS AT THE MUSEUM, BLOOMSBURY.

The number of visitors to the Museum during the year 1907 was largely affected by the closing of the Reading Room for renovation. The total number of visits amounted to 646,300, as against 691,950 in 1906; the number of visits on week-days being 582,779, a falling off as compared with 634,212 in 1906, but, on the other hand, the Sunday visits rising to 63,521, as against 57,738 in the previous year.

The Reading Room was closed for repair and renovation from the 15th April to the 31st October. It was therefore accessible to readers for only 139 days in the year. While the room was closed, temporary accommodation was provided in the North Library for about 150 readers daily, on 172 days. The total number of visits by readers in the year was 137,682, being a daily average of 442, as against a total of 212,997, with a daily average of 702, in 1906.

The number of visits of Students to particular Departments (other than the Reading Room) in 1907 was 55,738, as against 55,513 in 1906. The variations of the numbers in the several Departments were not very great; rising in some degree in the Newspaper Room and in the Departments of Manuscripts, Prints and Drawings, and British and Mediæval Antiquities; and falling in the Departments of Egyptian and Assyrian, and of Greek and Roman, Antiquities, and of Coins and Medals, as well as in the Galleries of Sculpture.

The first contract for the erection of the British Museum Extension building in Montague Place, on the north side of the Museum, which was entered into in 1906 for the construction of the basement and sub-ground floor, was practically completed at midsummer. On the 27th June, His Majesty the King, accompanied by Her Majesty the Queen, laid the Foundation Stone of the new building, which, with the King's assent, will be named "King Edward the Seventh's Galleries."

Provision having been made by the First Commissioner of His Majesty's Works for the renovation of the Reading Room, which had not been repainted or redecorated since it was first opened in 1857, the room was closed and placed in the hands of the contractors on the 15th April. It was re-opened to readers on the 1st November. The entire fabric was carefully examined and tested, and, where necessary, repaired. The iron-work, of which the room is largely constructed, was found to have suffered no deterioration in the lapse of time, and scarcely a rivet had failed. The system of ventilation was thoroughly cleansed and improved in details. New electric wiring was installed. The backs of the book-cases round the room were closed in with sheet-iron; a slight material, merely to exclude draughts, having originally been employed. The wood-work of the fixed desks and the furniture of the room generally were made good and re-polished. The floor was re-laid with cork-carpeting. The

original scheme of decoration was not followed, the colours which were at first applied to details of the great dome not being repeated, but white paint and gold alone being employed. The result has been a very great improvement of the light in the room.

The arduous work of removing the books of reference from the Reading Room previous to the renovation, of revising the collection, of weeding out obsolete books and of replacing them by recent works and additions, and of refilling the shelves after the renovation was completed, was punctually and successfully accomplished by the staff of the Library.

The stone-work of the steps of the North-West Staircase, which had become seriously worn, has been renewed. The rooms of the Department of Coins and Medals, the students' room of the Department of Prints and Drawings, the First and Third Egyptian rooms, and the American room have been repainted. The installation of electric fans, to improve the ventilation of the public galleries, has been extended.

Early in the year excavations were carried out by Mr. D. G. Hogarth, for the Trustees, on a site at Asyut in Upper Egypt, granted for the purpose by the Egyptian Government. The result has been the acquisition of a large collection of miscellaneous antiquities, including a fair proportion of early examples. They are described below (pp. 51-53).

Among the more important additions to the several Departments the following may be specially noticed :—

The Department of Printed Books has added upwards of seventy works to its series of English books printed before 1640; and has augmented the great collection of Incunabula, or books printed before the year 1501, by forty-five additional examples. Among the English books is an Indulgence of Pope Sixtus IV. printed by William Caxton in 1481. A collection of broadsides and pamphlets relating to the history of Scotland between the years 1644 and 1700 has also been acquired.

The Department of Manuscripts has made the important purchase of a Latin Psalter, partially glossed in Anglo-Saxon, which was written in the South of England, perhaps at Canterbury, in the latter part of the 10th century; together with a Lexicon Tironianum, containing the collection of Latin shorthand symbols the invention of which is attributed to M. Tullius Tiro, freedman of Cicero, also of the 10th century. To Mr. C. Fairfax Murray the Department is indebted for the gift of autographs of portions of two of William Morris's poems, "Sigurd the Volsung" and "The Earthly Paradise"; and to the Rev. Charles Hargrove for the gift of the original correspondence of the poet Shelley with Elizabeth Hitchener in 1811-12.

The Department of Oriental Printed Books and Manuscripts has purchased an important series of Coptic MSS. and a very rare Nubian MS., of Biblical and hagiological interest, of the 10th and 11th centuries ; and, among Arabic MSS., one of great rarity and age, written in A.D. 1039.

In the Department of Prints and Drawings an acquisition of great interest is a collection of first sketches and studies by Tintoretto, the greater number painted in tempera and oil on paper. The series of Japanese woodcuts has also been augmented by a selection of upwards of three hundred examples acquired by purchase, and by an equal number the gift of Sir Hickman Bacon, and by others presented by Sir Ernest Satow and Mr. W. C. Alexander.

The Department of Egyptian and Assyrian Antiquities has acquired, in addition to the objects from Asyut referred to above, a collection of Egyptian antiquities, many being of the early periods, presented by the Egypt Exploration Fund ; and two good collections of Egyptian scarabs. To the Assyrian section have been added the bronze figure of, an Elamite king, inscribed, of the period 2,000 B.C. ; and an inscribed boundary stone of about 1,100 B.C.

To the Department of Greek and Roman Antiquities have been added a beautiful statue of a woman standing in an attitude of mourning, executed by a Greek sculptor late in the 4th century B.C., and two handsome Roman marble lavers, from the Duke of Sutherland's collections at Trentham Hall. A miniature bust, worked in plasma, of Agrippina the Elder is the gift of an anonymous donor.

The Department of British and Mediæval Antiquities has acquired a remarkable gold hoard, consisting of a number of bracelets of the Bronze Age, used as currency, which was discovered at Bexley in Kent ; and a fine specimen of Carolingian carving in whale's bone, originally the cover of a casket. Among the gifts to the Department are : a cordoned bronze bucket, made in North Italy about the 7th century B.C., recently found at Weybridge and presented by Mr. William Dale ; a series of silver personal ornaments and ingots, from Kieff in Russia, the gift of Mr. J. Pierpont Morgan ; and an ancient Mexican obsidian mask and mirror and a jadeite dagger presented by the Misses Thornton.

Among the Greek coins acquired by the Department of Coins and Medals will be noticed several of great rarity ; and some interesting specimens have been added to the Anglo-Saxon and early English collection. A very important series of foreign "sterlings," imitations of the English silver penny, was bequeathed by Mr. Samuel Smith ; and some valuable foreign medals were given by Mr. Alfred de Pass and by Mr. Max Rosenheim.

Gifts of Museum publications, including reproductions of prints and drawings by Old Masters, and sets of electrotypes of British Historical Medals, have been made to Free

Libraries, Local Museums, and Art Schools throughout the United Kingdom, and to institutions in various Colonies.

The following are the publications issued by the Departments at Bloomsbury during the year:—

The Sculptures and Inscription of Darius the Great on the Rock of Behistûn in Persia. 1907. 8vo., 1*l*.

Catalogue of Finger Rings, Greek, Etruscan and Roman, in the British Museum. By F. H. Marshall, M.A. 1907. 4to., 23s.

Catalogue of Greek Papyri in the British Museum; with Texts. Vol. III. 1907. 4to., 2*l*. 10s.

Autotype Facsimiles of Greek Papyri in the British Museum. Vol. III. 1907. Fol., Portfolio, 3*l*. 3s.

Catalogue of Additions to the Manuscripts in the British Museum in the years 1900–1905. 1907. 8vo., 1*l*. 10s.

Reproductions from Illuminated Manuscripts. Series I. 50 collotype plates. 1907. 4to., 5s. Series II. 50 collotype plates. 1907. 4to., 5s.

Catalogue of the Pamphlets, Books, Newspapers, and Manuscripts relating to the Civil War, the Commonwealth, and Restoration, collected by George Thomason, 1640–1661. 2 vols. 1908. 8vo., 1*l*. 10s.

Medallic Illustrations of the History of Great Britain and Ireland. Part VI. Plates LI.–LX. Part VII. Plates LXI.–LXX. 1907. Folio, 6s. each part.

Catalogue of Drawings by British Artists and Artists of foreign origin working in Great Britain. Vol. IV., S–Z. By L. Binyon. 1907. 8vo., 14s.

Reproductions of Prints. Third Series. Part I. (Specimens of Etching by German Masters, 1475–1575). 25 plates. 1907. 2*l*.

A Guide to the Exhibition Galleries of the British Museum (Bloomsbury). Seventh edition, revised. With plans. 1907. 8vo., 2*d*.

A Guide to the Mediæval Room and to the Specimens of Mediæval and Later Times in the Gold Ornament Room. With 14 plates and 194 illustrations. 1907. 8vo., 1s. 6*d*.

British Museum,
31 March, 1908.

E. Maunde Thompson,
Director and Principal Librarian.

IX.—PROGRESS made in the ARRANGEMENT AND DESCRIPTION OF THE COLLECTIONS, AND ACCOUNT OF OBJECTS ADDED TO THEM in the Year 1907 (Bloomsbury).

DEPARTMENT OF PRINTED BOOKS.

I. *Arrangement*.—The works added to the collection during the past year have, as far as possible, been placed on the shelves of the Library according to the system of classification adopted in the Museum.

The press-marks, indicating their respective localities, have been marked on the inside and affixed to the back of each volume.

The total number of these press-marks amounts to 63,952; in addition to which 109,054 press-marks have been altered in consequence of changes and re-arrangements carried out in the Library; 25,419 labels have been affixed to books and volumes of newspapers, and 130,965 obliterated labels have been renewed.

The process of attaching third-marks to the books in the New Library, with the view of accelerating their delivery to readers, has been continued, and is now completed; 45,747 books have been thus marked during the year, and alterations to correspond, amounting to 192,188, have been carried out in the General and Hand Catalogues; 3,047 index-slips have been written for London Newspapers.

The number of stamps impressed upon the articles received has been 420,123.

3,710 presses of books and newspapers have been dusted in the course of the year.

II. *Catalogues*.—*Cataloguing*.—46,311 titles have been written (the term "title" applying equally to a main-title and to a cross-reference) for the General Catalogue and for the Catalogues of Maps and Music.

Printing.—30,883 titles and 512 index-slips for the General Catalogue, 2,145 for the Map Catalogue, and 15,507 for the Music Catalogue have been prepared for printing during the year; and 31,198 titles and 885 index-slips for the General Catalogue, and 2,145 for the Map Catalogue have been printed.

Incorporation.—*General Catalogue*.—30,698 title-slips and 870 index-slips have been incorporated into each of three copies of this Catalogue. This incorporation has rendered

it necessary, in order to maintain as far as possible the alphabetical arrangement, to remove and re-insert 37,979 title-slips and 399 index-slips in each copy and to add to each copy 812 new leaves.

The system of fortnightly incorporation of accessions to the Library has been carried out with perfect regularity during the past year.

Hand Catalogues.—The number of new entries made in the Hand Catalogue of “Academies” was 283; in that of “Periodical Publications,” 355; in that of Maps and Charts, 415; in that of Music, 1,994; in that of London Newspapers, 3,047; and in that of Directories, 692.

Map Catalogue.—3,123 titles have been written for the Map Catalogue, and 2,914 title-slips have been incorporated into each of three copies of it. This incorporation has rendered it necessary to remove and re-insert 5,916 title-slips in each copy and to add to each copy 283 new leaves.

Music Catalogue.—12,221 titles have been written for the Music Catalogue, and 3,754 title-slips have been incorporated into each of the two copies of it. This incorporation has rendered it necessary to remove and re-insert 7,320 title-slips in each copy of it and to add to each copy 111 new leaves.

Shelf Catalogue.—For this Catalogue, in which the title-slips, mounted on cards, are arranged in order of press-marks, 38,400 have been so mounted and 101,000 have been incorporated in their proper order.

Catalogues of Books of Reference in the Reading Room.—During the year the Books in the Reference Library have been rearranged, and many alterations and additions have been made in the collection. A Catalogue of the books on the ground-floor and in the two galleries of the Reading Room is now in preparation.

III. *Binding.*—The number of volumes and sets of pamphlets sent to be bound in the course of the year was 13,635, including 4,399 volumes of newspapers. In consequence of the frequent adoption of the plan of binding two or more volumes in one, the number of volumes returned was 10,820; in addition to which 122 volumes have been repaired in the binders’ shops.

Besides this, the following binding work has been done in the Library itself:—7,663 volumes have been repaired, 343 broadsides, &c., have been inserted in guard-books, and 4,136 volumes of reports, parts of periodicals, &c., have been bound in a light style of binding.

The following maps, charts, &c., have also been bound or mounted during the year:—77 atlases and 52 volumes of the 25-inch Ordnance Survey have been bound; 214 sheets of the 1-inch Ordnance Survey have been mounted on linen, and 299 Ordnance Survey Indexes on cards; in addition,

299 maps have been mounted on linen, and 135 on cards, and 2 portfolios, 2 cases, and 34 boxes have been made to contain maps.

33,807 numbers of Colonial Newspapers have been folded into 661 parcels, and 647 such parcels have been tied up and labelled preparatory to being bound.

Two volumes of the Blue Copy of the General Catalogue, and 12 volumes of the Red Copy have been broken up and rebound in 26 new volumes. Also, 137 columns have been re-laid in each of the three interleaved copies of the General Catalogue—a process rendered necessary by the accumulation of titles under certain headings.

IV. *Reading Room Service.*—The Reading Room was closed from the 15th April to the 31st October for renovation. During this period a room in the North Library was fitted up and used as a temporary Reading Room.

The number of volumes replaced in the General Library after use in the Reading Room was 497,880; in the King's Library, 17,844; in the Grenville Library, 1,611; in the Map Room, 2,359; in the presses in which books are kept from day to day for the use of readers, 413,399; and in the Oriental Department, 405; making a total amount of 934,998 volumes supplied to readers during the year, exclusive of those to which the readers have personal access on the shelves of the Reading Room.

During the year the Reading Room was open for 139 days, and the temporary Reading Room, which contained accommodation for about 150 persons, for 172 days. The total number of readers during the year was 137,682, giving an average of over 442 daily; the average number of volumes supplied to each reader amounts to seven.

Newspaper Room.—The number of readers during the year has been 20,098, giving a daily average of over 65, the room having been open on 305 days. The number of volumes replaced after use was 52,960, giving a daily average of 173 and of over two volumes to each reader, not reckoning volumes, chiefly Parliamentary Papers, taken from the shelves of the Newspaper Room by the readers themselves. In addition to the above, 1,300 newspapers have been brought to the Library from the Newspaper Repository at Hendon for the use of readers.

Map Room.—281 visitors have made use of the Map Room for the purpose of special geographical research.

Photography.—There have been 343 applications for leave to photograph from books in the Library, and 742 volumes have been supplied to the applicants for this purpose.

V. *Accessions.*—(a) 30,499 Volumes and Pamphlets (including 277 atlases, &c., and 2,640 books of music) have been added to the Library in the course of the year. Of these, 7,535 were presented; 16,176 received under the provisions

of the Copyright Act ; 458 by Colonial Copyright ; 675 by International Exchange ; and 5,655 acquired by purchase.

(b) 69,425 Parts of Volumes (or separate numbers of magazines and other serial publications and of works in progress) have also been added to the Library. Of these, 2,446 were presented ; 44,695 received under the provisions of the Copyright Act ; 547 by Colonial Copyright ; 658 by International Exchange ; and 21,079 acquired by purchase.

(c) 1,944 Maps in 8,402 sheets have been added to the collection in the course of the year. Of these, 702 maps in 1,133 sheets were presented ; 841 maps in 6,459 sheets were received under the provisions of the Copyright Act ; 199 maps in 200 sheets, by Colonial Copyright ; and 202 maps in 610 sheets were acquired by purchase.

(d) 10,111 Musical Publications have been added to the collection. Of these, 9,617 were received under the provisions of the Copyright Act ; 341 by Colonial Copyright ; and 153 were acquired by purchase.

(e) The number of Newspapers published in the United Kingdom, received under the provisions of the Copyright Act during the year, has been 3,442, comprising 233,377 single numbers. 1,208 of these newspapers were published in London and its suburbs ; 1,711 in other parts of England and Wales and in the Channel Islands ; 277 in Scotland ; and 246 in Ireland. 14 sets, containing 4,414 numbers, were received by Colonial Copyright ; 273 sets, containing 38,703 numbers of Colonial and foreign newspapers, have been presented ; and 74 sets, containing 12 volumes and 12,744 numbers of current colonial and foreign newspapers, have been purchased.

(f) 4,136 articles not included in the foregoing paragraphs have been received in the Department. These consist of Single Sheets, Parliamentary Papers, and other miscellaneous items.

The total number of articles enumerated above, as having been received in the Department during the present year, exclusive of newspapers, is 116,115.

Acquisitions of Special Interest.—Seventy-one English books printed before the year 1640, and forty-five Incunabula, one of which is from the press of William Caxton at Westminster, have been added to the Library during the year 1907.

Among the English books, the most interesting are:—

An Indulgence granted on the authority of Pope Sixtus IV. by Johannes de Gigliis in order to obtain money for the defence of Rhodes. Printed by William Caxton at Westminster in 1481. One of the two copies known to exist of the "singular" issue of this Indulgence, *i.e.*, that drawn up for the use of one contributor only.

Statutes of the twenty-second year of King Henry VIII. Thomas Powell, London, 1531.

Erasmus: "Paraphrase upon ye Epistle of S. Paule unto Titus." John Byddell, London, about 1535.

"The Decree for Tythes to be payed in London." Thomas Berthelet, London, 1546.

Bush, Paul, First Bishop of Bristol: "A brefe Exhortation set fourthe to one Margarete Burges wyfe to Jhon Burges, clotheare of Kyngeswode, in the Countie of Wilshere." John Cawood, London, 1556.

Wermueller, Otto: "A Spirituall Pearle. Translated into English by Miles Coverdale." W. Leake, London, 1560.

Bale, John: "A new Comedy or Enterlude concernyng the lawes of Nature, Moises and Christe." Thomas Colwell, London, 1562.

Mascall, Leonard: "The first booke of Cattell." John Wolfe, London, 1587.

Sidney, Sir Philip: "The Defence of Poesie." Printed for William Ponsonby, London, 1595. Two editions of this work were printed in the year 1597. One, already in the British Museum, under the title of "An Apologie for Poetrie," printed without authority by Henry Olney; and the present authorized edition published by William Ponsonby, of which only one other copy is known.

"A moste pythie Epistle to anymate all trew Christians. Translated out off ffrench by Robert Pownall." Geneva, 1596.

"A verie iperfect Discourse and Order how to know the age of a Horse. By L. W. C." Thomas Pavier, London, 1601. The only known copy.

"Christes Bloodie Sweat. By J. F.," 1616. Attributed to Joseph Fletcher, Rector of Wilby, Suffolk.

A collection of broadsides, single-sheets, and folio pamphlets, consisting of proclamations, legal documents, trials and political tracts relating to the history of Scotland between the years 1644 and 1700.

The Italian original and a French translation of a book by the Abbé Prime, writing under the assumed name of "Il Conte San Maiolo," entitled "Historia della Guerra d'Olanda." Paris, 1682. This book, which contains an account of the secret articles of the Treaty of Dover, May, 1670, was suppressed at the instance of Viscount Preston, the English Ambassador to France.

Incunabula.—Two interesting Incunabula which have been presented to the Library are described below among the

Donations. Of those purchased during the course of the year, the following deserve special mention:—

Antoninus, Archbishop of Florence: "Summa Confessionum." Printed by Antonius Zarotus at Milan, 1472.

"Leben der Heiligen." Printed by Günther Zainer at Augsburg, 1472. With numerous woodcuts.

Rufus, Sextus: "De rebus gestis Populi Romani" and "De aedificatione Venetiarum." Printed by Florenz of Strassburg at Venice, about 1472.

Thomas Aquinas: "De Corpore Christi." Printed by the anonymous printer known as the printer of "Augustinus de Fide," at Cologne, 1473.

Thomas Aquinas: "Quaestiones de Malo." Printed by Arnold ter Hoernen, the second printer at Cologne, about 1473.

Eusebius Pamphili: "De evangelica praeparatione." Printed by Ulrich Zell at Cologne, about 1474.

Bernard, Saint: "De Consideratione." Printed by Nicolas Ketelaer and Gerhard Leempt at Utrecht, about 1474.

Bernard, Saint: "Speculum de honestate vitae." Printed by Martin Flach at Basel, about 1475.

Barbatia, Andreas: "Repetitio solemnibus rubricae de fide instrumentorum." Printed by Martin Huss, Toulouse, 20 June, 1476. Toulouse was the third city in France into which printing was introduced. The first books printed at Paris and at Lyons are already in the Library. The present is the first book printed at Toulouse.

Gratianus: "Concordantiae Canonum." Printed by Ulrich Han at Rome, 1478.

A Psalter, printed by Aloisius Siliprandus at Venice, 1478. Two books only printed by Siliprandus have been hitherto known, one of which was printed at Venice in 1477, the other at Mantua in 1480.

"Phaetra, auctoritates et dicta doctorum et poetarum continens." Printed by Conrad Winters at Cologne, about 1480.

Strabo: "Geographia." Printed by Joannes Rubeus at Treviso, 1480.

Nicolaus de Auximo: "Supplementum." Printed by Jacobinus Suigus at Vercelli, 27 October, 1485. There are already in the Library two works of this travelling printer, one produced at San Germano in 1485, the other at Chivasso in 1486.

Pico della Mirandola, Giovanni: "Apologia." Printed by Matthias Morauus at Naples, 1487.

"Summa Radium." Printed by Johann Otmar at Reutlingen, 1487. A theological and liturgical encyclopædia for unlettered priests.

Lull, Raymond: "Janua Artis." Printed by Pedro Posa at Barcelona, 1488.

Molitor, Ulrich: "De lamiis et phitonicis Mulieribus Tractatus." Printed by Johann Prüss at Strassburg, 1489. With seven interesting woodcuts.

Petrarch: "Opera Latina." Printed by Simon Beuilaqua at Venice, 1493.

Guido, de Monte Rocherii: "Manipulus Curatorum." Printed by Jacques Le Forestier at Rouen, 1497. In a fine contemporary binding.

"Livre d'heures à l'usage d'Arras." Printed by Philippe Pigouchet at Paris, 1499. The only known copy.

Bindings.—Several books in sumptuous or interesting bindings have been added to the Library during the year. Among these are:—

Cudworth, Ralph: "The True Intellectual System of the Universe," London, 1648. Bound by Samuel Mearne in red morocco with gold tooling.

Three books bound in black morocco with blind tooling; a description of binding used in England during the later years of the seventeenth and early years of the eighteenth centuries. All three are fine specimens of this curious form of binding.

Fortescue, Sir John: "Difference between an absolute and limited Monarchy." London, 1724. In a fine contemporary English binding in black morocco with gold tooling.

"Book of Common Prayer," Dublin, 1750, folio. A fine specimen of Irish bookbinding of the eighteenth century.

Donations.—Among the many valuable donations which have enriched the Library during the year 1907 are the following:—

Le Grand, Jacques: "Sophologium." Printed at Strassburg about 1477, by the anonymous printer (probably Adolf Rusch) known as the "R printer" from his use of a peculiar form of the letter R. *Presented by George Dunn, Esq.*

The last ten leaves of the "Historia Baetica" of Carolus Verardus. Printed by Eucharius Silber at Rome, 1493, completing the copy of the work in the Library. The last leaf consists of the music of a four-part song printed from blocks, probably the earliest example of mensurable music printed at Rome. *Presented by A. H. Littleton, Esq.*

The original copper-plate of the form of Commission issued to the Customs Officers in Boston, Massachusetts, in or about the year 1773, together with three impressions of the plate. *Presented by H.M. Board of Customs.*

Twenty-eight editions of separate works by Lord Tennyson, including a copy of "The Falcon" printed for the author, 1879; eleven editions of "In Memoriam" published between the years 1855 and 1867; seven editions of "The Princess" published between 1854 and 1867; and eight editions of "Maud" published between 1861 and 1874. *Presented by T. J. Wise, Esq.*

"Catalogue of the Rodolphe Kann Collection." 4 vols. Paris, 1907. *Presented by Messrs. Duveen Brothers.*

A collection of Newspapers published in the British Colonies during the year 1906, in continuation of the series previously presented. *Presented by the Royal Colonial Institute.*

Files of the "Gloucester Journal," between the years 1777 and 1826. *Presented by the Committee of the Gloucester Public Library.*

A collection of 1,377 pieces of sheet music, chiefly of the eighteenth and early nineteenth centuries. *Presented by the Royal College of Music.*

Maps.—The following are among the most important additions to the collection of Maps during the year 1907:—

Ortelius, Abraham: "Additamentum Theatri Orbis Terrarum." Antwerp, 1579.

The first issue of the second supplement, together with the supplements published at Antwerp in the years 1580, 1584, and 1590.

Ortelius, Abraham: "L'Épitome du Théâtre de l'Univers." Antwerp, 1602.

Ortelius, Abraham: "Theatro del Mondo." Venice, 1697.

A Facsimile in 19 sheets of a map of the World by Jodocus Hondius, originally published in Amsterdam 1611. Edited by E. L. Stevenson and J. Fischer. New York, 1907.

Mercator, Gerardus: An Atlas containing 179 maps engraved by Jodocus Hondius and Petrus Kaerius. Amsterdam, 1632.

Senex, John: "The English Atlas, consisting of thirty-one maps." London, 1714.

Music.—In addition to the music presented during the year and described above under *Donations*, the following interesting accessions have been acquired for the Musical Library.

"Certaine notes set forth in foure, and three parts to be song at the Morning Communion, and Evening Praier." (Two parts, Medius and Bassus.) John Day, London, 1560.

"Mornyng and Evenyng Prayer and Communion." (Two parts, Contra-Tenor and Tenor.) John Day, London, 1565.

These four parts form a complete copy of this work, which was designed to supply polyphonic settings of the Book of Common Prayer, with a few anthems. The composers were Thomas Tallis, Thomas Causton and several others. Only two other copies of either edition are known, one at Westminster Abbey, the other in the Bodleian Library.

Zange, Nicolas: "Kurtzweilige Neue Teutsche Lieder." 4 Pts. Cologne, 1603. Wanting the title-page and pages 1-4 of the first part. Only one perfect copy of this book, which contains a musical setting of the street cries of Cologne, is known to exist.

Bach, Johann Sebastian: "Sechs Chorale für Orgel," published between the years 1747 and 1749.

Only three other copies of this work are known.

G. K. Fortescue.

DEPARTMENT OF MANUSCRIPTS.

1. *Catalogue of Additions*.—The printed Catalogue of the MSS. acquired in 1900–1905 has been published.

The descriptions of MSS. acquired in 1906 have been printed, and have been incorporated in the Class Catalogue kept in the Students' Room.

All the MSS. acquired in 1907, viz. Additional 37426–37628 and Egerton 2866–2873, have been described and indexed, with the exception of the Romilly Allen archæological collections, the arrangement of which is not yet complete. The descriptions have been revised and are ready for press.

2. *Catalogue of Papyri*.—Vol. III., with an atlas of 100 plates, has been published. Vol. IV., which will contain Greek papyri of the eighth century, is in an advanced state of preparation. Several papyri have also been transcribed for Vol. V.

3. *Catalogue of the Royal MSS*.—One hundred and forty-eight MSS. in the Royal collection have been described for the new detailed Catalogue.

4. *Catalogue of Music*.—Vol. II. (Secular Vocal Music) has been printed off, and is ready for issue.

5. *Catalogue of Romances*.—Progress has been made in the preparation of Vol. III., descriptions of thirty-two MSS. having been finally revised for press.

6. *Catalogue of Charters*.—Additional Charters 46918–47379, 48171–49841, 52392–53091 (acquired in 1903), 53195–53708 (acquired in 1904), and 53709–53827 (acquired in 1905) have been described and indexed.

The revision of the index-slips of topographical entries from Charters acquired in 1882–1900 for Vol. II. of the General Index of Charters has been continued, letters A–M being now ready for press.

7. *Binding*.—One hundred and seventy Additional MSS. and six Egerton MSS. newly acquired, and seventy-six MSS. of the old collections, have been bound or repaired, together with 150 Books of Reference and Catalogues.

One hundred and forty-seven Papyri have been bound and glazed.

8. *Verification*.—The entire collection of MSS. has been verified by comparison with the Shelf-Lists, and a large portion of the Additional Charters has also been verified.

9. *Reproductions*.—Series I. and II. of Reproductions from Illuminated MSS. have been prepared and issued.

10. *Stamping, folioing, and placing*.—One hundred and ninety-eight Additional MSS., six Egerton MSS., six hundred and seventy Charters and Rolls, and two hundred and thirty-two Books of Reference have been stamped, with a total of 24521 impressions; 1450 numbers have also been impressed upon rubbings.

One hundred and nineteen MSS. have been folio'd, with a total of 30323 folios. 31469 Index-slips, etc., have also been numbered.

One hundred and ninety-nine Additional MSS. have been placed, press-marked, and entered in the Hand- and Shelf-Lists. One hundred and eighteen Charters and Rolls and thirty-four Seals and Casts of Seals have been placed, and entered in the Inventories. Numbers have been written on 1409 Charters.

A new second volume of the Hand-List of Additional MSS., a new Hand-List to the Cotton Charters, and a new Shelf-List of Exhibited MSS., have been completed. Others are in progress.

11. *Books of Reference*.—Two hundred and thirty-one volumes and parts have been received, catalogued, and placed. Progress has been made with the preparation of a new catalogue.

12. *Consultation of MSS.*—33647 MSS. and 6131 Charters and Seals have been consulted in the Students' Room, and ninety MSS. in the large Reading Room. The number of Students has been 11854.

Magna Charta was exhibited to 9409 visitors.

13. *MSS. photographed*.—Eight hundred and fifty MSS. (including Charters and Seals) were allowed to be photographed, with a total of 6863 photographs taken.

14. *Acquisitions*.—The number of Manuscripts and Documents, etc., acquired during the year has been:—

Additional MSS.	-	-	-	-	-	203
Egerton MSS.	-	-	-	-	-	8
Charters and Rolls	-	-	-	-	-	144
Detached Seals and Casts	-	-	-	-	-	33
Papyri	-	-	-	-	-	67

The most important of the acquisitions by gift during the year are of literary interest. A volume of correspondence of Shelley with Miss Elizabeth Hitchener, June, 1811–June, 1812, including 44 letters of the poet, five of which contain verses, was presented by the Rev. Charles Hargrove, of Leeds. It was bequeathed to him by Mrs. Charlotte M. Slack, with the request that it should ultimately pass to the British Museum on his death.

Another valuable Shelley autograph, his poem "To Jane —The Recollection," dated 2 February, 1822, was presented by Lieut.-Colonel C. F. Call and Mrs. Call. The latter inherited it from her father E. J. Trelawny, to whom it was given by "Jane" (Mrs. Williams).

Mr. C. Fairfax Murray presented the autograph first draft of a considerable part of "Sigurd the Volsung," by William Morris, with the laudable intention that it might be preserved with the autograph fair copy, which was acquired by purchase earlier in the year; and to this he added the autograph of the dedication, prologue, and other portions of "The Earthly Paradise." Morris is therefore now represented in the Museum by MSS. of his two finest poems. An interesting letter of Keats to B. W. Haydon, referring to "Endymion" and "Hyperion," was also received from the same generous donor, to accompany the autograph of "Hyperion," purchased in 1904.

The acquisitions by purchase include a long Greek papyrus roll from Antinoöpolis, containing the record of a disputed inheritance dated in A.D. 612, with a marriage contract on the back relating to the same place. An interesting group of over thirty Greek papyri, for the most part in exceptionally good condition, has also been acquired from Syene (Assouan). They include contracts and legal documents of various kinds between A.D. 549 and 613, most of the parties concerned being soldiers of corps stationed at or near Syene. Another purchase of exceptional interest is a large Latin Psalter, Hymnary, etc., with a partial Anglo-Saxon gloss, written in the South of England (possibly at Canterbury) in the latter part of the 10th century, and decorated with fine ornamental initials. It belonged successively to Archbishop Cranmer, Henry FitzAlan, Earl of Arundel, and John, Lord Lumley, and was perhaps at one time in the Royal Library, in which Lord Lumley's collection was absorbed after his death in 1609.

Among other acquisitions, by purchase, donation, or bequest are the following:—

Wooden book, composed of eight tablets fastened together by silk cords; with writing in Greek of a grammatical character, of the 3rd cent., on seven of the pages. Found in Egypt, and no doubt intended for school use.

Wooden tablet, whitened and ruled with lines, inscribed with Greek grammatical exercises for school use in Egypt; 3rd cent.

Life and miracles of St. Cosmas and Damian, in Greek; 10th–11th cent. A hitherto unknown recension.

The Four Gospels, in Greek, written by the scribe Xenophon; early 13th cent. Two volumes.

Lexicon Tironianum: a collection of the Latin shorthand symbols originally invented by M. Tullius Tiro, freedman of

Cicero; 10th cent. With two flyleaves in uncial characters of the 8th cent. containing fragments of a Sacramentary and of the Gospels of SS. Mark, Luke and John.

Bible, in Latin, with illuminated initials, from St. Martin's Priory, Dover; 13th cent.

Bible, in Latin, written in Italy in a minute hand, with beautifully executed coloured initials; 13th cent.

Missal, in Latin, of Sarum use, with small miniature initials; 14th cent.

Breviary, in Latin, of York or some allied use; late 14th cent.

The *Poetria Novella* of Geoffrey de Vinsauf, a copy written in Italy, with Italian glosses, in 1382.

Romances and religious poems in English, including "King Charles," "Otinel," "The Hermit and Outlaw," "The Fendys Parlement," etc.; 15th cent.

Travels of Sir John Mandeville, in the vulgate Latin version; followed by a narrative of the visit of an Hungarian noble to St. Patrick's Purgatory in Ireland in 1353, etc. Written by Johann Swanfelder, a Carmelite, in 1457.

Illuminated miniatures, mostly within initials, cut from manuscripts, comprising twelve of scenes from the Life of Christ on a single leaf from an English MS., 12th cent., four from Italian MSS., 15th cent., and seven from French MSS., late 15th cent.

Two small miniatures from an Italian MS. of Gratian's *Decretum*; 14th cent.

Book of emblems or drawings illustrative of proverbs, etc., accompanied by verses in French; early 16th cent.

Book of accounts of W. de Ayremyn, comptroller, of the expenses of the war with France, 1 Dec. 1372–31 Jan. 1374, especially in connection with the abortive expedition of John of Gaunt, Duke of Lancaster.

Treatise on heraldry, by J. de Vado Aureo, *al.* Bado Aureo, in Latin; 15th cent. With the Order of proceeding to Parliament, 12 Jan. 1563, etc., in the hand of R. Glover, Somerset Herald.

Year-book of law-cases, 10–21 Edw. IV. [1470–1482], in Law-French; written by Robert Chaloner, early 16th cent. *Presented by Evan Hare, Esq.*

Precedents of counts and pleadings, chiefly *temp.* Hen. VI–Hen. VII., in Latin, arranged under heads; originally written about 1493, but continued in various hands to 1520.

Register of instructions, letters, etc., of the Government of Ireland; 1582–1608.

Minute-book of the Parliamentary Committee for Essex, chiefly relating to sequestrations and assessments; 1643-1654.

Summary of the London weekly Bills of Mortality during the Great Plague, 25 Apr.-12 Dec. 1665, drawn up at the time by Col. Jeremy Baynes.

Letter-book of Sir W. Dutton Colt, Envoy to Hanover and Zell; Jan., 1691-May, 1692.

Register of letters from the Lords Justices of Ireland to the Earl of Rochester, Lord Lieutenant, when he was in England; Apr.-Aug., 1702.

Letter-books of Richard Hill, Envoy to Turin; 1703-1706. Two volumes.

Letter of Lord Ellenborough, Lord Chief Justice, to the Home Secretary, on the conviction of Col. Despard and his fellow-conspirators; 1803.

Letter of William Pitt, without address, explaining his political views and asking for support to defeat Addington's ministry; 11 Apr. 1804.

Letter of the Earl of Eldon, Lord Chancellor, on the debate in the House of Lords on Roman Catholic disabilities; 1821.

Autograph draft of the speech of B. Disraeli in the House of Commons, 15 Nov. 1852, on the death of the Duke of Wellington; with letters from the same to his sister and others, 1828-1852.

Elegy on Sir Edward Coke, with an introductory ode to his daughter Mrs. Anne Sadleir and an acrostic epitaph, in the autograph of Robert Codrington, M.A.; 1634. In the original binding, with emblematic tooling.

Two letters from John Dryden to Jacob Tonson, the bookseller, 1684, 1697; and a letter from Alexander Pope to the same, 1731.

Autograph "Journal" of Edward Gibbon, the historian, begun 24 Aug. 1761, and containing particulars of events in his life from his birth, 8 May 1737, to 4 Aug. 1761. Part I. of a series, four of which, ending in Dec. 1764, were acquired in 1895.

Autograph poem, "Summer Morning," by John Clare, the "Peasant Poet," printed in 1821. *Presented by Mr. Charles Dack.*

Four letters from Lord Byron to E. D. Clarke, the traveller, on "Childe Harold," "The Bride of Abydos," etc.; 1812, 1813.

Autograph MSS. of Tennyson's "Experiments in Quantity," printed in *Enoch Arden*, etc.; 1864.

Letter of Edward Fitzgerald, the poet, to Capt. "Posh" (Joseph Fletcher); 1869.

Twenty-one letters of Voltaire to Pastor Allamand, of Bex and Corsier, Switzerland, with drafts of letters of Allamand; 1755-1772.

Correspondence of John Alexander, Bishop of Dunkeld, on the state of the Scottish church, etc.; 1727-1771. With a statement by W. Clift as to the destruction by Sir E. Home of John Hunter's MSS. in 1823, etc. *Presented by C. Davies Sherborn, Esq.*

Letter-book of Samuel Bentham, the naval architect, and Jeremy Bentham, the philosopher, his brother; 1784-1789. *Presented by Sir J. D. Hooker, O.M., K.C.S.I.*

Genealogical collections for the family of Emerson, by Dr. Peter H. Emerson. *Presented by Dr. P. H. Emerson.*

Letters (2) of John Flaxman to W. Hayley, with reference to sculptures which he had in hand; 1802, 1803.

Letters of Richard Garnett, late Keeper of Printed Books, British Museum, to his brother J. W. Garnett, on literary and other subjects; 1851-1864.

Descent of F. Gawdy and Lettice Knollys his wife, with coloured shields of arms; 1611.

Pedigrees of Hardwicke of Southfield Grange, co. York, to 1906, by Herbert Junius Hardwicke, M.D. *Presented by the compiler.*

"Time-Book" of Charles Turner, A.R.A., the engraver, with notes of his works, accounts, etc.; 1798-1804.

Journals, correspondence and papers of Joseph Hékékyan Bey, an Armenian in the Egyptian service, 1829-1874, and engaged in archæological excavations, etc. Twenty-four volumes. *Presented by Tito Hékékyan Pasha.*

Ecclesiological collections of J. T. Micklethwaite (d. 1906), architect to Westminster Abbey, etc. Six volumes. *Presented by Somers Clarke, Esq., F.S.A.*

Archæological collections of the late J. Romilly Allen, chiefly relating to ancient sculptured monuments and Celtic ornamentation. Ninety volumes and boxes.

Pipe-roll discharge to R. Duke, Sheriff of Devon; 1679. Vellum roll.

Rubbings of church-bell inscriptions in Dorsetshire: 135 rolls. *Presented by H. B. Walters, Esq.*

Plans of lands of Sir J. Bateman in Aymestrey, co. Hereford, 1708; and of R. Chaplin in Livers Ocle, co. Hereford, 1705. With coloured shields of arms. Vellum rolls.

Rubbings of church-bell inscriptions in Huntingdonshire, by the Rev. T. M. N. Owen : 68 rolls.

Court-book of the Manor of Keadby, in Althorpe, co. Lincoln ; 1684-1723.

Valuation of East Bedfont, co. Middlesex, by T. Denton, with lists of land-owners and tenants, 1815. *Presented by C. Davies Sherborn, Esq.*

Collections on the language of Northumbria, by Canon James Raine ; *circa*. 1855-1895.

Terrier of estates of Sir W. Jerningham, Bart., in Shropshire and Staffordshire, with finely executed plans and sketches, by J. Sherriff ; 1788. A large folio volume, on vellum.

Collections relating to church-bells, chiefly in Suffolk and Cambridgeshire, by J. J. Raven, D.D., vicar of Fressingfield. Twelve vols. and 148 rubbings.

Papers relating to manors and lands in Warwickshire, Middlesex, and elsewhere, chiefly belonging to the family of Newdigate ; 16th-19th cents. Nine volumes. *Presented by the Rev. J. Harvey Bloom.*

Rubbings of church-bell inscriptions in Warwickshire and Worcestershire : 20 rolls. *Presented by the same.*

Chartulary of the priory of Maiden Bradley, co. Wilts, chiefly relating to lands in Kidderminster ; 14th cent., with additions to 1492.

Register of the Quakers in Scarborough, Whitby and Stainton Dale, co. York ; 1661-1825. A transcript by Bernard P. Scattergood, of Leeds, 1903. *Presented by B. P. Scattergood, Esq.*

Original plans by Robert Mylne, Royal Master-Mason in Scotland, for the rebuilding of Holyrood Palace, Edinburgh, in 1671. Two volumes.

Journal of Captain Cook's third and last Voyage to the South Seas, kept by Thomas Edgar, master of the "Discovery" ; 1 Aug., 1776-6 June, 1778.

Collection of songs, etc., by Arne, Boyce, Handel, Pepusch, H. Carey and others, chiefly written for Marylebone, Ranelagh and Vauxhall Gardens ; 18th cent.

Scenes from operas by J. B. Lully, A. Campra, and other composers ; *circa*. 1719.

"Observations on Chanting, explanatory of a new system," in the autograph of Robert Lucas Pearsall ; 1851.

George F. Warner.

DEPARTMENT OF ORIENTAL PRINTED BOOKS AND
MANUSCRIPTS.

Cataloguing and Arrangement.—The number of the sheets of the various Oriental Catalogues sent to press in 1907 are:—Arabic Books, 2 sheets; Hebrew MSS., 9 sheets; Hindustani Accessions, 18 sheets; Marathi Accessions, 4 sheets; Sanskrit Accessions, 13½ sheets.

The numbers of Titles written for the various Catalogues are:—Annamite, 2; Arabic, 38; Assamese, 26; Assyrian, 1; Baluchi, 2; Bengali, 124; Burmese, 302; Canarese, 38; Chinese, 579; Coptic, 15; Ethiopic, 9; Garo, 2; Gujarati, 121; Hebrew, 52; Hindi, 289; Hindustani, 538; Japanese, 75; Kachari, 6; Kashmiri, 6; Kol, 6; Kurukh, 1; Lushai, 15; Malayalam, 16; Mandaitic, 4; Marathi, 177; Mikir, 12; Mundari, 12; Naga, 36; Oraon, 6; Oriya, 23; Pali, 76; Panjabi, 100; Pahlavi, 1; Persian, 1,321; Prakrit, 3; Pushtu, 37; Sanskrit, 434; Santali, 6; Sindhi, 39; Syriac, 26; Tamil, 664; Tamil in Arabic character, 5; Telugu, 175; Turkish, 57; Zend, 19.

Thirty-nine Arabic MSS. and 55 Hebrew MSS. have been fully catalogued, and shorter descriptions have been prepared of 20 Chinese MSS.

Short descriptions of seventy MSS. acquired have been entered in the Descriptive List, the Register, and the Classed Inventory.

Twenty-nine MSS. (ff. 2,572) have been folio'd.

Binding.—The numbers of Printed Books and MSS. sent to the Binders are:—Arabic, Syriac, and Armenian Books, 128; Chinese and Japanese Books, 70; Hebrew Books, 65; Persian and Turkish Books, 109; Sanskrit and other Indian Books, 226; MSS., 113; Pamphlets, 58.

Students.—The number of Students working in the Students' Room attached to the Department during the year is 3,286. The number of Oriental Printed Books consulted in the Department is 7,206, and of those used in the Reading Room 405. The number of Oriental MSS. consulted in the Students' Room is 4,360.

Photography.—Eighty-nine applications have been made to photograph from Books and MSS.

Additions.—The number of works added to the Department during the year is 1,678, of which 1,608 are Printed Books and 70 are MSS. Of the Printed Books, 84 were bought; 1,349 were received under the India Copyright Act; 54 were received under the Colonial Copyright Act; and 121 were presented.

The MSS. are :—

Arabic	-	-	-	-	-	6
Armenian	-	-	-	-	-	1
Burmese	-	-	-	-	-	2
Chinese	-	-	-	-	-	3
Coptic	-	-	-	-	-	19
Hebrew	-	-	-	-	-	2
Korean	-	-	-	-	-	1 (in 112 parts).
Laos	-	-	-	-	-	1
Manchu	-	-	-	-	-	3
Nubian	-	-	-	-	-	1
Persian	-	-	-	-	-	1
Pushtu	-	-	-	-	-	1
Sanskrit	-	-	-	-	-	27
Prakrit-Sanskrit	-	-	-	-	-	1
Shan	-	-	-	-	-	1
						—
						70
						—

The most important acquisitions are :—

Arabic MSS.—1. The *Diwāns* of four ancient Arabic poets, namely :—Ṭufail ibn 'Auf, 'Āmir ibn al-Ṭufail, 'Abīd ibn al-'Abrās, and al-Ṭirimmaḥ ibn Ḥakīm, each *Diwān* being accompanied by explanatory scholia. Dated A.H. 430 (A.D. 1039); written in Moorish character. The *Diwāns* of these four poets have not hitherto been known to exist, although scattered poems from each of them had been found. 4°.

2. *Tafsīr al-Masā'il wa'l-Ajwibah*, a collection of theological responsa, by Abu Sa'īd 'Abd al-Wahhāb ibn Muḥammad al-Naisābūrī al-Wā'iz. Dated A.H. 719 (A.D. 1319). No other copy of this work has so far been made known. 12°.

Burmese MS.—An Album of panoramic pictures of scenes at the court of the Burmese Kings, XIXth century. Fol.

Chinese MSS.—1. Personal Records of the Emperor T'ai Tsung Wên, founder of the present Manchu-Tartar dynasty. Vols. 1 and 2 (out of 4), covering the period between 1592 and 1636. In yellow silk case. Fol.

2. Edicts of the Emperor Yung Chêng (1723-1735), arranged according to subjects. Vols. 31-33; in red silk case. Fol.

3. Official biographies of eminent public servants of the present dynasty. Vol. 25 (written after 1864). Fol.

4. A Korean Encyclopædia written in Chinese. The present copy is a later and much enlarged manuscript edition of the work which was originally printed under royal instructions in 1770. 112 vols. 4°.

Coptic MSS.—1. A volume containing (1) the latter part of an encomium on the miracles of the Archangel Gabriel; (2) the encomium of Theophilus of Alexandria on the Virgin Mary. A.D. 979. Vellum. 4°.

2. An encomium on St. Michael by Theodosius of Alexandria, with the lessons for his festival. A.D. 983. Vellum. 4°.

3. A volume containing (1) the Death of John the Evangelist; (2) title-page of Gregory Nazianzenus' replies to Epiphanius of Ararat; (3) Cyril of Alexandria on the Virgin Mary. A.D. 990. Vellum. 4°.

4. A volume containing (1) the Acts of St. Eustathius Placidus; (2) the life of St. Cyrus the anchorite, by Pambo of Scete; (3) the encomium of Flavius of Ephesus upon Demetrius of Alexandria, etc.; (4) the Asceticon of Ephraim Syrus; (5) an Epistle of Ephraim Syrus; (6) the Life of John Calybites. A.D. 1003. Vellum. 4°.

5. A collection of seven Coptic MSS. in the Sahidic dialect, including a copy of the Apocalypse (the only known complete Sahidic MS. of any Book of the New Testament), apocryphal narratives of Christ and the Apostles, and Lives of Saints and Homilies. Late 10th and early 11th centuries.

6. Three papyri of magical incantations, probably belonging to the 6th century.

Hebrew MSS.—Two vellum rolls, one containing the Haftāroth, or prophetic lections, for the services of Sabbaths and Festivals, the other containing the portions of the Pentateuch for Sabbath afternoon and week-day services. XVIth century. The contents of both are very rarely found in scroll form.

Japanese Printed Book.—Sei koku hokkei kwōjō sha shin chō, containing photographs of Palace Buildings in the Forbidden City at Peking. Colotyped from the negatives taken by K. Ogawa. With notes in Japanese, Chinese, and English. 2 vols. Tokyo, 1906. Obl. Fol.

Manchu MSS.—1. Reports from Chinese Provincial Governors. Vols. 69-72 (containing nine reports belonging to A.D. 1833 down to 1863). In yellow silk case. Fol.

2. Narrative of the chastisement and pacification of the tribes on the North-Western frontier of China. Vols. 1-3 (containing Emperor's preface, redactor's report, and summary). A.D. 1708. In yellow silk case. Fol.

3. Official history of the present Manchu-Tartar dynasty, intended to be published only after the dynasty shall have ceased to rule. Vol. 41 (for the year 1852). Fol.

Nubian MS.—Eighteen vellum leaves, apparently relating to the miracles of St. Menas. Probably 10th century. Only two other Nubian MSS. are known.

Persian MS.—Kanārang-nāmah, an historical poem on the wars of Fath 'Alī Shāh of Persia (reigned A.H. 1211–1250), by Muḥammad Ḥusain Khān Malik al-Shu'arā. Dated A.H. 1243 (A.D. 1827). 8°. A contemporary account of the events narrated.

Pushtu MS.—The Dīwān, or collected poems, of Mukhlis. XVIIIth century. 8°. Otherwise unknown.

Sanskrit Printed Book.—A Vedic Concordance, being an alphabetic index to every line of every stanza of the published Vedic literature and the liturgical formulæ thereof. By Maurice Bloomfield. 1907. Harvard Oriental Series, Vol. 10.

Sanskrit MSS.—A number of MSS. written in S'ārādā character, on birch-bark (probably XVIth century for the most part), of which the following are the most important:—
1. A commentary by Narahari on S'rīharsha's classical poem Naishadhiya, with text of the poem. Very rare. 4°.

2. A commentary by Bhāskara Miśra on books 7–8 of Mammata's Kāvya-prakāśa, a famous manual on the art of poetry. 8°. Exceedingly rare.

3. A collection (now bound up in 12 volumes) of religious works, including Vedic lectionaries, rituals, hymns, etc. 8°.

4. Nyāyā-sāra-pada-panīkā, a treatise on logic, by Vāsudeva; of considerable antiquity and great rarity. 8°.

5. Brahma-gupta's Khaṇḍa-khādyā, a treatise on astronomy. 8°.

6. Abhinava-gupta's Īśvara-pratyabhijñā-vivṛiti-vimarsinī, a commentary on Ūtpala's Pratyabhijñā-sūtra. 8°.

7. The Cārāyaṇīya (Kāthaka) Gṛihya-bhāshya, a commentary on a work treating on the rules of domestic ritual. Very rare and important for the study of the Kāthaka recension of the Veda.

L. D. Barnett.

DEPARTMENT OF PRINTS AND DRAWINGS.

I.—*Arrangement and Cataloguing, etc.*

All the Japanese woodcuts from the Franks, Hart, Morrison, Satow, Bacon, and Tuke collections severally have been brought together and arranged in a single series, which awaits mounting.

The collection of the works of Stefano Della Bella has been re-arranged in five volumes in accordance with De Vesme's recently published catalogue.

The collection of the works of Francisco Goya has been re-arranged in accordance with Hofmann's catalogue.

The woodcuts by Wolfgang Traut have been brought together and arranged in three portfolios.

The woodcuts by Peter Flötner have been brought together and arranged in a portfolio.

The collection of India proofs of woodcuts by the brothers Dalziel from designs by Sir J. Gilbert, G. J. Pinwell, J. Tenniel and J. D. Watson illustrating Goldsmith's Works, "Pilgrim's Progress," "Robinson Crusoe," Moore's "Lallah Rookh," and Longfellow's Poems have been mounted in five albums.

Forty-nine India proofs of woodcuts by J. Gilks from designs by J. Leech, illustrating the "Comic Latin Grammar," have been mounted in a volume.

New wrappers have been provided for the English historical prints and the works of Bartolozzi, Cipriani, and A. Kauffman.

One hundred and fifty-four drawings and 1,846 prints recently acquired have been incorporated with the collections to which they severally belong.

All books of prints and books of reference recently acquired have been catalogued, labelled, and placed.

A collection of duplicate engravings, in 233 frames, has been lent to the Wolverhampton Municipal Art Gallery and Museum and returned in good order.

The MS. of vol. i. of the catalogue of engraved British Portraits has been completed, and nearly the whole of the volume printed.

The preparation of vol. ii. of the catalogue of Early German and Flemish Woodcuts has been continued, the division dealing with the school of Augsburg has been printed, and that dealing with the schools of Ratisbon, Bavaria, and Austria completed in MS.

Vol. IV. (S-Z) of the catalogue of English Drawings has been completed and published and the preparation of a supplementary volume commenced.

The preparation of a full critical and descriptive catalogue of the collection of Japanese Woodcuts has been commenced.

The preparation of a catalogue of the collection of Early Italian Engravings has been continued and nearly completed in MS.

The etchings by C. Méryon, J. F. Millet and Jongkind, and the lithographs by J. Dupré and H. Daumier have been marked off in the new catalogues by Loys Delteil.

Titles have been written for articles in the "Gazette des Beaux Arts," "Zeitschrift für Bildende Kunst," and other foreign periodicals for the catalogue of books of reference.

An index has been drawn up of names of artists represented in the collection of prints of ornament.

Slips have been written for indexes to prints in the illustrated copies of Byron's "English Bards," etc., and Edwards's "Anecdotes," and for the collection of photographs presented by the National Photographic Record.

The preparation of slips for an index to the Banks collection of shopbills, etc. has been continued.

Registration.—5874 items have been entered in the Register of Acquisitions.

Stamping and Mounting.—5630 duplicates removed from the Franks collection of foreign bookplates have been stamped as such, and will in due course be returned to the executor.

6903 prints, drawings, etc., recently acquired, have been impressed with the departmental stamp and references to the Register.

The work of preparing, specially repairing and mounting a selection from the Cheylesmore collection of mezzotint portraits has been continued. 1260 "ordinary" mezzotints belonging to the same collection have been fixed in wrappers for their better preservation.

Seventeen drawings by Tintoretto have been repaired and mounted on sunk mounts with special borders.

One hundred and fifty miscellaneous drawings have been prepared and mounted on sunk mounts, and one hundred and seventy-seven German woodcuts have been mounted in the ordinary manner.

Students.—The total number of visitors admitted to the Print Room during the year ending 31 December 1907 was 8590, showing an increase on those for 1906 notwithstanding

the fact that the students' room was closed for four weeks for cleaning and painting.

Photographing.—Three hundred and forty-nine applications were made for leave to photograph objects in the collection, and 2284 photographs were taken.

II.—*Additions.*

The total number of prints, drawings, etc. acquired during the year was 4386, of which the following are the most important:—

ITALIAN SCHOOL.

Drawings.

Robusti, Jacopo (Tintoretto). A collection of ninety sheets of drawings, acquired and bound in an album about 1680 by Don Gaspar d'Haro e Guzman, Spanish ambassador at Rome and afterwards Viceroy of the Kingdom of Naples. This collection, hitherto unknown to students, is of the highest value and importance, and throws a quite new light on the methods and powers of this great Venetian master. It consists of eighty fine original compositions rapidly drawn, or more strictly painted, on paper, in tempera touched in the high lights with oil, together with four or five copies by pupils or imitators, and ten drawings in the artist's more generally known manner (black chalk or brush outlines); of these last five are on the backs of sheets having painted compositions on their fronts. The compositions are in some cases projects and first ideas for well-known existing pictures by the master (*e.g.* the Miracle of the Slave liberated by St. Mark, in the Venice Academy; the Miracle of the Saracen rescued by St. Mark from shipwreck, in the Royal Library at Venice; the St. Sebastian in the Scuola di San Rocco); in many other cases they are for pictures which either were never carried out or have perished. The same subject is often repeated with experimental modifications many times over. For the subject of St. Anthony tempted by demons in the form of women there are twenty-two different designs; for his persecution by beasts and hobgoblins, twelve; for the Miracle of St. Mark and the Slave, five; for St. Mark enthroned writing his gospel, three; for Christ's Charge to Peter, nine; for an unexplained myth or allegory of a woman seated on her child's cradle and receiving the homage of attendant figures, six; for another, possibly the descent of Hercules or Theseus to the underworld, five; for an allegory of War, three; for a reclining Venus, four. Subjects treated only once or twice each are the Baptism of Christ; Christ raising the widow's son; Christ healing in the synagogue on the Sabbath day; the Conversion of St. Paul; St. Mary

Magdalene in penitence; St. Sebastian; a pope bestowing a vestment upon a kneeling man; Diana and Calisto; Diana and Actæon; Arts and Arms paying homage to Bacchus; Neptune and the Tritons offering the spoils of the sea to Venice. In colour these compositions vary from monochrome to a full scale; in composition all show a high degree of energy, felicity, and resource, and, in handling, an extraordinary vigour and certainty of brush.

Etchings.

Zanetti, Antonio Maria. Twelve plates of peasants, etc.; after G. B. Castiglione.

GERMAN SCHOOL.

Drawings.

Dillis, George. Portrait of Sir Benjamin Thompson, Count Rumford; watercolours.

Engravings.

Flindt, Paul (of Nuremberg). Woman carrying a dish of fruit; design for a drinking cup; signed P. V. N.

Master of 1551 (M. Zündt?). Twenty-one plates of ornamental cups, ewers, candlesticks, etc., with the title "Insigne ac planè novum opus Cratero graphicum," etc., Nuremberg, 1551.

Zan, Bernhard. An ornamental ewer; signed B. Z. 1584.

SCHOOL OF THE NETHERLANDS.

Drawings.

Gallait, Louis. Twelve studies and sketches of figures and compositions for his pictures; pencil, chalks and watercolours. *Presented by William Strutt, esq.*

Engravings.

Bloteling, Abraham. Portrait of the wife of Jan Mieris; after Mieris; mezzotint.

FRENCH SCHOOL.

Drawings.

Fragonard, Jean-Honoré. Subject from "Don Quixote"; one of a set of nineteen formerly in the Denon collection; pencil and bistre. *Presented by J. C. Joyce, esq.*

Gillot, Claude. A fury presiding over groups of gamblers; red chalk. A group of girls surrounding a term of Cupid; red chalk.

Etchings.

Bléry, Eugene. Seventeen plates of landscape; in different states. *Presented by Messrs. P. and D. Colnaghi & Co.*

Fragonard, Jean Honoré. "L'Armoire." (Béraldi 2.)

Paris, Joseph François. Donkey, goat and hens. *Presented by Messrs. P. and D. Colnaghi & Co.*

Pissarro, Camille. Ten views of Rouen, published 1907. *Presented by Madame Pissarro and M. Lucien Pissarro.*

Lithographs.

Daumier, Honoré. Twenty-four humorous designs, "Croquis d'Expression," "Caricaturana," "La Journée du Célibataire," etc. *Presented by Campbell Dodgson, esq.*

Prints arranged to illustrate the Works of Masters.

Olivié, D. "Première Vue de l'Isle Barbe au milieu du Saône au dessus de Lyon"; by Martini and J. P. Le Bas. *Presented by Colonel Tudway.*

FOREIGN ARTISTS WORKING IN ENGLAND.

Drawings.

Fuseli, Henry, R.A. Medea killing the dragon of the Golden Fleece; oils on paper. A sibyl; pencil. A Maniac in the Hospital of S. Spirito at Rome; pen, bistre and Indian ink. *Presented by J. C. Joyce, esq.*

Lundgren, Egron Sellif. An acolyte; watercolours.

Etchings.

Legros, Alphonse. Eighty early plates, in various states. *Presented by the National Art Collections Fund.*

ENGLISH SCHOOL.

Drawings.

Bone, Muirhead. The Egyptian Saloon, British Museum, during repairs; pencil. Scaffolding on the staircase of the British Museum; gold point. *Presented by a group of subscribers through the National Art Collections Fund.*

Brabazon, Hercules B. Algiers; watercolours. View near Bristol; watercolours. Sunset, Madrid; pastels.

Burgess, William (of Dover). The Old Post, Salisbury; watercolours.

Charles, James. Ten studies of landscape and figures; watercolours and pencil. *Presented by Mrs. Charles.*

Clausen, George, A.R.A. Study for the picture "Going to Work"; black chalk. Study of head of the painter's daughter; black chalk, pencil and wash. Study for the picture "Building a Rick"; watercolours. *Presented by the Artist.*

Constable, John, R.A. Four studies of moorhens and a mouse; watercolours on brown paper.

Dance, George, R.A. Design for the mural tablet to the memory of Jeremiah Meyer the miniature painter in Kew church; Indian ink wash.

Evans, Samuel Thomas (of Eton). Floods at Windsor, 1866; watercolours.

Evans, William (of Eton). View on the Yorkshire coast; watercolours.

Furse, Charles Wellington, A.R.A. Thirty-four sketches and studies, including scenes in and near Johannesburg during the raid of 1896, sketches for spandrils in the Liverpool Town Hall, academical figures, etc.; chalks and pencil. Also a book containing sketches done at sea and in South Africa, and studies of huntsmen and hounds.

Gainsborough, Thomas, R.A. Portrait sketch of a lady seated in an armchair, holding a fan; black and coloured chalks.

Green, William. Ten views of scenery in the Lake district; pencil.

Hearne, Thomas. Holyrood Palace; Indian ink wash.

Hobday, William Armfield. Portrait of George Morland while in the rules of the King's Bench prison in 1800; pen and ink and watercolours.

Humphry, Ozias, R.A. Portrait of Mrs. Anne Pitt, sister of the Earl of Chatham; done at Rome 1777; pencil. *Presented by E. E. Leggatt, esq.*

Hunt, William. An old man wearing an apron, seated; watercolours.

Jackson, Samuel Phillips. A girl seated, holding a pitcher; pencil.

Landseer, Sir Edwin, R.A. A tiger; chalk and water-colour.

Leslie, Charles Robert, R.A. Twenty sketches and studies of figures, trees, interiors, etc.; watercolours, pencil and pen and ink. *Presented by G. D. Leslie, esq., R.A.*

Maclise, Daniel, R.A. Portrait of a lady, 1825; pencil. Portrait of Sir Walter Scott; drawn from life at Mr. Bolster's, Cork, 9 August 1825; pencil. A brigand firing at a cavalcade; a group of figures; two pencil sketches: *Presented by John Elliot, esq.*

New, Edmund Hort. Corfe Castle from the south; pen and ink. Cæsar's Tower, Warwick Castle; pen and ink. Lichfield Cathedral; pen and ink. Portrait of Rev. David Davis; pen and ink. *Presented by the Artist.*

Owen, Samuel. Marine subject, 1805; watercolours.

Reynolds, Sir Joshua, P.R.A. Original sketch for the figure of Comedy in "Garrick between Tragedy and Comedy"; black and white chalk.

Ross, Sir William, R.A. "The Union—Thistle, Rose, Shamrock"; watercolours.

Shepherd, George. Exeter Change, Strand; watercolours. St. Bartholomew's Hospital, Smithfield; watercolours.

Stevens, Alfred. Three sheets of studies for his picture of "Parmegiano at the sack of Rome"; red chalk and pencil. Five copies of figures by Della Robbia and another old master; pencil. *Presented by W. Bagshawe, esq., through the National Art Collections Fund.*

Strutt, Joseph. Portrait of himself; pencil. Portrait of Miss Anne Blower, afterwards Mrs. Strutt; pencil. *Presented by W. Strutt, esq.*

Strutt, William Thomas. Two portrait miniatures of himself; watercolours, one on ivory, the other on paper. *Presented by W. Strutt, esq.*

Tomson, Arthur. Four studies of cats; coloured chalks. *Presented by Mrs. Tomson.*

Wilkie, David, R.A. Nine sketches and studies for his pictures. *Presented by John Elliot, esq.*

Etchings.

Bone, Muirhead. The Great Gantry, Charing Cross Station, 1906; trial proof. *Presented by the Artist.*

Clausen, George, A.R.A. Twenty plates of portraits, rustic figures and groups, etc. *Presented by the Artist.*

Green, William. Seventeen views of scenery in the Lake district.

Merritt, Anna Lea. Thirteen plates; portraits and other subjects. *Presented by the Artist.*

Robinson, Sir John Charles. Cintra, Portugal—the Granite Country. *Presented by the Artist.*

Engravings.

Anonymous, 17th century. A group of the Protestant Reformers; "sould by Thomas Jenner at the Exchange."

Edwards, S. Arlent. The Duchess of Devonshire; after Reynolds; mezzotint. The Fortune Teller; after Reynolds;

mezzotint. The Fortune Teller; after W. Peters; mezzotint. Visit to the Boarding School; after G. Morland; mezzotint. All printed in colours. *Presented by the Engraver.*

Finnie, John, R.E. Eleven original plates of landscape; mezzotint.

Lucas, David. Thirteen small plates of American scenery, proofs before letters; mezzotint.

Strutt, Joseph. Portrait of Emily Anne Strutt; published with the title "The Blue Sash"; after J. Russell; stipple. *Presented by W. Strutt, esq.*

Woodcuts.

Dalziel Brothers. "The Parables of Our Lord"; after J. E. Millais; twenty proofs on India paper.

Prints arranged to illustrate the Works of Masters.

Guthrie, James. Thirty-one reproductions of original drawings; fancy subjects, designs for bookplates, etc. *Presented by the Artist.*

Stothard, Thomas, R.A. Twenty plates of biblical, historical and fancy subjects; engraved by Finden, J. Parker, J. Rogers, etc. *Presented by Mrs. Sydney Morse.*

JAPANESE SCHOOL.

Eight early woodcuts printed in colours, by the following artists:—Kiyomitsu, 2; Kiyohiro, 3; O. Masanobu, 1; Toyonobu, 2. *Presented by Sir Ernest Satow, G.C.M.G.*

Three hundred and twenty-four woodcuts printed in colours, including examples by the following artists:—Kiyomasu, 2; Kiyomitsu, 3; Kiyohiro, 1; Kiyotsuné, 2; O. Masanobu, 2; Toyonobu, 3; Toyomasa, 4; Harunobu, 8; Shigemasa, 4; Kitao Masanobu, 8; Shunsho, 9; Shunyei, 3; Shunzan, 8; Shunsen, 3; Kiyonaga, 22; Shuncho, 11; Shunman, 4; Shiko, 4; Banki, 1; Yeishi, 6; Yeisui, 1; Yeiri, 1; Yeizan, 2; Utamaro I., 12; Utamaro II., 1; Hidemaro, 1; Hisanobu, 2; Sekijo, 1; Toyokuni, 6; Toyohiro, 18; Kunihiro, 1; Hokusai, 55; Riuunsai, 1; Matora, 1; Hokkei, 3; Gakutei, 3; Hokujiu, 1; Shunko, 1; Hiroshigé, 28; Kunimaru, 1; Kunisada, 20; Yeisen, 2; Kuniyoshi, 7; Kunisada, II., 5; school of Toyokuni, 4; Yoshikadzu, 1; Shunnen, 1; Moronobu, 5; Morikuni, 9; Sukenobu, 7; Shunboku, 4; Ippitsusai Buncho, 1; Itcho, 2; Bunyo, 1; and Buichi, 1. *Presented by Sir Hickman Bacon, bart.*

Three hundred and ten woodcuts printed in colours, from the collection of Mr. S. Tuke, including examples by the following artists:—Kiyomitsu, 3; Kiyohiro, 1; O. Masanobu, 2;

Shunsui, 1; Toyonobu, 1; Toyomasa, 1; Harunobu, 13; Koriusai, 19; Shigemasa, 2; K. Masanobu, 2; Toyoharu, 1; Bokuriu, 2; Shunko, 7; Buncho, 1; Shunyei, 1; Shuntei, 3; Shunzan, 1; Shunsen, 8; Shunko II., 1; Kiyonaga, 13; Kiyomine, 3; Shuncho, 4; Shunman, 7; Shiko, 1; Yeishosai, 1; Yeishi, 6; Yeisho, 3; Yeizan, 5; Yeisen, 4; Yenshi, 3; Utamaro, 21; Kikumaro, 5; Bunro, 1; Shucho, 1; Toyokuni, 27; Toyohiro, 3; Toyokuni II., 5; Kunitora, 4; Kuniyasu, 3; Kuninaga, 1; Kunitsuna, 1; Riuisai, 14; Masadzumi, 2; Hokusai, 37; Hokuitsu, 1; Hokuba, 2; Shinsai, 3; Gakutei, 1; Hiroshige, 19; Kunisada, 5; Sadahide, 3; Kuniyoshi, 26; Hoshiu, 1; Hirokage, 1; and Chikamaro, 1.

Fourteen woodcuts by Hokusai, printed in colours, belonging to the series "Thirty-six views of Fuji." *Presented by W. C. Alexander, esq.*

Nine modern woodcuts illustrating the Russo-Japanese war printed in colours, including six by Kokyo and three by Gessan. *Presented by Dr. Ken Hoshino.*

HISTORY.

Triumphal Entry into Parma of the papal legate before the marriage of Elizabeth Farnese to Philip V. of Spain, December 1714; engraved by T. Vercruysse, from a drawing by Ilario Spolverini in the British Museum.

The choir of Parma Cathedral on the occasion of the above marriage; engraved by F. M. Francia of Bologna.

BOOKPLATES.

A collection of five hundred and ninety-one plates, chiefly French and German. *Presented by Max Rosenheim, esq., F.S.A.*

Plate of the George W. Mears, M.D., Memorial Medical Library, Philadelphia; engraved by J. H. Fincken. *Presented by Dr. J. Ewing Mears.*

The rare plate of the Croxteth Library, of which there is a copy in the Franks collection. *Presented by Sir Thornley Stoker.*

COLLECTIONS.

Ninety-five plates of incidents in the life of Louis XIV.; after Anton Frans van der Meulen, engraved by J. V. Huchtenburg, A. F. Bauduins, R. Bonnart, N. Cochin, C. Simonneau, F. Ertinger, and R. de Hooghe; together with thirty-one etchings by A. Genoels and six by A. F. Bauduins; bound in three vols. *Presented by Hon. Walter Rothschild.*

A volume of etchings by Giovanni Battista, Giovanni Domenico, and Lorenzo Tiepolo; issued after the death of the elder Tiepolo in 1778.

Two hundred and two platinotype photographs of ancient or interesting buildings and monuments in various parts of the United Kingdom; in continuation of the National Survey and Record. *Presented by the Secretary on behalf of the contributors to the Survey and Record.*

BOOKS OF PRINTS AND BOOKS OF REFERENCE.

Bénédite, Léonce. "Fantin-Latour; catalogue de l'oeuvre lithographique du Maître," 1906.

Bénédite, Léonce. "Drawings by J. F. Millet, with fifty facsimile reproductions," &c., 1906.

Bode, Wilhelm. "The complete Works of Rembrandt"; part 8.

Crawhall, Joseph. "Reynarde the Foxe"; ten drawings reproduced by S. Hurd. *Presented by W. B. Paterson, esq.*

Dickes, William Frederick. "The Norwich School of Painting," 1905.

Foster, J. J. "French Art from Watteau to Prud'hon"; vols. 2 and 3, 1907.

Gebhart, Emile. "Sandro Botticelli et son Epoque," 1907.

Hofstede de Groot, C. "Original Drawings by Rembrandt," part II., Nos. 51-100.

Lemonnier, C. "Alfred Stevens et son Oeuvre"; 1906.

Meyer, J. and W. Bode. "Die Gemälde-Galerie zu Berlin"; Lief. XXII-XXIII.

Michel, André. "François Boucher"; 1907.

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Veth, J. "Josef Israels und sein Kunst"; 1906.

Ward, T. Humphrey and W. Roberts. "Catalogue of Pictures in the collection of J. Pierpont Morgan at Prince's Gate and Dover House"; privately printed 1907; three vols. *Presented by J. Pierpont Morgan, esq.*

Williamson, G. C., Litt. D. "Catalogue of the collection of Miniatures the property of J. Pierpont Morgan"; privately printed, 1906; three vols. *Presented by J. Pierpont Morgan, esq.*

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Sidney Colvin.

DEPARTMENT OF EGYPTIAN AND ASSYRIAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, etc.*

EGYPTIAN ANTIQUITIES:—

The general re-arrangement of the Egyptian Collections has been continued and the greater number of the important objects acquired during the year have been incorporated and exhibited.

In the re-arrangement of the Egyptian Galleries the tables for offerings, or altars, which were dispersed throughout the Galleries, have been brought together in chronological order in two bays in the Central Saloon. Several covers of sarcophagi have been repaired. New stone shelves have been built into eight bays. The labelling of the exhibits has been continued.

A considerable number of the larger objects in the Galleries have been carefully cleansed.

Ninety-three granite plinths have been placed in position and "fixed"; fifty-one Caen stone plinths have been worked and placed in position; thirty-six white alabaster plinths have been worked and polished, and figures of gods and sacred animals mounted on them; and other figures and objects have been mounted on smaller pedestals.

Three funerary boats have been cleaned and repaired, and figures of their crews placed in position; four inscribed coffins of the XIIth dynasty have been repaired, and thirteen altars, twelve stelæ, and one hundred and forty-two miscellaneous objects have been cleaned, and several of them repaired.

755 scarabs, small figures of gods, etc., have been mounted.

One papyrus and seventeen fragments have been cleaned and mounted, 1,690 ostraka have been "boxed," 1,960 scarabs have been cleaned, and 134 painted plaster fragments have been rejoined.

362 labels have been written and painted, and attached to the objects; and 5,528 numbers have been painted on antiquities, etc.

4,518 objects have been registered. 890 descriptive slips for the new Guide to the Egyptian Galleries have been written. 14 stone stelæ have been copied and catalogued, and 31 wooden stelæ have been catalogued.

2,746 slips for a catalogue of scarabs have been written, and 3,049 have been revised for press.

ASSYRIAN ANTIQUITIES :—

The general re-arrangement of the unexhibited section of the Babylonian and Assyrian Collections has been continued.

The Kuyunjik collection has been verified with the registers.

133 tablets have been cleaned and repaired ; a number of case tablets have been opened, and the fragments of the cases rejoined ; casts of nineteen cylinder seals have been made and mounted with the seals on blocks.

1,374 tablets have been registered, various texts have been collected, copied, collated, and arranged for publication in fifty plates. Eighteen boundary stones have been catalogued, and the texts arranged to form a series of one hundred and eight plates.

1,164 slips from a Catalogue of cylinder-seals have been written and revised for press ; and an Introduction and a list of proper names have been written for the edition of the Behistun texts.

A slip-list of registration numbers, and a list of the tablets bearing seal impressions have been made.

“The Sculptures and Inscription of Darius the Great on the Rock of Behistun in Persia. A new collation of the Persian, Susian, and Babylonian Texts, with English translation,” has been completed and issued.

Students.—2,550 visits have been made to the Department by students and others ; and 6,100 objects have been issued for their use.

Personally conducted Parties.—Forty-seven parties have been personally conducted through the Department by members of the staff, the number of persons being one thousand and forty-two, including many pupil teachers and scholars from the London County Council Schools. The parties came from educational and social clubs, schools, etc., at Bow, Battersea, Barnsbury, Edmonton, Greenwich, Holloway, Hornsey, Islington, Kilburn, Leytonstone, Paddington, etc.

II.—Acquisitions.

EGYPTIAN :—

- i. A large and miscellaneous collection of Egyptian antiquities, consisting of about one thousand objects, belonging chiefly to the VIth and XIth dynasties, from the excavations carried out by the Trustees in

the neighbourhood of Asyut in Upper Egypt. Among these may be mentioned:—

1. A fine blue paste cylinder seal inscribed with the names and titles of Pepi I. VIth dynasty, B.C. 3300.
2. Light blue faience spiral bugle bead. VIth dynasty.
3. Two button seals. VIth dynasty.
4. Large rectangular wooden coffin of Neb-hetep, an official of the temple of Pepi I. VIth dynasty.
- 5-8. A group of four rectangular wooden coffins of Neferu-aker, Senkeku, the sculptor, and Hunnu and Khuat, private persons. All these are painted in white, or light yellow, and bear hieroglyphic inscriptions painted in green or blue. VIth dynasty. About B.C. 3300.
- 9, 10. Two coffins, of unusual dimensions, which were made for the Princess Atechni, and Kareru the sculptor. The occupants of these coffins appear to have been buried in what is commonly called the "pre-natal position." VIth dynasty. About B.C. 3300.
- 11-18. A group of well-carved, and well-proportioned wooden figures, of various sizes, representing the servants, male and female, of the occupants of the tombs. VIth dynasty. About B.C. 3300.
19. A group of limbs of wooden figures of men and women, at the joints of which are incised figures of protecting gods. Chiefly of the VIth dynasty. About B.C. 3300.
- 20, 21. Two complete wooden models of bakeries, with figures kneading dough and tending the furnaces. VIth dynasty, B.C. 3300.
- 22, 23. Two turtle shells. From a tomb of the VIth dynasty. These appear to be the oldest known turtle shells of the Dynastic Period, and it is probable that they were buried in the tomb in connection with the belief referred to in the Book of the Dead (Chap. CLXI.) where it is said, "Rā liveth, the turtle dieth."
- 24-31. Eight models of alabaster vases. VIth dynasty, B.C. 3300.
32. A collection of twenty-six wooden head-rests, or "pillows." VIth-XIth dynasties, B.C. 3300-2600.
33. A large collection of earthenware vases, pots, saucers, jars, etc, of coarse make and various colours. VI-XIth dynasties, B.C. 3800-2600,

34. A series of limestone tables for offerings, or altars, some of which are inscribed. VI-XIth dynasties, B.C. 3300—2600.
35. A collection of terra-cotta dishes filled with models of joints of meat, bread-cakes, and vases of wine, beer, unguents, etc. VI-XIth dynasties, B.C. 3300-2600.
- 36, 37. Two acacia wood bows, with bundles of flint-tipped reed. or bamboo, arrows, and an archer's wrist guard, and gut for stringing the bows. VI-XIth dynasty, B.C. 3300-2600.
- 38-42. Models of wooden boats, with crews. XIth dynasty, B.C. 2600.
43. A painted stone stele of Uapai, an official, XIth dynasty, B.C. 2600.
44. Rectangular wooden coffin of Ānkhf-aker, painted in blue and yellow. XIth dynasty, B.C. 2600.
45. Painted wooden box for holding a set of "Canopic" jars; fine example. XIth dynasty, B.C. 2600.
46. A wooden grating for placing under the mummy in a coffin. A very rare object. XIth dynasty, B.C. 2600.
47. A miscellaneous collection of objects, scarabs, porcelain and glass beads, amulets, figures of gods, etc. XIth and following dynasties.
48. A large painted terra-cotta vase decorated in blue with figures of hawks, etc. XIXth dynasty, B.C. 1300.
49. A group of mummied Apis calves, birds, snake, etc. XVIIIth to XXVIth dynasty.
50. Twenty-six fragments of papyri inscribed in the hieratic character. XIX-XXth dynasty.
51. A basket-work sieve, and a miscellaneous group of sandals, ropes, baskets, etc., of various periods.
- 52-53. Two rudely painted coffins, daubed with mud, late Græco-Roman Period.
54. About 50 fragments of papyrus inscribed in Greek and Coptic.
- ii.—1. Four fragments of limestone reliefs painted with portrait heads. From Dêr al-Bahari. XIth dynasty.
2. A group of fragments of reliefs, with specimens of fine work. From Dêr al-Bahari. XIth dynasty.
3. Lower portion of a seated granite figure of a scribe. XVIIIth dynasty.

4. A group of 12 terra-cotta tables of offerings, with models of offerings upon them. Archaic Period. B.C. 3800.
 5. A pair of wooden paddles from the funeral barge of Amen-hetep II., B.C. 1500. The blades are in the form of hands, and the ends terminate in hawk's heads. XVIIIth dynasty.
 - 6-9. Four painted wooden boxes for ushabtiu figures; one is inscribed in Demotic, and another has a figure of a jackal upon it. B.C. 500-300.
 10. A group of terra-cotta models for making jewellery, pendants, figures, etc.
 - 11-13. Three hard stone vases. Archaic Period. B.C. 3800.
 14. Five fragments of vases inscribed with the names of Thothmes I., King of Egypt. About B.C. 1600.
 15. A large bronze figure of Isis suckling Horus. From Bubastis. XXVIth dynasty, B.C. 600.
 16. Bronze vase, with a hinged cover. Late Period.
 17. Bronze statue of an official holding a figure of Osiris. Late Period.
 18. Bronze ring, with scarab. XXVIth dynasty.
 19. Portion of a slab from a building inscribed with the name of Ankh-nes-nefer-âb-Râ, daughter of Psammetichus II. and Taphauath. XXVIth dynasty. B.C. 600.
 20. Inscribed angle post from the sarcophagus of Ptahmes. Ptolemaic Period.
 21. Bronze figure of Eros, wearing the Crowns of the South and the North. Graeco-Roman Period.
 22. A collection of 1600 ostraka, inscribed in Greek, Demotic, and Coptic. The Greek ostraka contain chiefly receipts for taxes, and the Coptic extracts from the Scriptures, letters, etc.
 23. Four Coptic stelæ, on one of which are sculptured the figures of two saints. IXth or Xth century A.D.
- iii.—1. A small stone figure of Amenartâs, the daughter of Kashta, the grandson of Piânkhi, the Sudani King of Egypt, and high priestess of Amen-Râ at Thebes. She appears with the attributes of Isis and Hathor. Fine work. XXVIth dynasty. B.C. 600.
2. Portions of the bronze framework of a door of the temple of Amen-Râ at Thebes. B.C. 1200.
 3. A wooden footstool, the place for the feet being made of twisted palm fibre plaited. A rare object. XIIth dynasty. From Kurna.

4. Ivory plaque inscribed with the prenomen of Amen-em-hât. From Kurna. XIIth dynasty.
 5. Half of a large granite bowl which was made for the official Tehuti-mes, who flourished under King Amen-hetep II. and Thothmes IV. B.C. 1500.
 6. Limestone stele sculptured with the figure of the deceased kneeling before a jackal standard. Below are cut figures of 54 jackals, arranged in 9 lines, which take the place of the usual hieroglyphic inscription. Period uncertain.
 7. A bronze bolt, terminating in the head of a lion. Late Period.
 8. A collection of 1,181 scarabs, made of steatite, with white, drab, or yellow glaze, on which are cut hunting scenes, figures of animals, devices, monograms, designs, etc., which are peculiar to scarabs found in the Delta or Lower Egypt. The scarabs in this collection belong to all periods, but among them is an important group which was made between the XIIth and XVIIIth dynasties, and illustrates the method of scarab decoration under the Hyksos, or Shepherd Kings.
 9. A large seated granite figure of a King of Egypt, whose prenomen reads Râ-uatch-sekhem-tai, who reigned probably about B.C. 2000. It belongs to the period of the XIIIth or XIVth dynasty, and monuments of this King's reign are very rare.
- iv.—1. A collection of 113 white and grey glazed steatite scarabs, amulets, plaques, etc., many of which are inscribed with royal names. Vith to XXVIth dynasties.
2. A gilded, inlaid bronze beard, from a mummy or mummy-case. XIXth dynasty.
- v.—1. An amethyst ape, which formed the pendant of a necklace. XIIth dynasty.
2. Four linen balls covered with papyrus and painted in imitation of the fruit of a tree. XVIIIth dynasty.
 3. Limestone stele on which are cut figures of 21 ibises; it appears to have been set up in memory of a number of sacred ibises which belonged to a temple. Late Period.
- 4, 5. Limestone stelæ sculptured with figures of deceased persons kneeling in adoration before jackal gods on standards; examples of this class of antiquity are uncommon.
6. Stele sculptured with a scene representing Amasis II. presenting an estate to Râ and Isis, and dated in the first year of his reign. XXVIth dynasty.

7. Stele of Petā-Nefer-hetep. Ptolemaic Period.
 8. A collection of 655 scarabs, amulets, plaques, etc., of all kinds. VIth to XXVIth dynasties.
 9. Painted wooden *ushabtiu* box of Sheps-mes-enkhen, a priestess. XXVIth dynasty.
 10. A large leaden cross, set up to commemorate the monks Macarius, Severus, Thôte, Shenuti, and others in the year 650 of the Era of the Martyrs, *i.e.*, A.D. 934. The letters, figures, etc., are in relief. A rare object.
- vi.—1. A large, massive "false door" from the *mastaba* tomb of Asa-ānh, a high official who held the rank of Smer-uat and Utcheb, or chief high-priest of Horus, under King Tet-ka-Rā, who reigned about B.C. 3330. This very important object is probably the finest example of its class in Europe. It is covered with texts which record the titles and offices of the deceased, and is of value for purposes of grammar and philology. Vth dynasty.
2. The base and capital of a granite column which was one of the four that supported the roof of the portico in front of the Pyramid of King Unas. About B.C. 3000.
 3. A massive grey granite sarcophagus of the "anthropoid" class, of Uah-ab-Rā, a controller of the revenue of the district of Memphis, and scribe of the taxes. The inscriptions are archaic in character, and many of the words are spelt as in the texts written under the Vth dynasty. The deceased probably flourished in the reign of Psammetichus I., about B.C. 640. XXVIth dynasty.
 5. Hard stone statue of Uah-en-Menthu, holding a tablet inscribed with a hymn to the Sun-god. The deceased was high-priest of Menthu, and presided over the administration of the temples at Thebes during the reign of Hātshepset, about B.C. 1600. From Thebes. XVIIIth dynasty.
 6. A gilded coffin of Hent-Mehit, a lady of high rank, and priestess of Amen-Rā, the great god of Thebes, and gilded mummy covering, with figures of the gods cut in hollow-work, and backed with a layer of the purple linen of Egypt. From Thebes. XXIInd dynasty. About B.C. 1040.

ASSYRIAN:—

- i.—1. Bronze figures of the Elamite King, Kudur-Mabug, who reigned over Elam about B.C. 2,000, carrying on his head a vessel filled, probably, with offerings, and performing a ceremony which seems to have been similar to that performed by the canephoros

among the Greeks and Egyptians. On the body of the figure is cut, in two columns, a text which states that Kudur-Mabug, the Governor of Western Elam, and his son, Rim-Sin, King of Larsa, in Southern Babylonia, built a great temple, which was "like a mountain," in honour of the god Ninni, to ensure the preservation of their lives. The inscription ends with a prayer to Ninni to grant long life to the father and the son, and established rule, and the wielding of royal power for ever.

2. A "Kudurru," or Boundary Stone, inscribed with a text recording a grant of certain cultivated land, situated in Southern Babylonia, to Gula-eresh, by Eanna-shum-iddina, Governor of the Persian Gulf, the son of Daiam-Bel. This land was situated on the bank of the Edina Canal, near the town of Edina, in the province of the Sea-Land. On one side of it was the property of the tribe of Iddiatu, and on the other the land of Amél-Marduk. The estate of Gula-eresh was carefully measured by the governor of the city of Edina and others, and duly registered; Gula-eresh had this stone cut and inscribed, and the great gods set it up as a witness. On the upper portion of the stone are cut the emblems of the great gods, and on the reverse are adjurations to various officials and others who are called upon to respect the claim of Gula-eresh, and to do no injury to the stone, his title-deed. These are followed by a series of curses upon anyone who should harm or conceal the stone, the gods Anu, Enlil, Ea, Nin-makh, Sin, Nabû, Gula, and Ninib being invoked. About B.C. 1100.
- ii. A collection of small stamps and seals from Asia Minor:—
1. Flat, circular seal inscribed with "Hittite" characters. In the centre, on both the obverse and reverse, are four large characters which probably give the name of the owner of the seal. Round these, on each side, is an inscription in smaller characters.
 2. Bronze seal, inscribed with "Hittite" characters within a line border; it is provided with a ring for suspension.
 3. Steatite scaraboid, on which is cut the figure of an ibex leaping.
 4. Cylinder seal, with three divisions, in each of which is cut a seated human figure, with both hands raised in adoration, libation vase, etc.

5. Steatite semi-circular seal, on which are cut figures of serpents, line patterns, and bosses arranged symmetrically.
6. Haematite seal, on which is cut a figure seated by a table of offerings; near it are divine emblems.
7. Steatite stamp on which are cut heads of bulls and ibexes arranged symmetrically.

HIMYARITIC :—

1. Portions of an inscription recording the dedication of a building to a god. B.C. 700.
2. Bronze lamp, with a curved handle in the form of an oryx, or gazelle. Late Period (Roman?).
3. Bronze censer, on stand, with cover. Roman Period.
4. Bronze handle of a large vessel for holding water. About A.D. 250.
5. Bronze handle of a vessel, ornamented with flutings and raised rings; it terminates in the head of a ram with horns curving downwards by the sides of the face.
6. Bronze figure of a camel.
7. Portions of a face from a statue. Late Period. This group of Himyaritic objects came from ancient sites in the Hadhramaut, in Yaman, Arabia.
8. Lower portion of a limestone figure of a man. Period unknown.

III.—*Presents.*

- i.—1. Six large, and 200 small fragments of the walls and pilasters of the shrine of Kemsit, a priestess of Hathor, sculptured with scenes representing King Menthu-hetep II. and his Queen Aashait making offerings to the gods, and Kemsit receiving offerings, etc. XIth dynasty, B.C. 2500.
2. Four fragments of lily pillars and one capital from the shrine of Kemsit. XIth dynasty, B.C. 2500.
3. Slab sculptured in relief with the winged disk and uraei, and the head of King Menthu-hetep, probably from the shrine of Queen Aashait. XIth dynasty, B.C. 2500.
4. A group of specimens of hieroglyphics sculptured in shrines at Dêr al-Bahari in high relief. XIth dynasty, B.C. 2500.
5. A series of slabs with reliefs illustrating the campaign of Menthu-hetep II. against the rebels of the Aamu. XIth dynasty, B.C. 2500.

6. Slab with relief representing a Libyan prisoner.
7. Slab with relief representing the presentation by the King of a collar of honour to the chancellor Henket.
- 8, 9. Fragments of slabs on which are cut the names of Henket and Kheti, chancellors of Menthu-hotep II.
10. Fragments of sandstone reliefs from the western hall of the temple of Menthu-hotep II.
11. Two pieces of octagonal columns, on which are cut the cartouches of Menthu-hotep II.
12. Limestone relief, representing the King being embraced by the god Rā. From the cella of the Temple of Menthu-hotep II.
13. Slab with relief representing a boat on the Nile.
14. Historical inscription of Menthu-hotep II.
15. Pavement slab from the temple of Menthu-hotep II., on which are cut in outline a pilgrim's foot and the name Hui.
16. Three wooden figures of servants, a model of a cow-hide shield, a group of models of vases, a boat, model of an ox bound for sacrifice, broken bows, with wood arrow-tips, and a boomerang. From the tomb sanctuary of Menthu-hotep II.
17. Cover and fragments of a "Canopic" jar of Menthu-hotep II., and a piece of his coffin.
Nos. 1-17 are of the XIth dynasty, B.C. 2500, and are from Dêr al-Bahari.
18. Models of vases, specimen of *sent* wood, model bolt, and model *sekhem*. XIth dynasty.
19. A group of miscellaneous fragments of reliefs. XIth-XVIIIth dynasties.
20. Clay impression of a seal. XIIth dynasty.
21. Sandstone fragment with the name of Heru-meritai. XIIIth dynasty, B.C. 2100.
22. Fragment of an inscription mentioning Sebek-em-saf, a King of the XIIIth dynasty.
23. Portion of a stele with the figure of Queen Aahmes-Nefert-ari.
24. Portion of a granite plinth with the name of Thothmes I. in an unusual form.
25. Stone fragment with the name of Khebt-neferu, a princess.
26. Fragment of a relief with figures of soldiers marching and carrying branches. From the temple of Hâtshepset.

27. Granite figure of the priest Tchoui, with a relief showing the sacred cow of Hathor.
28. Slices of limestone, on which are drawings of a dog and a girl.
29. Votive cloth, painted with a scene representing the worship of Hathor.
30. Bones of a sacred cow of Hathor.
31. Large ear amulet in red pottery.
32. Pottery figures of a man and an ape.
33. Large shell and pieces of card, and model of a flower.
34. Specimens of blue glazed porcelain bowls, etc.
35. Specimens of painted red ware vases.
Nos. 23-35 are of the XVIIIth dynasty.
36. Four jar-sealings. XVIIIth and XIXth dynasties.
37. Two funerary cones. XVIIIth and XIXth dynasties.
38. Three *ushabtiu* figures. XVIIIth to XXVIth dynasty.
39. Three vases. XVIIIth to XXVIth dynasties.
40. Specimens of hieratic *graffiti*. XIXth dynasty.
41. A mat. XIXth dynasty.
42. Embalmer's bag of natron. XIXth dynasty.
43. Triple brush and mallet. XIXth dynasty.
44. Stone trough. XIXth dynasty.
45. Torso of a figure of Osiris wrapped in a fringed mantle. Later Period.
46. One hundred and twenty-six Hieratic, Demotic, and Coptic ostraka.

All the above are from Dêr al-Bahari.

47. Small glass human head.
48. Green glass bottle.
49. Wooden figure of a soldier.
50. Six Greek ostraka. IInd to VIth cent. A.D.
51. Reed cross. Coptic Period.

Nos. 47-51 are from Behnesa (Oxyrrhynchus).

Presented by the Egypt Exploration Fund.

- ii.—1. Bronze figure of the Bull Mer-ur, or Mnevis. XXIInd dynasty.
2. Bronze figure of Ptah, on the pedestal of Maât. XXIInd dynasty.
3. Bronze figure of Bast, holding an aegis. XXIInd dynasty.

4. Bronze figure of Thoth, ibis-headed. XXIIInd dynasty.
5. Bronze figure of the goddess Neheb-kau. XXIIInd dynasty.
6. Bronze figure of Harpokrates, with the attributes of Amen. XXIIInd dynasty.
7. Bronze figure of a seated cat. XXIIInd dynasty.
Presented by the daughters of the late Samuel Sharpe, Egyptologist.
8. An alabaster slab sculptured in relief with a figure of an eagle-headed god standing by a sacred tree, and inscribed with a historical text of Ashur-natsir-pal, king of Assyria, B.C. 885-860. From the palace of Ashur-natsir-pal at Nimrud (Calah).
Presented by W. Howard, esq.
9. Wooden figure.
10. Wooden head-rest, or pillow. XIIth dynasty.
Presented by J. H. Skillbeck, esq.
11. Limestone head from a statue at Palmyra.
Presented by G. P. Devey, esq.,
H.B.M.'s Consul at Damascus.
12. Porcelain figures of Bes and Nefer-Atmu. XXVIth dynasty (Nos. 43,058, 43,378).
13. Steatite figures of Bes and Nefer-Atmu. XXVIth dynasty (Nos. 43,379, 43,397).
Presented anonymously.

E. A. Wallis Budge.

DEPARTMENT OF GREEK AND ROMAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, &c.*

In the Terracotta Room the new wall cases on the north side have been finished, and two pedestal cases fitted; the collection of terracottas has been re-arranged and in great part remounted. The arrangement of the Room of Greek and Roman Life has been completed. All the cases in the Bronze Room have been refitted, and the bronzes re-arranged, and the mounting of many of the larger pieces has been altered. Wall-cases in the Fourth Vase Room have been fitted for the exhibition of Roman pottery, and the Roman lamps have been moved from the Terracotta Room to a table-case in this room. The Greek statue from Trentham has been set up in the Phigaleian Room. In the Elgin Room many plaster casts of fragments of the sculptures of the Parthenon which are in Athens have been fitted in their places; the glass covering the Parthenon frieze has been removed and refixed; and a table-case has been altered for the exhibition of sculptural fragments. Two restored capitals and a column-base from the Temple of Artemis have been moved from the Archaic Room to the Ephesus Room and plaster columns have been built up beneath the capitals. The new wall-cases in the Greek Ante-Room have been completed, and the collection of smaller sculptures in stone and marble arranged in them. The restored columns from the doorway of the "Treasury of Atreus" at Mycenae have been fixed in position in the wall of the Archaic Room.

The collection of casts of Greek and Roman sculpture has been transferred from the Victoria and Albert Museum at South Kensington to the British Museum, and is now stored in the Mausoleum Room and the basements pending the construction of a special gallery for its proper exhibition.

The antiquities from the excavations at Ephesus, which were temporarily deposited in the British Museum, have been returned to the Imperial Ottoman Museum at Constantinople, excepting some duplicates and pieces of minor importance which were allotted to the Museum by the Turkish Government.

Sixteen new moulds have been made from the sculptures. Sixteen marble vases, a marble head, 39 statuettes, a relief, 2 terracotta slabs, and many architectural sculptures have been mounted on pedestals of stone or marble; 281 terracottas, 13 bronzes, and many miscellaneous objects have been mounted on wooden blocks.

Six alabaster figures, 37 bronzes, 13 ivories, 186 leaden seals, 129 terracottas, 66 vases, and various other antiquities

have been cleaned or repaired. Thirty-five imperfect bronzes have been completed by the restoration of the missing parts.

One thousand six hundred and nineteen objects have been registered, 1,647 numbered; 680 labels have been written, and 356 labels printed in the Department.

The Catalogue of Finger Rings has been published, and a new edition of the Guide to the Department has been issued. The publication of the British Museum Excavations at Ephesus has been prepared for press.

Progress has been made with the Catalogues of the First Vase Room, the Roman Pottery, and the Gold Ornaments, with the Guide to the Room of Greek and Roman Life, and with a new edition of the Guide to the Sculptures of the Parthenon.

Students.—The number of visits to the Students' Room for purposes of research has been 428; 1,565 other visits to the Staff for purposes of inquiry, and 1,206 attendances of students in the Sculpture Galleries have been entered.

II.—*Acquisitions.*

By Purchase.

I.—*Objects in Gold.*

1. Eight stamped plaques pierced for attachment, one of them ornamented also with filigree work.

These resemble the primitive treasure found in the recent Museum excavations at Ephesus, and are probably from that site.

2. Pair of earrings in the shape of clubs terminating in lions' masks, to which are attached pendent amphorae made of black and white glass and gold. The clubs are prolonged at each end by twisted wire, forming a loop to fit over the ears.

3. Sixteen stamped bracteate plaques, of which fourteen are copied from coin-types; they include pieces of Olbia, Naxos, Magna Graecia, and Rome.

4. Fifteen amulets or pendants, one set with a plasma gem, another with a sard, and another with a sardonyx cameo representing Eros leaning on a column.

5. Necklace of 106 gold and 52 glass beads, strung in such a way as to suggest a bead-and-reel pattern.

2-5 from Olbia.

7. Ring, set with a golden sard intaglio: a youthful head of Hermes with caduceus. Roman, 1st century B.C. Found in a tomb in the island of Lipari. (*Journ. Hell. Stud.*, VII., p. 51; *Brit. Mus. Catalogue of Finger Rings*, p. xiii., No. 1655.)

II.—*Silver.*

1. Ring, with intaglio design carved in the bezel: a girl dancing, carrying an amphora on her shoulder.

A specimen of modern imitation of the antique.

2. Spoon, the handle turned in plain mouldings. From Egypt.

3. Bezel of a ring, carved with an intaglio of Eros riding on a dolphin. It has been set with two gold studs, of which one only remains. Greek, 4th century B.C. From Rhodes.

III.—*Bronze.*

1. Bell of unusually large size, with an iron clapper. It was probably a cattle-bell. Said to have been found at Pompeii.

2. Statuette of an Augur, robed perhaps in the *trabea* and holding a *lituus* in his right hand; the left has held something which is now missing, perhaps an *ancile*. (Compare Virgil, *Aeneid*, VII., 187.)

The figure is cast solid, and seems to be Etruscan work of the early part of the 5th century B.C. Formerly in the Forman Collection. (*Forman Sale Catalogue*, June 1899, No. 55, pl. II.)

3. Statuette of Aphrodite, nude, holding up in her right hand a wreath or *cestus*, and wearing a crown of flowers. The figure is of unusually large size for a bronze of this motive, and stands on an antique pedestal. From Jerusalem.

4. A snake, crawling; probably a votive offering.

5. A buckle and a clasp, the latter in the form of a crouching animal. Part of the leathern belt is still attached to the clasp. From Olbia.

6. A kantharos, of the best Greek period; similar to those found at Galaxidi. From Anactorion.

7. A bistoury of rare form, with a slotted shaft.

8. Statuette of Aphrodite holding a wreath, and wearing a headdress in the shape of a dove.

9. A circular brooch-plate with sunk patterns in red, white, and blue enamel: daisies and geometrical designs.

10. Spoon with handle terminating in the form of a stag's antlers.

8-10 from Egypt.

11. Statuette of an athlete scraping himself with a strigil. Greek work, of about 500 B.C.; an interesting early example of the type afterwards made famous in the *Apoxyomenos* of Lysippos.

12. Bust of a human figure wearing a headdress composed of five vertical reeds and a ball, and a twisted necklace with pendant; the hair is braided, and in the hands are a

cone and a cornucopia. The work is barbaric. From Syria. Formerly in the Gilbert Collection. (*Vente Serrure*, 24, 1, 1903, pl. I. Reinach, *Rép. de la Stat.*, III., p. 267, No. 9, where it is described as a "Syrian Priest.")

13. A vase, engraved with patterns which show survivals of Greek decorative motives. From Kaalal Shergat.

IV.—*Iron.*

1. Knife with bone handle, on which are carved reliefs of a dog chasing a stag and a man hunting a lion.

2. Knife with wooden handle, on the end of which is carved a human head. The blade was protected by a sewn leather sheath, which is entirely preserved.

1-2 from Egypt.

V.—*Lead.*

1. A series of stamped and pierced reliefs, representing *boucrania*, figures of Heracles, Victory, &c.

2. Hand-mirror, of which the reflector is a convex glass disc; in miniature size, probably a model or a child's toy.

1-2 from Olbia.

3. The lid of a vase, ornamented with two wolves' heads on opposite sides. From Egypt.

VI.—*Gems.*

1. Carnelian intaglio: a girl carrying amphora and dish, approaching a statue of Eros on a column. From the ruins of a Roman building near Mabeul, Tunisia.

2. Smoky quartz intaglio: Eros kneeling on a rock and shooting with bow and arrows, Aphrodite standing behind him. From Halos in Thessaly.

3. Amethyst intaglio of large size and convex shape: a portrait of the Emperor Constantius II. The stone is in remarkably good condition, being only slightly chipped at the edge. It is an admirable example of the best gem-engraving of the late period, of which very few specimens have survived.

4. Agate scaraboid intaglio: a centaur carrying off a nymph. Greek, 5th century B.C.; a fine gem of the best period.

5. Red jasper intaglio: a shepherd with a goat at a tree, in which is a bird's nest.

6. Four roughly worked carnelian gems; one is engraved with a satyr holding a bow, and another with two goats at a tree, in the style of the archaic "island" gems; the others have no design. From Olbia.

7. Amethyst intaglio: the signs of the Zodiac and heads representing the Days of the week, arranged round a head of Helios.

8. Sardonyx intaglio: Heracles running, with sword and spear.

7—8 from Egypt.

9. Sard intaglio: a rabbit within the hoop of a finger-ring, a bust, two Cupids, two cranes, and an inscription—FELIC [*Felic(is)* ?].

10. Carnelian scarab intaglio: a soldier on horseback, accompanied by a large war-dog; beneath, a lion's mask. Probably Ionic work, of the 6th century B.C. From Samos. (There is a gem of similar design, but inferior execution, in the Hermitage Museum at St. Petersburg: Furtwängler, *Antike Gemmen*, pl. VIII., 63.)

VII.—*Jet.*

1. Three carved pendants, with loops of bronze wire for suspension. They are respectively in the form of an altar, a pigeon, and a rhinoceros embracing an elephant. From Olbia.

VIII.—*Bone and Ivory.*

1. Statuette of a draped woman, of minute size; the hands held stiffly by the sides.

This statuette resembles the primitive ivory figures found in the recent Museum excavations at Ephesus, and is probably from that site. (*B.M. Excavations at Ephesus*, pl. XXIV., fig. 5.)

2. Handle of cylindrical shape, carved in relief with figures of a lion and a deer, both galloping. Ionic Greek, 5th century B.C.

3. A series of carvings, including a pointed oval plaque with a relief representing a Dionysiac ceremony, a grotesque head, a pin surmounted by a woman's head in a turreted crown, and other pins.

IX.—*Marble and Stone.*

1. A group of Heracles and the Hydra, representing a rare version of the myth. The Hydra is shown as a serpent, coiled round the left leg of Heracles, but terminating above in the bust of a woman, from whose head smaller snakes issue. This type does not appear in art until the Roman period; it is found in reliefs decorating sarcophagi, but only two other instances are known of groups in the round, while this example is the clearest at present known. (For the treatment of the subject, see Ulrichs in *Görlitz Verhandlungen*, 1890, p. 312.)

2. Laver consisting of a bowl, decorated inside with a Gorgon's head and outside with signs of the zodiac, and supported by four legs, each of which bears a sculptured panel in the neo-attic style; the whole stands in a floriated basin which rests on lions' heads. Roman, 1st century B.C. (*Trentham Sale Cat.*, 17 July 1907, No. 855.)

3. Rectangular altar, the sides decorated with floral festoons which are suspended from rams' heads on the angles. At one end a bowl, at the other a jug. Roman, early Imperial. (*Trentham Sale Cat.*, No. 857.)

4. Statue of a woman, life-size, closely wrapped in drapery and standing in a mourning attitude. On the plinth a late Roman inscription, P · MAXIMINA · SEXTILI · CLEMENTIS. Greek, 4th century B.C. (*Burlington Magazine*, 1908, p. 331; *Trentham Sale Cat.*, No. 858)

5. Laver consisting of a fluted basin, resting on two lions' legs, which terminate above in wings, and lions' heads, and on a central column which is sculptured as a palm-trunk; these stand on an oval platform, which is separated from a richly carved plinth by six blocks in the shape of human heads. Roman, 1st century B.C. (*Trentham Sale Cat.*, No. 856.)

2-5 from the Duke of Sutherland's collection at Trentham Hall.

6. Stele with relief of a youth holding a bird. Inscribed ΣΤΡΑΤΙΟΣ.

7. Stele, upper part, with relief of the head of a woman within a shrine. Inscribed ΙΕΡΟΚΛΕΙΑ ΝΑΥΣΙΝΙΚΟΥ ΕΚ ΚΕΡΑΜΕΩΝ.

8. Stele, fragment, with relief of the upper part of a bearded man.

9. Mould in black stone for casting a graduated series of four weights, numbered successively A, B, Δ, Η.

10. Fragment of painted and carved stone architrave. From Tel-el-Yehudiyeh. It forms part of a series of triglyphs and metopes; in the latter is sculptured an Atef crown in relief.

X.—*Terracotta.*

1. Statuette of a goddess of archaistic style.

2. Statuette of woman with fan.

3. Girl seated.

1-3 are specimens of modern imitation of the antique.

4. Nereid riding on a sea-horse with the helmet of Achilles in her hands. Painted in bright colours. Attic work, 4th century B.C.

5. Group of two gladiators fighting.

6. Boy draped in a long robe covered with raised dots, which is probably meant to represent a skin.

7. Group of a woman seated and a boy reclining on a couch at a banquet. Fine modelling on a minute scale.

8. Comic actor draped as a woman, a fruit in his left hand his face covered with his right.

9. Comic male figure, nude, holding up a purse in his left hand and gesticulating.

10. Two grotesque figures of hunchbacks, one holding a dagger, and the other a lamp.

11. A youth holding a hare in his arm; of large size, vividly painted.

12. Persephone wearing a high *stephane* and holding a chain, of fabric similar to the preceding figure.

13. Group of an old schoolmaster teaching a boy to read from a scroll. (Lecuyer collection, No. 81.)

14. Comic actor wearing a long fringed cloak.

15. Victorious athlete holding a branch of palm; he leans against a terminal figure, at the foot of which is a vase.

16. Aphrodite draped and holding an apple in her right hand.

17. A series of 43 heads which have been broken from statuettes. These are all of fine style and are the work probably of a school which flourished at Smyrna or one of the neighbouring cities in the 4th century B.C. They include types of the styles of Polycleitos, Praxiteles, and Lysippos; a head of Ares may perhaps go back to the lost work of Scopas, and an archaistic bust of Hermes recalls that of Alcamenes. Bowyer Sale (Christie's, Feb. 16, 1906), No. 214.

18. Model of a circular building, perhaps an oven, with a figure of an actor standing in a niche in front.

19. Eagle with wreath in beak, standing on a *boucranium*; the whole on a column.

20. Aphrodite with Eros on her shoulders, on a base with relief of Erotes mixing wine.

21. Two grotesque phallic figures in short skirts.

22. Four tragic masks and two palmettes in white plaster, painted; these have perhaps formed part of the decoration of a sarcophagus.

18-22 from Olbia.

23. Eros flying, posed so as to indicate an upward motion.

24. Eros, with golden wings and pink drapery, flying.

25. Youth holding a whelp in his arms; a wolf standing at his feet; he wears an elaborate head dress.

26. Boy wearing Phrygian cap and playing pan-pipes. From Amphipolis.

27. Goddess of archaic style, holding a ring or wreath; painted black and red. At the back is a panel which is pierced for suspension. Terracottas of this style have been found in Cyprus. From Asia Minor.

28. Seated girl holding a bird, which nestles at her neck, and a bunch of grapes. From Trebizond.

29. Seal-impression: the statue of a divinity with two winged figures hovering at its head; below, a ladder and an

amphora. The design may be connected with the statue of Jupiter at Heliopolis, as represented in the coin-types of that place. From Rhodes.

30. Comic actor in a white hooded tunic and yellow trousers.

31. Old man seated, draped. Fine and minute work.

32. Woman seated, holding an infant.

33. Woman standing.

34. Horse laden with faggots and ridden by a boy.

32-34 are figures of primitive style, from Boeotia.

XI.—*Pottery.*

1. Three Roman lamps: a sea-scene with harbour; a bull struggling with three men; a Satyr's mask.

2. Vase in shape of two Cupids wrestling.

A specimen of modern imitation of the antique.

3. Kylix of Mycenaean style; design of two goats springing up at a tree.

4. Amphora of unusual form, with geometric decoration. From Boeotia.

5. Kantharos of Boeotian style; grotesque designs of a head of Athena, cock and hens, in white on black.

6. Pyxis, red-figure ware; women at play; one of them is juggling with five balls, and another has a curious frame which is perhaps for weaving or needlework. On the ground is a bird in a cage.

7. Vase in shape of Eros riding on a panther.

8. Vase in shape of a winged figure with a tambourine, dancing.

9. A series of vases of Pontic style, in the shapes of grotesque male heads, Seilenos on a wine-skin, a crouching male figure, a horse's head, a lion, and a dog.

10. Amphora, late imitation of black-figure ware: a combat of two men, and a footrace.

11. Two amphorae, black ware, with twisted handles and plastic ornaments.

12. Bowl with patterns in relief outside: vines, goats, birds; and in the centre the head of a goddess in a turreted crown, inscribed ΠΟΙΔΟΣ (?).

13. Cylindrical receptacle with rings hung underneath, on a stand supported by lion's feet.

9-13 from Olbia.

14. Krater, red-figure ware; Dionysos, Persephone, and their attendants. The subjects are perhaps connected with the celebration of the Mysteries.

15. Kylix, red-figure ware, signed by the artist Pamphaios : on the exterior, footraces of armed men, and in the interior, an armed runner.

16. Vase in the shape of Eros standing among flowers.

17. Vase in the shape of a Maenad's head, hooded in a panther skin. Black ware. From Rhodes.

18. Cup, Etruscan *bucchero nero*, with a frieze representing worshippers bringing offerings to seated figures.

By Donation.

I.—1. Marble statuette of a boy holding a rabbit. Head and right arm wanting. Graeco-Roman.

2. Marble capital of a Corinthian pilaster, enriched with a group of Leda and the swan. Late Roman.

*Acquired in Greece by the late Admiral Spratt ;
and presented by Colonel W. Spratt-Bowring, R.E.*

II.—A series of antiquities from various sites in Crete, found in excavations conducted chiefly by the British School at Athens.

1. A large number of vases, lamps, and pottery fragments with miscellaneous objects of the Neolithic Age, bone implements and stone vessels, from Palaikastro.

2. Painted pottery, a lamp and statuette of a bull, from the Dictæan cave.

3. Primitive pottery and stone objects, from Knossos.

4. Very primitive votive offerings in terracotta, from the sanctuary site of Petsofà.

*Presented by the Committee of the
British School at Athens.*

III.—Plasma portrait bust of Agrippina the Elder in the style of the early Empire. (*Le Musée*, 1905, p. 192, fig. 6 ; *Burlington Magazine*, 1907, p. 99.)

Presented by an anonymous donor.

IV.—1. Terracotta statuette of a boy seated on a rock, with a dog which leaps up at his side.

2. Fragment of gold band, stamped with a maeander pattern.

3. Fragment of ivory carved with a lotus pattern.

2-3 from a tomb at Corinth.

4. Fictile vase surmounted by a woman's head.

5. Terracotta head of a girl wearing a coif.

4-5 are specimens of modern imitation of the antique.

Presented by M. Costis Lembessis.

V. Fragment of Arretine ware, with rivet showing an ancient method of repairing ; the rivet is in the form of double dovetail.

Presented by G. A. Simmons, Esq.

VI. Fragment of Attic red-figure ware, showing a woman holding her dress in her teeth while she fastens her girdle. From Naucratis.

Presented by D. G. Hogarth, Esq.

VII. A series of 85 casts of fragments of the Pediments and Metopes of the Parthenon, taken from originals at Athens.

*Presented by the Greek Government, through
M. P. Kavvadias, Ephor-General
of Antiquities at Athens.*

VIII. A series of objects from excavations at Behnesa.

1. Blade bone of an ox, with accounts written in ink in Greek.

2. Part of an ivory panel with the figure of a woman incised and coloured.

3. Part of a bone cylinder with Europa riding on the bull, incised and coloured red.

4. Bone bodkin.

5. Bone head of youth, from a knife handle.

6. Bronze netting needle and tweezers.

7. Dog in blue and green faïence, and three pieces of variegated glass for inlaying.

8. Cross of twisted grass, paint-brush of reed and wool, and a brush made of bristles.

9. Base of a pottery bowl, with design of a parrot in bright colours.

*Presented by the Committee of the
Egypt Exploration Fund.*

IX. A series of antiquities forming part of those found in the excavations conducted by the British Museum on the site of the Artemision at Ephesus, in 1904-5.

1. *Gold and Electrum*.—A female statuette, and 5 hawks; 2 hawk-brooches and others; 10 pins and many pinheads, beads and pendants; 25 earrings, and a large number of appliqué ornaments.

2. *Silver*.—A male statuette, and 2 hawks; bracelets and rings, pins, pinheads, beads, and pendants; 22 earrings.

3. *Bronze*.—Female statuette, a hawk, a duck, and a dolphin; bracelets and rings, fibulae, earrings, pins, and a vase.

4. *Lead and Iron*.—A bracelet and other pieces.

5. *Marble*.—A lamp, and many sculptured and architectural fragments of the Temples.

6. *Terracotta*.—Some statuettes and fragments, loom-weights, and spindle-whorls.

7. *Glass and Faïence*.—A hawk and a hawk's head, fragments of a bowl, beads, and spindle-whorls.

8. *Amber and Precious Stones*.—Beads, pendants, seal-stones and fragments, mostly of crystal.

9. *Natural Bones and Shells*.—Various specimens.

10. *Ivory*.—Fragmentary statuettes of birds, a flute, many pins, astragali, and plaques.

11. *Pottery*.—A large series of fragments of early Greek wares.

Presented by the Imperial Ottoman Government.

X. A stone pestle, found at Aquileia.

Presented by Sir John Evans, K.C.B.

XI. Seven drawings of Athens made by H. R. Ricardo between November 1845 and February 1847.

Presented by Halsey Ricardo, Esq.

Cecil Smith.

DEPARTMENT OF BRITISH AND MEDIEVAL ANTIQUITIES AND
ETHNOGRAPHY.I.—*Arrangement, Cataloguing, etc.*

Prehistoric Section.—Permanent labels have been provided for British, French, and German neolithic flints. A new table-case has been placed in position near the model of Stonehenge, containing a similar model of the stone-circle known as Arbor Low, Derbyshire, excavated for the British Association in 1901-2; and the worked flints found during the excavation are exhibited in the lower part of Table-case G, adjoining. A classification of the different phases of the Neolithic period has been added to the Stone Age gallery, and bronze vessels believed to be water-clocks of the Early Iron Age grouped together in Wall-case 14.

Late-Keltic and Gaulish Sections.—The lower portions of Table-cases O and P have been refitted and utilised for the exhibition of the Roman and other glass in the Morel collection, acquired in 1901.

Romano-British Section.—Progress has been made with the catalogue of Roman pottery found in Britain, which is to be published with that in the Department of Greek and Roman Antiquities; and a second diagram of Gallo-Roman red-ware affixed to the screen. The collection of red-ware fragments has been arranged in drawers with labels. In the Roman gallery on the ground floor several inscribed stones found in Britain have been permanently labelled.

Anglo-Saxon Room.—The remaining table-cases have been furnished with sets of drawers, and the stored portion of the collection re-arranged. New labels have been provided for the series of weapons in table-case G.

Mediæval Room.—The permanent labelling of the plaquette collection has been continued, and the series of chessmen, draughtsmen, etc., similarly treated. Various alterations have been made in the fittings of the wall-cases and frames of ornamental leather-work and needlework affixed to the wall.

Glass and Ceramic Room.—The collection of Persian pottery has been re-arranged and labelled.

Asiatic Saloon.—The Chinese porcelain with armorial and European subjects has been re-arranged, as well as the whole series of Japanese pottery and porcelain. The Stein collection from Chinese Turkestan, formerly exhibited on loan in Wall-cases 92-100, has been checked, distributed, and in part packed and despatched to India; and progress

has been made with the mounting of the portion of the collection presented to the Trustees, and with the Hoernle collection from the same region.

Gallery of Religions.—Two large Hindu carvings and one Javanese sculpture have been mounted on plinths and placed in position.

Ethnographical Gallery.—The Australian series has been labelled and re-arranged in six wall-cases and two table-cases. New Zealand feather cloaks have been examined and repacked.

Micronesian ornaments have been exhibited in three frames and a table-case. The collection from the aborigines of the Malay States has been partly re-arranged and re-labelled; and the North-west Coast pipes and ornaments mounted and exhibited in drawers accessible to the public.

American Room.—The West Indian collection has been checked and re-arranged, and the series of Mexican mosaics re-arranged in a new standard case. The Bolivar and Manson collections of Peruvian antiquities have been exhibited, the textiles being mounted in frames and placed in an upright case.

Registration, etc.—The registration of current acquisitions has been continued, and 2,661 objects have been added, including ethnographical specimens.

Photographs to the number of 186 have been taken in the Department for purposes of illustration and reference, and 36 extra prints prepared. Typewritten labels to the number of 1,008 have been cut and bordered; 87 mounting boards papered, and 815 objects mounted. There have been prepared 619 blocks, labels, frames, plinths, and miscellaneous fittings, and labels have been printed in the Department.

Registration numbers have been painted on 2,033 specimens and 891 permanent labels written.

Catalogues.—The Guide to the Mediæval Room has been passed through the press and was published in March. A catalogue of ivory carvings has been begun and photographic plates prepared for the same. The slip-catalogue of Chinese porcelain has been completed; also a similar catalogue of Japanese pottery and porcelain. Progress has been made with the Guide to the Ethnographical Gallery, and the catalogue of Roman pottery has been revised in proof.

Students.—Three thousand two hundred and fifty-four students and visitors have been received in the Department. The Battersea Field Club, Selborne Society, Ealing Microscopical Society, Barnsbury Park School, and Rev. J. Evans' party have been conducted through various sections of the Department by members of the staff.

II.—*Acquisitions.*(1.) *Prehistoric and Early British Antiquities:—*

(a.) *Stone Age.*—A flint of eolithic type from Hatfield, Herts, and a glossy flint borer from Knowle Farm Quarry, Savernake, Wilts; given by Rev. H. G. O. Kendall.

Wedge-like flint implement found 25–30 ft. deep in gravel above the London clay at Eccleston Street East, Pimlico, with the split bone of a bison (?); given by T. W. Moss, Esq.

Three teeth of a shark (*Carcharodon Rondeleti*) with the basal portion pierced by a boring mollusc in a manner suggesting human work, from the Norwich crag (Backhouse collection); given by C. H. Read, Esq., F.S.A.

A remarkable polished celt of jade-like stone, of a type rarely found in Britain, from the Thames at Vauxhall Bridge; and an unpolished implement from the Thames at Hammersmith.

Polished flint celt from Takeley, Dunmow, Essex; given by C. H. Read, Esq., F.S.A.

A series of small worked flints found by the donor in the St. Clether district, Cornwall; given by Henry Dewey, Esq.

The flint knives, arrow-heads, and worked flints found during excavations by Mr. St. George Gray on behalf of a committee of the British Association, at the stone-circle of Arbor Low, Derbyshire, described and illustrated in *Archæologia*, LVIII. 461; given by the British Association.

A series of small flint instruments and arrowheads found with pottery fragments in sand-hills near Stranraer, Wigtownshire; given by C. H. Read, Esq., F.S.A.

(b.) *Bronze Age.*—Bronze celt of early type with herring-bone markings on both faces, found at Copthorn (Shropshire?)

Bronze palstave without loop, found on the east side of the Minories, London, 18 ft. deep; given by C. H. Read, Esq., F.S.A.

A gold hoard of 10 oz. Troy, dating from the late Bronze Age and comprising 9 bracelets of various forms and weights, the latter being in the proportion of 8, 4, 2, 1, and indicating their use as currency; found near the hoard reported last year, in a gravel pit at Bexley, Kent, and, like that hoard, purchased from H.M. Treasury as Treasure Trove.

Implements of stone and flint, worked bones, pottery and bronze brooches of the second century, A.D., found during excavations in Ravencliffe Cave, Bakewell, Derbyshire, 1906, and given by the Exploration Committee through W. Storrs Fox, Esq.

(c.) *Early Iron Age.*—A cordoned bronze bucket of unusual interest, with a pair of arched movable handles

and in perfect condition, found during excavations for the Brooklands motor-track, Weybridge, Surrey, and given by William Dale, Esq., F.S.A. This specimen is the first found in Britain, and dates from the Hallstatt period (earliest Iron Age of the Continent), being made for export in North Italy about the seventh century, B.C. It is figured and described in *Proceedings of the Society of Antiquaries of London*, vol. xxi., p. 464.

Pottery and wood fragments dredged from the Thames at London.

(d.) *Foreign*.—A series of flints from upper miocene beds in the Cantal (Puy Courny and Puy de Boudieu), and typical specimens from Belgium illustrating the Mesvin, Strépy, Flénu, Campigny, and Robenhausen periods of the Stone Age, as classified by the donor, Dr. Alfred Rutot.

Three chert palæolithic implements found near Carmanico, province of Chieti, Italy; given by D. I. Bushnell, Esq., Junior.

Flint core, disc, and flakes from Dépt. Vienne, and two implements from Montiers, Dépt. Somme; given by Dr. Paul Raymond.

A series of neolithic flint hammerstone and pot-boilers from northern France, collected and given by M. A. Durdan.

Stone maul or pick of the 12th dynasty, offering-tray of pottery (10th dynasty?), and reed baskets (15th–18th dynasty), from Rifeh, Egypt; given by the British School of Archæology in Egypt, through Prof. Flinders Petrie.

A stone celt of wedge pattern and another with oval section and chisel edge from Mergui district, Lower Burma; given by Maung Maung and R. Grant Brown, Esq., I.C.S.

Terra-cotta ring-stand for pottery urns, of the Early Iron Age, found with others near Linares, prov. of Jaen, Spain, and described in *Revue Archéologique*, 1906, pt. ii.; given by Horace Sandars, Esq., F.S.A.

(2.) *Romano-British*:—

Cinerary urn and bowl of black ware found during excavations for the Birkbeck Bank, High Holborn, about 1897; given by C. F. Ravenscroft, Esq.

Circular mount for furniture, with bust in relief, dug up near Redland, Bristol; and an enamelled hinged brooch of bronze, from Castle Hill, Huddersfield; given by C. H. Read, Esq., F.S.A.

Copper cake with defaced Roman stamps, found near Capel Curig, Carnedd Llewelyn, Snowdon, and two fragments of rough copper from the Thames.

(3.) *Anglo-Saxon and Foreign Teutonic* :—

Bronze trefoil-headed brooch from Naseby Field, Northants: an enamelled escutcheon from a hanging bowl; a Frankish inlaid brooch of wheel-pattern, and girdle-plate inlaid with silver; given by C. H. Read, Esq., F.S.A.

A remarkable series of silver personal ornaments and ingots, including a massive engraved bracelet, another of torc pattern, finger-rings, and ear-rings of various patterns, found together with gold objects and enamelled medallions at Kieff, S. Russia, 1906, in a casket 7–8 ft. below the surface; the hoard is shown by the presence of coins of Vladimir I. (988–1015) to belong to the 11th century; given by J. Pierpont Morgan, Esq.

(4.) *Mediæval and Later* :—

(a.) *British*.—Portion of a monumental brass with bare feet of standing figure, about 1500; and on reverse inscription about 1520, from the Plowright collection; given by Mill Stephenson, Esq., F.S.A.

A hoard of seven silver spoons, some bearing dates from 1586–1632, found together at Netherhampton, Wilts; purchased from H.M. Treasury as Treasure Trove.

Iron key with drop wards found on the site of Newgate prison; given by Siegfried Bendit, Esq.

Winchester quart and half-pint measures from Barford Stodden and Willey Hundreds, Beds, 1822; and another bearing the arms of Westminster and date 1763; given by C. H. Read, Esq., F.S.A.

Brass tobacco-box with view of Rotterdam, engraved in front "James Wood, 1759"; given by C. R. Jennings, Esq.

Nine glass cameo portraits by Tassie, including one of the Earl of Rochford, 1774; and a wax portrait of Rev. Robert Hall, of Leicester, by T. R. Poole, 1815; given by Max Rosenheim, Esq., F.S.A., through the National Art Collections Fund.

Pillow and stand for lace-making from Bucks, an obsolete implement for thatching, and a hand-plough; given by J. Edge-Partington, Esq.

(b.) *Foreign*.—A remarkable specimen of Carolingian carving, consisting of a panel of whale-bone 11½ in. long, representing David dictating the Psalms, the king enthroned between soldiers on the right, and on the left four scribes writing with a coffer between them. It has been subsequently used as a cover of a casket, the edges being pierced for hinges and lock; and was found about 1845 in Thos. Crumwell's house at Hoxton, London. It dates from the 9th century, and is on a larger scale than the panel with similar

subject at the Louvre. Given by the National Art Collections Fund, and illustrated in the *Reliquary and Illustrated Archæologist*, vol. xi. (1905), frontispiece.

Jasper equal-armed cross with gold medallions on either side at the centre, with cloisonné enamels of Our Lord and St. George, and a similar medallion of St. Gregory in crescent gold mount, found at Stamboul: Byzantine, 11th century.

Bone panel carved in Byzantine style, with a vine-scroll enclosing baskets and grapes, given with other objects from Oxyrhynchus by the Egypt Exploration Fund.

Piece of silk brocade, Saracenic, about 1200; bronze 2 oz. weights of Beziers (Hérault), and of Nismes (Gard), and 4 oz. weight of Beziers, 13th century, and bronze mount of a martingale (?) once enamelled; given by C. H. Read, Esq., F.S.A.

Copper-gilt reliquary with openwork faces, birds in medallions, and numerous glass settings, of the 12th century; Limoges enamelled bookcover with Our Lord and the Evangelistic symbols, and panel from a reliquary representing the martyrdom of St. Thomas of Canterbury, early 13th century; a square panel enamelled with the figure of a saint on blue ground; a brass Icon with Russian enamel, silver-gilt badge once set with stones, and agate pommel of a sword, Italian, 14th century; all from the collection of the late Albert Way, F.S.A.

Wooden bust of a young lady, Italian, 16th century; given by Alfred A. de Pass, Esq.

Bronze pommel of a dagger, enamelled on both sides with coats of arms, (1) a lion rampant, (2) a fesse between bezants, azure, 15th century; obtained in Palestine and given by Henry Wallis, Esq.

Tortoise-shell medallion pressed with intaglio of Louis XVI.; given by A. W. F. Fuller, Esq.

(5.) *Ceramic and Glass Collections*:—

(a.) *Oriental Wares*.—Long-necked bottle enamelled in blue and lusted, of the 13th century, found near Aleppo, Syria.

Bowl with creamy glaze and marbling in colours, found imbedded in a wall at Jerusalem; and modern copy of a Turkish faïence dish; given by C. H. Read, Esq., F.S.A.

Three unusually fine glazed bowls and a jug with black and coloured designs, said to be from excavations at Sultabad, Irak, Persia, and dating from the 12th or 13th century.

Four star-shaped tiles with floral designs, and one square blue tile with Arabic characters in relief: Persian, of the 13th and 14th centuries; obtained at Teheran, and given by

Sir Thos. D. Gibson Carmichael, Bt., through the National Art Collections Fund.

A number of glazed bowls, fragments, and wasters of Persian ware, said to have been found in excavations at Rakka, Aleppo.

Series of glazed tiles made up like mosaic, of various colours, from the Musalla at Herat, a place of prayer pulled down by order of the Amir in 1885; given by Hon. Col. C. E. Yate, C.S.I., C.M.G.

Bowl of Persian narghili with turquoise glaze and open-work metal covering; given by Sydney Vacher, Esq.

Celadon ware bowls, vases, and figures of animals, collected by Mr. Graham on the site of the old kilns at Sawankalok, central Siam.

Part of a large Burmese glazed tile, with horse-headed human figure in relief, probably 15th century; given by A. A. de Pass, Esq.

Ridge-tiles and antefixes with blue and yellow glazes, from a temple in Peking and the great Lama temple, Huang Ssü; given by C. H. Read, Esq., F.S.A.

Glazed cylindrical vase in the form of an open book, with landscape scene and inscription, Japanese; given by Sir H. H. Howorth, K.C.I.E.

(b.) *Continental*.—Five reproductions of glazed mediæval dishes in Italy, one with a fish being at S. Apollinare in Classe, Ravenna; and the rest built into a campanile wall in Italy; given by Henry Wallis, Esq.

(c.) *English*.—Tall jug of brown ware found in London; given by H. Curwen, Esq.

Glazed jug with incised chevrons and inscription, "Mary Tucker, London, 1629."

Cider-mug of buff ware with brown markings, of the 17th century, said to have been found in Bishopsgate; given by Robert Steele, Esq.

Tankard with brown glaze and inscription "Hark, hark, Woodman," and date 1854, made at Howcans, near Halifax; given by H. Ling Roth, Esq.

Delft mug, pots, and fragments with cockspur, found in Tooley Street, Southwark, 17th century; given by G. F. Lawrence, Esq.

Fragments and wasters found on the site of potteries at Crich, Derbyshire; given by M. Salt, Esq.

Jasper-ware vase-label with blue dotted border, inscribed "By J. Wedgwood, F.R.S.," and used in his showroom; given by C. H. Read, Esq., F.S.A.

Jasper-ware figure of Hebe, marked "Wedgwood"; given by G. H. Vyze, Esq.

Three pottery stamps with letters, and a crucible stamped "Battersea Works"; given by A. W. F. Fuller, Esq.

Porcelain plate in blue, red, and gold, marked "Spode"; given by St. George Littledale, Esq.

Vase with lustre decoration in imitation of a Persian model, made by Pilkingtons, 1907; given by William Burton, Esq.

Two terra-cotta water-bottles made by Crossley of Comondale; given by Arthur Hurst, Esq.

Seven small plain pavement-tiles with brown glaze, from a late 14th century chapel, St. Augustine's, Canterbury; given by W. H. St. John Hope, Esq.

Tile with fleur-de-lys design, dated about 1700, found on the site of an old pottery at Muddlebridge, Fremington, near Barnstaple, Devon; given by R. Manderson, Esq.

(d.) *Glass*.—Two phials and fragments of twisted bracelets from Oxyrrhynchus; given by the Egypt Exploration Fund.

Jug blown in a mould, with vandyke patterns, found at Nippur, Babylonia.

Two vases of Bristol ware, with slight vertical ribs, late 18th century; given by T. Charbonnier, Esq.

Standing cup of deep blue colour, with cover and cypher of Sophia Charlotte, Queen of Prussia (1668–1705).

(6.) *Collection illustrating various Religions*:—

(a.) *Buddhism*.—Seven brass Chinese Lamaistic figures from Pekin.

Japanese Buddhist figure in gilt wood, with elaborate pedestal, from Japan.

Head of stone figure of Buddha fasting of the Græco-Bactrian period; given by Col. F. G. Mainwaring.

(7.) *Oriental and Ethnographical*:—

Asia.—Part of the valuable series of antiquities discovered by Dr. M. A. Stein in Chinese Turkestan during 1900–1, the remainder being assigned to the Calcutta and Lahore museums. It comprises 250 objects of terra-cotta, stone, bronze, wood, glass, and textile, mostly illustrated in *Ancient Khotan*, by M. A. Stein, and the principal sites represented are Yangi-Arik, Togu-jai, Yôtkan, Dandan-Uiliq, Niya, Endere, and Rawak-Vihâra. The series dates from about the 3rd to 8th century of our era, and includes statuettes, panel and fresco paintings, furniture, seals, and Buddhist stucco reliefs; given by the Secretary of State for India in Council.

Iron spearhead, with socket inlaid with silver, probably from Hither Asia, but obtained in Somerset; given by Wallis Cash, Esq.

A quiver and arrows from the North West Provinces of India ; given by Lady Gatacre.

A bronze weight in the form of a duck, from Burma ; given by J. L. Holmes, Esq.

Apparatus for applying lac to the teeth, folding candle-sticks, a saké-heater, and three weapons from Japan, and three silver amulet cases from Ceylon ; given by C. Lund, Esq.

Copper-gilt pilaf dish, Turkish, 17th century ; given by H. W. Murray, Esq.

Two bronze armlets of a type represented in the Treasure of the Oxus, and probably from that district ; given by C. H. Read, Esq., F.S.A.

A set of cubical boxes fitting into one another and engraved as seals, Chinese ; given by Max Rosenheim, Esq., F.S.A.

A silk scarf and two *sarong* with unusually elaborate dyed ornament from Sumatra, and a silver filigree pipe inscribed "The work of *Muhammad Mukūn Sāhib* (?), *Aslamī Nu'māngiri of Siripul*"; given by Mrs. Eustace Smith.

Four Assamese spears ; given by Mrs. Stillwell.

A loom from the island of Sermatta.

Africa.—A large and very important series of ornaments, weapons, utensils, musical instruments, etc., from the little-known tribes of the Kwilu watershed, Congo Free State ; collected by Emil Torday, Esq. (See "Journal of the Anthropological Institute," Vol. XXXV. 398, XXXVI., 39 and 272, and XXXVII., 133).

A large collection of ornaments, weapons, etc., chiefly from the Nandi of the East Africa Protectorate ; collected and given by A. C. Hollis, Esq., Secretary to the Protectorate.

A series of objects from the tribes of the province of Bauchi, Southern Nigeria ; given by Sir H. H. Howorth, K.C.I.E.

A series of paper squeezes of Bushman rock carvings ; given by Rev. G. C. Robinson.

Pottery and jewellery from the Kabyles of Algeria ; objects from the Tuareg ; textiles and a copper dish from Algeria, the latter inscribed "*The owner is the Haji Ahmad Budurbah ; year 1124*" (A.D. 1712) ; give by Mrs. Eustace Smith.

Five steatite figures from Sierra Leone.

An axe from S.E. Africa, three wooden combs from Kwango, and two shields from the Semliki Valley.

Oceania.—A jade club (*meré*) of unusual perfection of workmanship. This specimen is distinguished by the fact that the handle is carved to represent a bird's head, a

peculiarity not hitherto observed in clubs of this material. Given by C. H. Read, Esq., F.S.A.

A series of six so-called "Gravestones" from New South Wales, Australia. Given by Graham Officer, Esq.

A model canoe from Niué (Savage Island).

America.—An obsidian mask and mirror, and a jadeite dagger. All three objects are of unusually fine work, and are of great interest and value in the Collection; they were collected by the late Right Hon. Sir E. Thornton, G.C.B., while serving as an attaché in Mexico; given by the Misses Thornton.

A large and very important collection of Peruvian antiquities, including gold and silver vessels and ornaments, feather- and mosaic-work, copper utensils and ornaments, implements and materials used in the manufacture of textile fabrics, and a large series of textiles and pottery vases; collected in the provinces of Pacasmayo, La Libertad, and Ancachs, by Dr. de Bolivar.

An interesting series of ancient Peruvian textiles; given by Sir Patrick Manson, K.C.M.G., F.R.S.

A collection of shell implements and pendants from the "Ten Thousand Islands" off the coast of Florida; collected and given by Clarence B. Moore, Esq.

Five stone arrowheads from Ontario; given by Arthur Reynolds, Esq.

Four ancient Peruvian vases; given by J. J. Stevenson, Esq.

An interesting gold ornament from Colombia, representing eight men playing various musical instruments.

A shale bowl and a wooden comb inlaid with *haliotis* shell, both unusually fine specimens, from Queen Charlotte Island.

A doll and a pair of sandals from an ancient grave in Peru.

CHRISTY COLLECTION.

During the year 78 objects have been entered in the Registration Catalogue. The Christy Trustees have acquired by donation and exchange the following objects, which they have transferred to the Trustees of the British Museum:—

I.—*Prehistoric Antiquities of Europe, Asia, and Africa*:—

Exchange.—Three palæoliths from the Kempston beds, Bedford.

II.—*Ethnography of Asia*:—

Donations.—A “sacred” kris from Java; given by D. Croll, Esq.

Three clay tablets with Buddhist formulæ from a cave near Mat Harn in the Province of Trang, Siamese Malay States; given by W. A. Graham, Esq.

Two wooden buckets from Siam; given by T. A. Joyce, Esq.

Prepared skull from the collection of a Dyak head-hunter, Borneo; given by M. Little, Esq.

Persian knife and sheath; given by B. D. Passa, Esq.

Chinese glaive, taken at the battle of Peking; given by C. H. Read, Esq., F.S.A.

Pair of spectacles formerly worn by the Abbot of N'Gantse monastery, Tibet; given by Max Rosenheim, Esq., F.S.A.

A shield and a tobacco-pipe from Saráwak; given by R. H. Shelford, Esq.

A model canoe from Ceylon; given by N.W. Thomas, Esq.

III.—*Ethnography of Africa*:—

Donations.—Specimens of Ajawa, carving from British Central Africa; given by R. H. B. Blair, Esq.

A steatite carving from Mendiland, Sierra Leone; given by A. W. Boddy, Esq.

A *marimba* and a number of fetish objects from the Gold Coast; given by Miss Hart Davis.

Musical instruments, etc., from the Western Sudan, a loom and a pottery vase from Nigeria; given by A. W. F. Fuller, Esq.

An earthenware vessel from K'pando, Togoland; given by E. T. Gikunoo, Esq.

A gourd pipe, a horn, and a belt from Uganda; given by G. C. Ishmael, Esq.

The outfit of a Munyoro wizard, from Uganda; given by G. P. V. Jervoise, Esq.

The bed of a Nigerian chief; given by J. C. Sciortino, Esq.

A basket from East Africa; given by R. Phené Spiers, Esq., F.R.I.B.A.

An ethnographical series from the Benué River, Nigeria; given by D. W. Webster, Esq.

IV.—*Ethnography of Oceania and Australia*:

Donations.—A shell adze from Bellona, Solomon Islands; given by the Rev. Dr. R. H. Codrington.

Six javelins from the Alligator River, Australia ; given by Norman H. Hardy, Esq.

Tridacna-shell slab, with openwork carving, from the Solomon Islands ; given by W. H. Hazelton, Esq.

Three glass spearheads from Broome, Western Australia ; given by F. G. Montague Powell, Esq.

A series of stone implements from Victoria, Australia ; given by C. H. Read, Esq., F.S.A.

A fragment of prehistoric pottery from British New Guinea ; given by Dr. C. G. Seligmann.

A prepared skull from the New Hebrides ; given by Dr. F. C. Shruballs.

A series of objects from British New Guinea ; given by Dr. W. M. Strong.

A fire-stick from the D'Entrecasteaux group ; given by A. A. Wickham, Esq.

V.—*Antiquities and Ethnography of America* :—

Donations.—Pottery vases from Teotihuacan, Mexico ; given by W. A. Caldecott, Esq.

Two photographs of ancient ruins at Xochicalco ; given by J. Cooper Clark, Esq.

Specimens of modern Mexican pottery ; given by C. E. Cooper, Esq.

Glass-headed arrow from Tierra del Fuego ; given by Captain Crawshay.

Throwing-club from the Hopi of Arizona ; given by W. Crewdson, Esq., F.S.A.

Pottery vase and shell figurines from Darien ; given by W. Farquhar, Esq.

Two obsidian spearheads from Honduras ; given by Dr. T. Gann.

Two pottery figures from La Tolita, Ecuador ; given by J. N. Hendry, Esq.

A string-net dress from the Chaco, Paraguay ; given by Sir H. H. Howorth, K.C.I.E.

A series of weapons from the Cachibo Indians of Peru ; given by N. Iconicoff, Esq.

Fur head-dress believed to have belonged to the Indian Chief "Sitting Bull" ; given by J. T. Woolrych-Perowne, Esq.

Neck ornament of jaguar-claws, Bororo Indians, South America ; given by Paul Radin, Esq.

Charles H. Read.

DEPARTMENT OF COINS AND MEDALS.

I.—*Exhibitions.*

The medals exhibited in the corridor have been carefully cleaned.

II.—*Registration and Arrangement.*1. *Greek Series*:—

288 coins from the Parkes Weber collection and 381 recently acquired have been registered and incorporated.

3,256 tickets giving references to the published Catalogues *Parthia*, *Phrygia*, and *Cyprus* have been written and placed in the trays beneath the coins.

12 "Uncertain" coins have been identified.

Rectifications have been made in the Sicilian series, and the series of Etruria and Olbia have been re-arranged and expanded.

The Leopold Hamburger collection of Phœnician and Palestinian coins (about 2,700 specimens) has been examined in detail. A series of Lycian coins, another of Seleucid coins, and five collections chiefly of Palestinian coins have been examined, and selections have been made where desirable.

2. *Roman and Byzantine Series*:—

204 coins from the Parkes Weber collection and 179 recently acquired have been registered and incorporated.

The whole series of Roman medallions has been weighed and the weight noted on a ticket beneath each specimen.

The collection of Becker's forgeries and other spurious Roman coins, including the Italian imitations of the sixteenth century, has been entirely re-arranged in two cabinets, with cards and labels.

A hoard of Roman silver coins found at Icklingham in Suffolk has been examined and a selection made for the Museum. The Weybridge hoard of bronze coins (Diocletian, etc.) has also been examined. Numerous coins from the recent excavations at Corbridge have been examined and identified.

3. *British and Colonial Series*:—

436 coins and medals from the Parkes Weber collection, and 63 from recent acquisitions have been registered and incorporated.

258 eighteenth-century tokens of Scotland from the Freudenthal collection have been incorporated, and the general collection of Scottish tokens has been re-arranged.

Corrections have been made in the series of the coins of William I. and II., and the Anglo-Gallic coinage of Edward III.

The series of casts and electrotypes and the collection of modern forgeries have been expanded.

New heading-cards have been inserted where necessary in the Anglo-Saxon series (cabinets 1 and 2).

A small hoard of silver coins (Treasure Trove) of Edward VI.—Charles I. found at Cwmnant Tredsdridge, Pendoylan, Wales, has been examined.

4. *Mediæval and Modern Series* :—

3,705 coins, medals, and tickets from the Parkes Weber collection have been registered and incorporated. 376 coins and medals from recent acquisitions have also been registered and incorporated. 386 miscellaneous coins, medals, and tokens from the Freudenthal collection have been incorporated, and 977 Spanish coins, being recent acquisitions or specimens from the Parkes Weber and Freudenthal collections, have been incorporated.

1,422 coins, medals, and jetons of Belgium and Holland from the Freudenthal collection have been incorporated in the general collection, which has been expanded and re-arranged with fresh heading-cards.

The whole series of French coins has been re-arranged and re-labelled, and 736 specimens incorporated from the Freudenthal collection, necessitating the expansion of the series from three to five cabinets.

A series of coins of Saxony and Bavaria offered for presentation has been examined, and a selection made.

Progress has been made with the MS. Index to the *Traité de Numismatique* of Engel and Serrure.

Rectifications have been made in the series of Dutch and Italian medals of the Renaissance, and the re-arrangement of the Dutch artistic medals (under Artists' names) has been completed.

The cleaning of the general collection of Italian medals has been begun.

The series of medals, of various countries, too large to be inserted in the ordinary cabinets, has been arranged with new labels in the lower part of the King's Cabinet, which has been fitted for the purpose.

5. *Oriental Series* :—

363 coins from the Parkes Weber collection, and 919 coins recently acquired, have been registered and incorporated. 1,388 coins of China and Japan acquired in past years have been registered.

The Persian series has been expanded, and 557 tickets referring to the Catalogue *Persia* have been written and inserted in the trays.

A series of Oriental coins offered for presentation by Mr. Evelyn Grant Duff has been examined, and a selection made.

807 coins of Annam and the coins of Siam and Cambodia have been arranged. 2,216 coins of Korea, from the Tamba, Morse, and other collections, have been classified according to mints and issues, and fresh heading-cards have been written where necessary.

197 ingots, bars, &c. of Siam, Burma, and the Shan States, acquired in past years, have been classified and incorporated. 32 coins of Tibet have been identified and classified.

About 4,600 coins of the Chinese Empire from the Gardner, Morse, Freudenthal, and other collections have been amalgamated with the general collection and arranged, with heading-cards, under Emperors, mints, and denominations. A separate series has been formed of the Chinese medals and amulets known as "Temple Money."

III.—Catalogues.

1. CATALOGUES OF GREEK COINS.

Coins of Phoenicia, by G. F. Hill.

The coins of Byblus, Cæsarea ad Libanum, Dora, Orthosia, and Sidon have been weighed, arranged, and described. Progress has been made with the historical introduction.

2. CATALOGUES OF ROMAN COINS.

Roman Republican Coins, by H. A. Grueber.

The printing of the text of volume I. (594 pages) has been completed, and the text of volume II. has proceeded as far as sig. R, sent to press, and sig. DD, sent for revise. The preparation of the plaster-casts for the illustrations has been continued, and plates have been photographed and sent to press up to Pl. 86.

Imperial Byzantine Coins, by Warwick Wroth.

During the course of the year the whole of the text of the two volumes of the work (643 pages in all) has been set up in type. Volume I. (text) has been worked off, and volume II. (text) as far as page 536. The preparation of casts for the illustrations has been continued, and 66 plates have been photographed and passed for final press. The historical Introduction has been written and placed in the printer's hands, and the Index has been begun.

3. CATALOGUES OF BRITISH COINS AND MEDALS.

Medallic Illustrations of the History of Great Britain and Ireland, by Hawkins, Franks, and Grueber. (Atlas of plates, with letterpress).

The plates and letterpress of Part VI. have been completed, and the Part has been published. Part VII. has also been prepared and published. The selection of the medals for Part VIII. has been begun.

4. CATALOGUES OF ORIENTAL COINS.

Indian Coins.—Andhras and Western Kshatrapas, by E. J. Rapson.

Signatures H to E E have been sent to press. 18 Plates have been mounted and photographed.

IV.—*Acquisitions.*

The total number of coins and medals added to the Department during the year 1907 was 1,122, of which 39 are of gold, 597 of silver, 454 of bronze, and 32 of other metals.

The following table shows the numbers of the new acquisitions classified according to the several series to which they belong :—

Clas.	Gold.	Silver.	Bronze.	Other Metals, &c.	Total.
Greek - - - - -	5	178	265	—	448
Roman - - - - -	11	65	101	—	177
British and Colonial - - - - -	2	25	14	4	45
Mediæval and Modern - - - - -	2	239	26	28	295
Oriental - - - - -	19	90	48	—	157
Total - - - - -	39	597	454	32	1,122

Of the above, 491 have been presented, viz., 15 of gold, 298 of silver, 149 of bronze, and 29 of other metals.

The following is a list of benefactors to the Department of Coins during the past year :—

The Government of Bombay; the Government of the Central Provinces, India; the Government Museum, Madras; the British School of Archæology in Egypt; the Comité Exécutif de l'Exposition de Liège, 1905; the Excavation Committee of the Institute of Archæology, University of Liverpool; Howard Payson Arnold, Esq.; the Right Hon. Viscount Barrington; J. G. Burlison, Esq.; E. Butcher, Esq.; E. G. Coutts, Esq.; A. W. Daughlish, Esq.; Evelyn Grant Duff, Esq.; Sir John Evans, K.C.B.; A. Felsenthal, Esq.; H. A. Grueber, Esq., F.S.A.; F. W. Hasluck, Esq.; C. W. Harrison, Esq.; G. F. Hill, Esq.; Sir Henry H. Howorth, K.C.I.E.;

William J. Hughan, Esq.; Framji Jamasji Thanawala, Esq.; R. A. Inglis, Esq.; Lewis L. Kropf, Esq.; H. F. Lockeking, Esq.; Warren Lugden, Esq.; J. R. McClean, Esq.; J. S. McLennan, Esq.; Miss Constance F. M. Massé; the Deputy Master of the Mint; E. W. Newton, Esq.; Alfred de Pass, Esq.; R. T. Pritchett, Esq. (bequest); H. L. Rabino, Esq.; Augustus Ready, Esq.; J. T. T. Reed, Esq.; Max Rosenheim, Esq., F.S.A.; Samuel Smith, Esq. (bequest); Messrs. Spink and Son; the Rev. L. Harding Squire; H. W. Thomson, Esq.; S. Tulloch, Esq.; A. J. B. Wace, Esq.; Sir Hermann Weber, M.D.; Captain C. P. Wilson; A. M. Woodward, Esq.; Edward Wooler, Esq.; Arthur S. Yeames, Esq.

REMARKABLE COINS AND MEDALS.

1. *Greek Series* :—

Among the 448 Greek coins added to the National Collection during the year 1907, the following are the most important :—

(a) *Europe* :—

Italy.—*Etruria*. Numerous specimens of the *aes grave* attributed to Clusium, Volsinii, and various other mints, including the series with *obv.* Krater, *rev.* Wheel; *obv.* Footless amphora, *rev.* Wheel; *obv.* Head of double-axe, *rev.* Wheel (with small denominations *struck*); *obv.* Wheel, *rev.* Wheel, countermarked with ivy-leaf, etc. Silver coins of various mints, including four with *obv.* Gorgoneion, *rev.* Star and crescent (Populonia); one with *obv.* Sepia, *rev.* Plain (Populonia); and one with *obv.* Male head and mark of value X, *rev.* Plain (63·6 grains, mint uncertain). Also a large series of struck bronze of Populonia and Vetulonia. All the above Etruscan coins were acquired at the sale of the Strozzi collection.

A rare archaic didrachm of *Cumae*: *obv.* Head of nymph; *rev.* Mussel-shell, with crest of helmet as symbol. From the Strozzi sale.

Two rare Apulian bronze coins, of *Teate* (*obv.* Head of Apollo, *rev.* Man-headed bull) and *Venusia* (nummus with *obv.* Head of Maenad, *rev.* Maenad seated). From the Strozzi sale.

A silver didrachm of *Thurium* in Lucania, of the usual types, with Skylla on Athena's helmet; *symbol*, ivy-leaf. From the Strozzi sale.

Important specimens of the coinage of *Caulonia* (early incuse stater), *Croton* (a rare archaic didrachm, *obv.* Eagle flying, *rev.* Tripod) and *Terina* (stater with the mark Π on both sides). From the Strozzi sale.

Sicily.—A very rare, if not unique, gold coin of *Agrigentum*: *obv.* Crab; below, dolphin; *rev.* Eagle on snake. A variety of the coin issued towards the end of the 5th century

with the name of Silanos. Wt. 20·5 grs. From the Strozzi sale.

Sarmatia.—A specimen of the exceedingly rare gold half-drachm of *Olbia*: *obv.* Head of Demeter; *rev.* **ΟΛ** Dolphin. Wt. 32·5 grs., cp. Pick, *Ant. Münzen Nordgriechenlands* I., Pl. ix. 18. Also eight dolphin-shaped coins of the same mint, and a large number of varieties of the bronze coinage, autonomous and imperial, of *Olbia*, *Chersonesus*, *Panticapaeum*, *Tyra*, and *Cercine*.

Thrace.—16 tetradrachms and 1 drachm of King *Lysimachus*. A very fine tetradrachm of *Aenus*, of severe style, of the end of the 5th century: *obv.* Head of Hermes; inscribed on his petasos, **ΑΙΝΙ**; *rev.* **ΑΝΤΙΑΔΑΣ** Goat, and horned and goat-footed satyr as symbol. Weight 256·3 grs. A similar specimen of this rare coin is in the Berlin collection.

Macedon.—79 tetradrachms, drachms, and half-drachms of Philip II., Alexander the Great, and later kings of Macedon.

Thessaly.—A silver drachm (weight 90·8 grs.) of *Larisa*, of the early 5th century: *obv.* Head of the nymph Larisa, facing, of somewhat unusual style; *rev.* **ΛΑΡΙΣΑΙ** Horse grazing to l. (instead of to r., as is usual on these coins).

Acarmania.—A silver stater of *Leucas*, of the early 5th century: *obv.* Pegasus; *rev.* Head of Athena, the hair falling on the neck and tied in a bow at the end. Weight 132 grs. Also two later staters of the same mint, *presented by Sir H. H. Howorth*, K.C.I.E. A silver coin (13 grs.) of *Stratos*, of the 5th century: *obv.* Horned head of the river-god Acheloös l.; *rev.* Head of nymph Kallirrhoe r.

Boeotia.—A silver didrachm (184·2 grs.) of *Orchomenus*, of the period 387–374 B.C.: *obv.* Boeotian shield; *rev.* **ΕΡΧΟ** Free horse cantering; magistrate's name **ΟΠΑ**; symbol, ear of corn. Four staters of *Thebes*, of the period 378–335 B.C., with the magistrates' names *Amphi* . . ., *Anti* . . ., *Diok* . . . and *Lyki* . . ., *presented by Sir H. H. Howorth*, K.C.I.E.

Peloponnesus.—A well preserved bronze coin of Corinth. *obv.* Head of Lucius Verus; *rev.* **CLICOR** Chimaera springing r. Apparently unpublished.

(b) Asia:—

Bithynia.—A large bronze coin of *Cius*: *obv.* Head of Hadrian as Zeus Eleutherios; *rev.* **ΑΔΡΙΑΝΗ ΚΙΟC** City-goddess with sceptre and turreted crown, sacrificing at altar. A bronze coin of the same mint, of Philip Junior: *rev.* Sarapis with sceptre and wreath in raised r. hand.

Mysia.—A sixth of *Cyzicus*, of very pale electrum, c. 450 B.C.; weight 33·3 grs.: *obv.* Bearded centaur kneeling on tunny-fish, wielding a tree trunk; *rev.* Mill-sail incusesquare. Cp. Greenwell, *Cyzicus*, No. 46.

Ionia.—40 bronze coins of *Magnesia*, of the 4th–3rd centuries B.C. from a hoard: *obv.* Horseman; *rev.* Bull and magistrate's name. This set supplies many names of magistrates.

Caria.—A rare bronze coin of *Hydisus*, of Gordian III., with the names of the magistrates (stephanephoroi) M. Aurelius Hermonax and Metrophanes.

Lycia.—12 silver coins of the Dynasts of the 5th and 4th centuries, including rare types of *Kuprllis*, *Khäriga*, and *Sppntaza*. Two bronze coins of the types of Alexander the Great and of the Macedonian interregnum, with the triskeles symbol, showing them to have been struck in Lycia. A bronze coin of *Telmessus*, of the early 3d century B.C.: *obv.* Head of Alexander the Great with ram's horn; *rev.* Panther. **ΤΕΛΕΜΗΣΣΕΩΝ** and **ΠΤ** in monogram (for Ptolemy Soter?).

Pisidia.—A fine specimen of a rare bronze coin of the colony *Comama*, of the Emperor Geta; *rev.*, Goddess, veiled, standing facing. Presented by Sir Hermann Weber, M.D.

Syria.—A silver tetradrachm of *Antiochus I.*, with the types of Alexander the Great, and mint-marks **ΣΙ** and **Κ** (reversed). The former may represent Sidon, but there is no other evidence that Sidon belonged to Antiochus I. at the time (soon after 281 B.C.) when this coin was struck.

2. Roman and Byzantine Series:—

(a.) Republic:

A rare denarius struck at the local mint of Hatria: *obv.* Head of Roma; *rev.* Dioscuri and mint-mark **H**.

Two bronze trientes of Hatria and Canusium with mint-marks **H** and **C** respectively. From the Imhoof-Blumer collection.

An aureus of M. Antonius (*rev.* **P. CLODIVS M.F. IIIIVIR A.P.F. Oriens**); three denarii of L. Pinarius Scarpus, L. Mescinius Rufus, M. Durmius, and a quinarius of C. Aurelius. All from the Imhoof-Blumer collection.

(b.) Empire:

Nine aurei from the Strozzi collection, viz., four of Augustus; *reverses* (1) **S.P.Q.R. CL. V.** Victory flying with wreath, and shield on column; (2) **S.P.Q.R.** Triumphal car in temple; (3) **IMPX** Bull butting r; (4) **IMPX** Augustus on platform receiving laurels from two soldiers; one of Domitian; *rev.* **TR. POT. II. COS. VIII. DES. X. P.P.** Minerva fighting; one of Nerva; *rev.* **LIBERTAS PVBLICA**; two of Hadrian; *reverses* (1) **ADVENTVS AVG.** Roma

receiving Hadrian (2) **COS. III.** The Emperor standing; one of Antoninus Pius; *rev.* **SALVS AVG.** Salus sacrificing.

Six fine "cistophoric medallions" of Hadrian, from the Imhoof-Blumer collection.

A bronze coin of Maximian and four of Allectus, all struck at London, from a find at Shrivenham, Berks.

Presented by the Rt. Hon. Viscount Barrington.

73 bronze coins of the tetrarchy (Diocletian and Maximian Augusti, Constantius, and Galerius Cæsares) struck between 296 and 305 A.D., from the Brooklands (Weybridge) Hoard. Of these 60 were *presented by H. E. Locke-King, Esq.*

36 silver siliquæ of the latter half of the fourth century (Julian, Jovian, Valentinian I., Valens, Gratian, Valentinian II., Theodosius, Magnus Maximus, Eugenius, Arcadius), being part of the Treasure Trove of Grovely Wood, Wilts.

11 silver siliquæ of the same period (Valentinian I., Valens, Valentinian II., Theodosius, Arcadius, Honorius) from a hoard found many years ago at Icklingham.

3. *British and Colonial Series* :—

(a) *Coins* :—

A silver halfpenny of Eadmund of Wessex (A.D. 940-946) with the moneyer's name **BALDVIN.** The halfpenny of this reign was previously unknown.

Presented by H. A. Grueber, Esq.

A silver penny of Henry I. struck in London with the reverse type, a cross pattée and the legend **ALPINE ON LVNDE** in two concentric circles.

5 cut halfpennies and 2 cut farthings of Henry III. recently found at Canterbury. These pieces consist of pennies cut into halves or quarters to pass in circulation at these values.

Presented by E. Butcher, Esq.

A bronze seventeenth-century token of Yarm in Yorkshire.

Presented by E. Wooler, Esq.

3 penny tokens of Cornwall and Devon; date 1811.

Presented by E. W. Newton, Esq.

(b) *Medals* :—

A bronze medallion with representation of the "Royal Sovereign," the finest ship in the navy of Charles I. This ship was built in 1637, and in the following year formed the subject of the reverse of the medal by Nicolas Briot. This medallion is also by Briot and appears to be the original model for the matrix of a seal for the Admiralty which was not adopted.

An unpublished bronze medal of Admiral Vernon, struck in 1739 on his departure for Porto Bello.

Presented by Captain C. P. Wilson.

An unpublished bronze medal commemorating the defeat of the French fleet off Cape Finisterre in 1747.

A specimen in bronze of the gold "Ramsay Medal" awarded to the most distinguished student in the "Honours Humanity Class" in the University of Glasgow.

Presented by H. A. Grueber, Esq.

A bronze portrait medal of William Hughan as a founder of the *Quatuor Coronati* Lodge (No. 2076) of Freemasons.

Presented by William Hughan, Esq.

4 *Mediæval and Modern Series* :—

(a) Coins :—

A very important series of 129 foreign sterling of the fourteenth century, imitations of the English silver penny, representing the coinages of Flanders, Hainaut, Namur, Brabant, Liège, Herstal, Loos, Luxemburg, Bar, Toul, Cambrai, Ligny, Rethel, Porcien, the German Empire, Trier, Cologne, Lippe, Schöneck, Heinsberg, Jülich, Gelderland, etc. These were collected by the late Mr. Samuel Smith, who made a special study of the subject.

Bequeathed by the late Samuel Smith, Esq.

88 modern silver coins of Saxony and Bavaria.

Presented by J. R. McClean, Esq.

(b) Medals :—

A good specimen in lead of the medal by Pisanello of John VIII. Palæologus, Emperor of Constantinople: *obv.* Bust of the Emperor, Greek inscription; *rev.* The Emperor on horseback before a wayside cross; behind him, a mounted squire seen from behind. The artist's signature in Greek and Latin. This medal was made probably at Ferrara on the occasion of the Emperor's visit to Italy for the Councils of Ferrara and Florence (1438-9).

Presented by Alfred de Pass, Esq.

A fine silver-gilt medal by Antonio Abondio the Younger: *obv.* Bust of Christ, wearing crown of thorns; signed **AN. AB**; *rev.* Christ standing with the instruments of the Passion, supported by two putti, one of whom holds the Cross.

A bronze portrait-medal (not contemporary) of the painter Francesco Primaticcio.

Presented by Max Rosenheim, Esq., F.S.A.

A bronze medal of a Dutch Gild of Armourers: *obv.* St. Eligius; *rev.* Armourer at work. Dutch inscription signifying "He who receives this and does not return it forfeits one pound of wax." Signed **STE. H.** showing it to be by the medallist known as "Stephen of Holland," who worked from 1558-1572.

Presented by Max Rosenheim, Esq., F.S.A.

Five silver badges of the Société des Gueux: *obv.* **EN TOVT FIDELES AV ROY** Bust of Philip II. of Spain;

rev. **JVSQVE A PORTER LA BESACE.** Clasped hands and two wallets; or, Two Gueux shaking hands. Two of the specimens are dated 1566. These badges were worn by members of the well-known *Société des Gueux* formed in 1566 to resist the Inquisition while maintaining loyalty to the King.
Bequeathed by the late R. T. Pritchett, Esq.

A modern striking in silver from the Paris Mint of a medal of Louis XV. relating to the foundation and fortification of Louisburg (1720).
Presented by J. S. McLennan, Esq.

A bronze medal by the artist Godefroid de Vresse in commemoration of the International Exhibition held at Liège in 1905.
Presented by the Comité Exécutif of the Liège Exhibition of 1905.

5. *Oriental Series*:—

(a) Coins.

12 silver coins of the western Kshatrapa Nahapána, 6 of which have been countermarked by the Andhra Gautamiputra.
Presented by the Government of Bombay.

2 gold Kushán coins of the third century A.D.

Presented by the Government of the Central Provinces of India.

2 bronze and a silver coin of the white Huns and an early Indian cast coin.

Presented by E. G. Couetts, Esq.

A copper coin of the Omayyad Khalif Abd-al-Malik, struck at 'Ammán c. 690 A.D., imitated from the Byzantine.

A dirhem of the Abbasid Khalif Al-Mansur struck at Afreekiyeh, A.H. 144.

Presented by the British School of Archæology in Egypt.

28 silver and copper coins of the Ghaznawees and the Sultans of Delhi; also 3 gold fanams of Vijayanagar.

Presented by Evelyn Grant Duff, Esq.

5 silver larins or fish-hook money of Western India found in the Rahiagiri district, Bombay.

Presented by the Government of Bombay.

2 gold coins of the Malay State of Achee.

Presented by H. W. Thomson, Esq.

28 silver and copper coins of the Bahmanís, the Arab Governors of Sindh, the Moghul Emperors, and the modern State of Kashmir.

Presented by the Government of the Central Provinces of India.

14 rupees of the Moghul Emperor Aurangzíb from the rarer mints.

4 rupees of the Moghul Emperors, Sháhjahán and Aurangzíb.

Presented by S. Tulloch, Esq.

2 gold, 3 silver, and a copper coin of Nasr-ad-din and Muzaffar-ad-din of Persia.

A gold and a silver coin of Feth-'Ali-Sháh of Persia and a rare dirhem of the Buweyhid Khalif, Azad-ed-daulah, struck at Shiráz, 344 A.H.

10 forgeries of current Persian silver coins and a silver coin (altmishlik) of Seleem III. of Turkey struck at Islámból, A.H. 1204. *Presented by H. L. Rabino, Esq.*

(b) Medals.

A large silver medal struck in 1896 to commemorate the 50th regnal year (Mohammadan reckoning) of Nasr-ad-din, Sháh of Persia. *Presented by Evelyn Grant Duff, Esq.*

17 silver medals of Nasr-ad-din and Muzaffar-ad-din of Persia and a large gold medal struck in 1876 by Nasr-ad-din to commemorate the 100th year of the rule of the Kájár dynasty.

A gold nisár distributed at the funeral in February 1898 of Sultan Abdul Hawad of Selangor.

Presented by C. W. Harrison, Esq.

7 gold nisárs of the Moghul Emperors 'Alamgir II., Ahmad Sháh, Mohammad Sháh, Sháh 'Alam, and Bahadur Sháh.

Presented by Evelyn Grant Duff, Esq.

V.—*Students and Visitors.*

The number of visits made to the Department of Coins and Medals by students and others during the year 1907 was 4,191.

During part of the month of July and part of August, the department was necessarily closed to visitors and students during the cleaning and re-painting of the Medal Room, corridor, and adjoining studies.

H. A. Grueber.

X.—BRITISH MUSEUM (NATURAL HISTORY).

STATEMENT of PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and ACCOUNT of OBJECTS added to them, in the Year 1907.

GENERAL PROGRESS.

Visitors.

The total number of visits recorded as having been made by the public to the Museum during the year 1907 was 497,437, as compared with 472,557 in 1906—an increase of 24,880. The number of visits on Sunday afternoons was 66,367, as against 61,151 in the previous year.

The average daily attendance for all open days was 1,370·3; for week-days only, 1,386; and for Sunday afternoons, 1,276·3.

The time of closing the Museum in the latter half of February has been extended from 4.30 to 5 o'clock.

Swiney Lectures.

Dr. R. F. Scharff having postponed the delivery of his second course of lectures on the Swiney foundation until the autumn of 1908, the Trustees appointed Professor J. Cossar Ewart, M.D., Edin., to be Swiney Lecturer for 1907. He selected as the subject "Horses—Past and Present." The lectures, twelve in number, were given in the theatre at the Victoria and Albert Museum (by permission of the Board of Education), in December.

The average attendance for the course was 100 persons per lecture, as compared with 160 for that of 1906.

Electric Lighting.

His Majesty's Office of Works has been requested to put in hand the lighting of the Bird Gallery, the Fish Gallery, the Central and North Halls, and the East and West Corridors on the first floor, with inverted arc lamps of an approved pattern.

Heating and Ventilation.

The scheme for heating and ventilating the Museum prepared by the Chief Engineer of His Majesty's Office of Works has been approved by the Trustees, and the Lords Commissioners of His Majesty's Treasury have agreed to

provide in the Museum Estimate (Class IV.), 1908-9, for the installation of the new apparatus in the west (Zoological) wing of the building.

Works, etc.

The ceiling, walls, and pillars of the Bird Gallery have been whitened, in order to improve the lighting.

The construction of a room over the western corridor to contain the study collection of small mammals is being proceeded with.

On the recommendation of the Chief Officer of the London Fire Brigade, automatic sprinklers for fire protection have been placed in the building containing the collections preserved in spirit; and, for the better security of the Museum, an auxiliary fire main has been provided.

Expedition to Equatorial Africa.

By the liberality of several friends of the Museum, who supplied the requisite funds, an exhibition was organized under the leadership of Mr. R. B. Woosnam for the zoological exploration of Mount Ruwenzori in Equatorial Africa. The expedition was successful in obtaining a very fine and valuable collection of specimens of the fauna of the mountain, including a number of new species.

Gifts.

The total number of gifts received during the year by the several Departments of the Museum was 2,105, as compared with 2,057 in 1906. Many of these comprised large numbers of individual specimens. The details of the more important of them will be found in the reports of the Keepers of the Departments, but the following may be mentioned as of special interest:—

From the Egyptian Government.—An important series of fishes from the Nile, forming a portion of the collection made by Mr. Leonard Loat during the years 1899-1902, probably the largest collection of fishes from one river ever brought together. The Museum series includes the types of 30 new species.

From His Royal Highness the Prince of Wales.—The skeleton of an Indian elephant from Mysore.

From the Hon. W. Rothschild.—A mounted specimen of a bull of the Alaskan Elk.

From Mr. Boyd Alexander, in the name of the Alexander-Gosling Expedition.—The skin and skull of a male Okapi, and portions of the skin of two other individuals of the same species, obtained by him during his recent journey from Nigeria to the Nile.

From Major Powell-Cotton.—The skins of an adult male Okapi and a young Okapi, both from the Upper Ituri district of Equatorial Africa.

From Mr. A. O. Walker.—A copy of Paulson's work on the Crustacea of the Red Sea, published in 1875—an exceedingly rare book, of which only 100 copies were printed, only one other copy being known to be in England.

From the Duke of Bedford.—A further series of natural history specimens collected in the Far East by Mr. M. P. Anderson, comprising mammals from Hokkaido, Saghalien, and Mindanao, and birds from Saghalien, etc.

From Professor W. A. Herdman.—A number of sponges, including several type-specimens, collected by him during his investigation upon the Pearl Oyster Fishery of Ceylon.

From Mr. Henry Harvey.—A valuable series of types and figured specimens of shells, selected from the collection of the late Sylvanus Hanley, co-author in 1848-53 of the "History of British Mollusca."

From Mr. F. W. Styan.—A valuable collection of about 10,000 specimens of Chinese birds.

From Miss Glazebrook Rylands.—The important collection of diatoms made by her father, the late Thomas Glazebrook Rylands, consisting of about 6,000 microscope slides and 900 bottles of diatom material, besides a valuable correspondence.

From Mr. R. E. Turner.—A series of 1,893 Australian hymenoptera (including many type-specimens), collected and mounted by himself.

From Mr. Percy C. Tarbutt—A valuable series of minerals from the new mines at Broken Hill, N.W. Rhodesia.

The late Miss Caroline Birley has bequeathed to the Museum her valuable geological and mineralogical collections.

Purchases.

Among the more important purchases made during the year, special mention may be made of the following :—

The skeleton of an adult male Okapi, obtained by Major Powell-Cotton in the Ituri Forest; the Goodfellow collection of birds from New Guinea and Formosa; a collection made by Mr. G. S. Miller of 4,000 specimens of North American mammals, containing about 400 species, many new to the Museum; models of giant squid and octopus, for exhibition; part of the late Dr. F. Moore's collection of Indian and Malayan butterflies, including 119 type-specimens; a selected series of 150 remains of large extinct lemurs from a swamp of pleistocene age in Madagascar, nearly all the species represented being new to the Museum, and several new to science;

the collection made by the late Professor J. F. Blake of about 7,000 invertebrate fossils from India, Russia, and Britain; a collection of 14,000 brachiopoda and 950 mollusca from the trias of Bosnia; and the first half of the important collection of British sea-weeds made by the late Mr. E. A. L. Batters.

Exchanges and Gifts of Duplicates.

Exchanges of duplicate specimens have been made with various institutions and individuals.

The following have been added to the list of institutions to receive grants of duplicate specimens of natural history, viz. :—

The London School of Tropical Medicine; the Northern Polytechnic Institute, London, N.; Croydon Borough Museum, South Norwood; Mansfield Museum; Inverness Museum; and Dundonald Road School, Wimbledon.

The duplicate specimens of mammals and birds in the collection obtained by the Discovery Antarctic Expedition have been distributed among the following institutions :—

Royal Scottish Museum, Edinburgh; National Museum, Dublin; Cambridge University Museum; National Museum, Melbourne; South African Museum, Cape Town; Liverpool Museums; American Museum of Natural History, New York; Thames Nautical Training College, H.M.S. "Worcester"; Oxford University Museum; Christchurch Museum, New Zealand.

From the other duplicate specimens in store selections have been presented as follows :—

Of zoological specimens—to the Evening Education Committee of the Garden City, Letchworth; Bristol Museum; Guy's Hospital Medical School; the Royal Scottish Museum, Edinburgh; Oxford University; St. Andrews University; Plymouth Museum; the Natal Government Museum, Pietermaritzburg; the South Eastern Agricultural College, Wye; the National Museum, Dublin; the Hancock Museum, New castle-upon-Tyne; Mr. C. J. With; Professor G. Ulmer; Major H. Mann, for a small local museum at Milton Damerel, N. Devon; Dr. F. Spaeth; Dr. W. van der Weele; Professor J. B. Smith; Mr. A. Grouvelle; Mr. J. G. de Man; Mr. Budde-Lund; Mr. R. Shelford; Mr. P. Lesne; Mr. Martin Jacoby; Mr. S. Schenkling; and Mr. R. Gordon-Smith.

Of fossils and casts of fossils—to University College, London; Professor C. Depéret; Mr. J. A. Stigand; Dr. Otto Reis; and Professor F. Beyschlag.

Of minerals—to Professor J. Joly, of Dublin University; and Dr. F. Zambonini, of Naples University.

Of plants—to the Surveyors' Institution, Westminster.

Publications.

The following works on Natural History have been published during the year :—

National Antarctic (Discovery) Expedition, 1901-4. Natural History :—

Vol. I. Geology (Field Geology, by H. T. Ferrar ; Petrography, by G. T. Prior, D.Sc.). Pp. xii., 160, 10 plates, 72 text-figures, and 2 maps. 4to. £1 10s.

Vol. II. Zoology. 4 memoirs on Vertebrata, 1 on Pterobranchia, 5 on Mollusca, 1 on Brachiopoda, and 2 on Crustacea. Pp. xiv., 357, 33 plates, 146 text-figures, and 1 map ; many of the plates are from original drawings made by Dr. E. A. Wilson in the Antarctic. 4to. £3.

Vol. III. Zoology and Botany. A memoir on Collecting in Antarctic Seas, by Mr. T.V. Hodgson, the naturalist on board the "Discovery," 1 on Pteropoda, 4 on Crustacea, 1 on Pycnogonida, 1 on Acari, 1 on Chætognatha, 1 on Nematoda, 1 on Cestoda, 3 on Coelentera, 1 on Sponges, 2 on Marine Algæ, and 1 on Mosses. Pp. vi., 273, 51 plates, 8 text-figures, and 1 chart. 4to. £2 10s.

These reports are by various authors, English, French, German, and Belgian, and most have been generously contributed by naturalists not on the staff of the Museum.

Monograph of the Culicidæ, or Mosquitoes. Vol. IV. By Fred. V. Theobald, M.A. Pp. xix., 639, 16 plates, and 297 text-figures. 8vo. £1 12s. 6d.

Catalogue of the Works of Linnæus (and publications more immediately relating thereto) preserved in the Libraries of the British Museum (Bloomsbury) and the British Museum (Natural History). Pp. 27. 4to. 6d.

List of British Seed-plants and Ferns exhibited in the Department of Botany. Pp. 44. 8vo. 4d.

Guide to the Great Game Animals (Ungulata) in the Department of Zoology. Pp. 93, 53 text and other figures. 8vo. 1s.

Guide to the Specimens of the Horse Family (Equidæ) exhibited in the Department of Zoology. Pp. 42, 26 figures. 8vo. 1s.

Guide to the Fossil Invertebrate Animals in the Department of Geology and Palæontology. Pp. ix., 182, 7 plates, and 96 text-figures. 8vo. 1s.

Special Guide, No. 3.—Memorials of Linnæus : a collection of Portraits, Manuscripts, Specimens, and Books exhibited to commemorate the Bicentenary of his Birth. Pp. 16, 2 plates. 8vo. 3d.

New editions have been issued of the Guide to the Coral Gallery, price 1s. ; and the pamphlet of Instructions for Collecting Insects, price 3d.

Selections of the natural history publications of the Museum have been sent to Free Libraries and other institutions in Great Britain and Ireland, to Colonial, Indian, and foreign Museums, Libraries, and scientific societies, and to various individuals who have either assisted in the preparation of the volumes or otherwise benefited the Museum; and additions have been made to the publications exchange-list.

The under-mentioned works are in preparation :—

Catalogue of the Library, Vol. III.

National Antarctic Expedition, 1901–4. Natural History Vol. IV., V.

Catalogue of Bats, by Dr. Knud Andersen.

Monograph of the Okapi, by Sir E. Ray Lankester, K.C.B., F.R.S.

Hand-list of Birds, Vol. V., by Dr. R. B. Sharpe.

Catalogue of Birds' Eggs, Vol. V., by W. R. Ogilvie Grant.

Catalogue of the Fresh-water Fishes of Africa, by G. A. Boulenger, F.R.S.

Illustrations of African Blood-sucking Flies, with text by E. E. Austen.

Catalogue of Moths, Vol. VII., by Sir G. F. Hampson, Bart.

Catalogue of Polychæte Worms, by Dr. J. H. Ashworth.

Monograph of British Lichens, Vol. II., by Miss A. L. Smith.

Monograph of the Mycetozoa, second edition, by A. Lister, F.R.S.

Handbook of British Basidiomycetes, by W. G. Smith.

Catalogue of Marine Reptiles of the Oxford Clay, by Dr. C. W. Andrews.

Catalogue of Fossil Fishes, Vol. V., by Dr. A. Smith Woodward, F.R.S.

Catalogue of Cretaceous Bryozoa, Vol. II., by Dr. J. W. Gregory, F.R.S.

Guide to Elephants (Recent and Fossil).

Guide to the Fish Gallery.

Guide to the Exhibited Series of Insects.

GENERAL LIBRARY.

The additions to the General Library during the past year have been :—

By purchase - - - 412 volumes, and 7 maps.

By donation - - - 601 volumes, 21 maps, and
49 photographs.

By transfer from other

Departments - - - 46 volumes, and 23 maps.

TOTAL - - - 1,059 volumes, 51 maps, and
49 photographs.

All the volumes and maps have been catalogued, press-marked, and put in their places, while 717 volumes have been bound in 269, 148 have been repaired, and 1 map has been mounted.

The extent of the collection on the 31st of December was 36,901 volumes, 5,666 maps, and 383 photographs (not including those in the Owen Collection of Drawings, &c.).

The accessions to the Departmental Libraries have also been catalogued as they came in, and duplicate transcripts of the titles have been returned with the books.

Altogether 2,372 title-slips have been written, 341 rewritten, and 3,264 revised.

There are now, on a rough estimate, 84,086 volumes (exclusive of continuations and minor separata) and 5,951 maps in the whole building.

The printing of the Catalogue was resumed, and the work at the end of the year stood as follows:—

No. of sheets passed for press (A—Linnæus) - 144

No. of title-slips set up in type (A—Loew) - 33,578

A preprint of the titles of the works under the heading "Linnæus" was prepared and issued in time for the bicentennial celebrations of the birth of Linnæus. It includes the titles of such other of his works as are represented in the Department of Printed Books, but of which there are no copies in the Natural History Museum.

The identification of the Drawings in the Owen Collection is in progress.

The number of visits paid to the Library during the year by students and others (irrespective of the Staff) was 1,816.

INDEX MUSEUM AND MORPHOLOGICAL COLLECTIONS.

In the Entrance Hall a coloured cast of the Tile-fish, a fish which for several years after the heavy gales of the early part of the year 1882 was supposed to be extinct, has been placed in one of the centre cases, with a map showing the very limited distribution of the fish. In the same case have been added series of animals preserved in formalin, illustrating the nature of the food of the Plaice, Turbot, Sole, and Gurnard.

The series of specimens illustrating the life history of the Eel has been increased by an evenly graded series of *Leptocephalus* of the Freshwater Eel from the Mediterranean, and another of larvæ of the Conger Eel from the same region, also by a mass of Elvers from the Severn and some young Eels from the Thames.

The specimens of *Cephalodiscus nigrescens* and *C. hodgsoni* dredged in the Antarctic Ocean by the "Discovery,"

and another new species, *C. gilchristi*, obtained in the Cape Seas, and the specimen of *C. dodecalophus* dredged by the "Challenger," have been mounted in special exhibition jars, and after being shown for a time in the Entrance Hall have been placed on exhibition in the Shell Gallery.

The series of Crabs showing the extent to which the external appearance, particularly those characters known as secondary sexual characters, may become altered, in consequence of the animal being attacked by the parasite *Sacculina*, has been removed from the eastern side of the Entrance Hall to the Arthropod Gallery.

Two new cases have been constructed for Bay 6 in the Hall, and these are set up obliquely so as to secure the best possible illumination. They are intended for the series of Peas and Maize illustrating the Mendelian hypothesis of inheritance, and for a similar series of cross-bred Mice which is in progress, but not yet complete. Advantage has been taken of the incompleteness of this last series to use one of the cases for the temporary display of a series of Eolithic flint implements presented by Dr. H. P. Blackmore, and, for comparison with these, a selection of Eolithic and Palæolithic implements from the Prestwich Collection.

Much has been done in re-spiriting and remounting such of the anatomical preparations in the Entrance Hall as were in need of attention.

A series of twenty-two wax models illustrating the early development of the mollusc *Crepidula*, presented by the American Museum of Natural History, has been placed on exhibition in a cabinet case in the North Hall.

Experiments have been made to ascertain the best method of storing large skeletons, not required for exhibition, in such a manner that they may occupy the least possible space and yet be freely accessible for purposes of study, and a skeleton of Giraffe has been dismounted and stored in a specially constructed cabinet, to serve as a pattern.

E. Maunde Thompson,

Director and Principal Librarian

British Museum (Natural History),

22 February 1908.

DEPARTMENT OF ZOOLOGY.

I.—*Arrangement and Conservation.*

Mammalia.—The repainting of the ceiling of the lower mammal gallery involved the removal from the walls and tops of the cases of all the specimens of skulls, horns, and antlers, as well as of the pictures and labels on the walls. Advantage of this was taken to effect some modifications in the arrangement of the specimens, with the view to their better display.

To accommodate new specimens, and for other reasons, several cases in the lower mammal gallery have been opened up by the removal of the partitions, and thus rendered more effective for the display of their contents; these, as well as certain other cases in both upper and lower mammal galleries, have been painted green, instead of white, inside.

The new elk-case has been installed in the lower mammal gallery, and fitted with artificial ground-work of an effective type.

In the upper mammal gallery the chief work has been the transference of the specimens illustrating the Australian natives from a position among the Negro group to one in the Caucasian series, in accordance with modern anthropological views. This has involved certain changes in other groups; and where such changes have been extensive the opportunity has been taken to repaint the interior of the cases, with the substitution of a green for a white background.

Two new illustrated guide-books have been published, one dealing with Big Game Animals, and the other with the members of the Horse Group, both wild and domesticated.

Many of the descriptive labels in the upper and lower mammal galleries, as well as one in the whale-room, have been revised and reprinted in order to bring them up to date, while several additional labels have been prepared and installed.

Among the presentations added to the exhibition series, are:—Two Gobi Wild Horses, calf of Brindled Gnu, and a young American Tapir, presented by the Duke of Bedford, K.G. Albino Beaver skin, presented by E. J. Halsey, Esq. Model of African Elephant, presented by the Zoological Society. A male and head of female Caucasian Tur, presented by Prince Paul Demidoff. A Platypus, bequeathed by Mrs. Vernon Bell. Head of Hartebeest, presented by Walter Jones, Esq. Photograph of African Pigmies, presented by Sir Benjamin Stone, M.P. Female Forest-pig, presented by Cecil Whitaker, Esq. Young Gorilla, presented by Rowland Ward, Esq. Two Markhor skulls, presented by the Mehtan

of Chitral. Photographs of Sea-Elephants, presented by the Hon. Walter Rothschild, M.P. Skulls of African Antelopes, presented by F. Vaughan Kirby, Esq. An Arabian Oryx, presented by P. B. Vander Byl, Esq. and G. P. Denny, Esq. Two Sambar and one Buffalo skull, presented by Mrs. J. Anderson. Head of Kopet Dagh Urial, presented by Major Kennion. Model of *Megacerops*, presented by R. S. Lull, Esq. Head of a Seladang or Malay Gaur Bull, presented by T. R. Hubback, Esq. Head of Sclater's Muntjac, presented by J. H. Teesdale, Esq.

In the Whale Room the model of the Beluga or White Whale has been repainted; and arrangements are in progress for treating the casts of Dolphin-heads on the walls in a similar manner.

For the British Saloon a case to exhibit the characters of the skulls and teeth, and the details of the colouring of the skins of a large number of the smaller mammals has been completed and installed during the year. This has rendered it possible for the student to see at a glance the characteristic features of each species.

The most important presentations to this series are a Badger, from E. C. Hawes, Esq.; photographs of Carnivora and Rodents, from Douglas English, Esq., and five Bats, from Heatley Noble, Esq.

DOMESTICATED ANIMALS:—Several minor alterations have been made in the arrangement of the specimens, with a view, principally, of increasing the available accommodation; and additional descriptive labels have been prepared and printed to illustrate species new to the series.

The following are among the specimens presented to this series during the year:—

A Pariah Dog from Constantinople, presented by Her Grace the Duchess of Bedford. Skeleton of Eskimo Dog, *Arctic King*, presented by A. P. King, Esq. Slughy Hound, presented by the Hon. Florence Amherst. Skull of Bulldog, presented by H. S. Wormsley, Esq. Skull of Great Dane, presented by the Hon. Walter B. Wrottesley. Skeleton of Bloodhound, presented by Edwin Brough, Esq. Chinchilla Pekin Spaniel, presented by Mrs. F. M. Weaver. A Skye Terrier, presented by C. L. Vanderhoff, Esq. Skull of Dartmoor Pony, presented by Capt. S. S. Flower. A Poodle, presented by Miss C. M. Faithfull. Old English Sheep-Dog, presented by Mrs. Fase Forse. Head of Long-horn Bull, presented by G. C. Bacon, Esq. Head of Skye-Goat, presented by Sir Donald Currie, G.C.M.G. Head of Egyptian Sheep, presented by Capt. H. D. W. Lloyd. Casts of Humped Ox-horns, presented by Señor Don Bolivar. A Hausa Sheep, presented by the Zoological Society. Silver Runt Pigeon, presented by W. A. Hasler, Esq. Pekin Spaniel, presented by Rowland Ward, Esq.

In the study series of mammals the work of labelling, registering, and incorporating the accessions has been proceeded with. Three mahogany store-cabinets for the skins of small mammals, six deal store cabinets for larger mammals the size of a fox, and a block of deal cupboards for the skins of antelopes, &c., have been added. Acquisitions continue to come in to this section at a rate which makes it difficult to keep pace with the work entailed. The department is, however, indebted for much valuable assistance in this matter to volunteer helpers, among whom are Mr. R. C. Wroughton, Dr. Forsyth Major, F.R.S., and Mr. Gerrit S. Miller.

With the assistance of a private donor, the services of Dr. Knud Andersen have been continued in working out and re-labelling the collection of Chiroptera in preparation for his forthcoming work on the new edition of the Catalogue.

The work of building the new mammal store-room above the Western Corridor has been commenced.

Aves.—Progress has been made with the work in the Gallery; the British Birds in the Pavilion have now been mostly remounted or renewed, and will shortly be completely arranged.

Cases containing the Bower of the Gardener-Bower-Bird (*Amblyornis subalaris*), and a nesting group of Buffon's Skua (*Stercorarius parasiticus*) have been added.

The Catalogue of the Eggs, Vol. V., has been continued to the end of the *Fringillidae*, and Vol. V. of the "Handlist of Birds" is approaching completion.

A considerable number of skeletons has been added to the Avian Osteological series: partly by the incorporation of the Robert Collection, and partly by preparations made from specimens in the Spirit Collection, preserved for that purpose. In addition much curatorial work has been necessary to keep the collection in order. The arrangement of the Passerine skeletons is approaching completion.

Reptilia.—In the Reptile Gallery general conservation and revision of descriptive labels have been carried on during the year.

Among purchases, are a number of casts of reptiles and amphibians from Ward, of Rochester. A full-sized model of the skeleton of the Horned Dinosaur has also been installed during the year.

Pisces.—In the Fish Gallery sloping backgrounds have been fitted into Wall-cases 8-13 similar to those in the rest of the Gallery, and the appropriate specimens have been arranged upon them.

Forty-two specimens of fishes have been restored and coloured according to published coloured figures and descriptions, in continuation of the work begun in 1904, and seven new stuffed specimens and four coloured casts have been

added; also a number of morphological preparations to illustrate certain anatomical features that are utilised in the classification of Fishes.

A new specimen of the Port Jackson Shark, specially sent from Australia in ice, has been mounted in the centre line of the Gallery; and a copy of the Prince of Monaco's oceanographic map of the world has been framed and attached to the table-case that contains the Sea-perch, *Epinephelus lanceolatus*.

The Card-Catalogue of the specimens exhibited in the Fish Gallery, drawn up so as to give the British Museum register number of each specimen, the locality and history, and the references to the figures and descriptions from which it was coloured, has now been completed. A Hand-List of the 830 specimens has also been drawn up and indexed.

The northern half of the Fish Gallery was re-opened to the public in November, and the various table-cases and cabinet-cases in that part of the Gallery were re-arranged. The arrangement of the specimens in Wall-cases 6-15, however, is still incomplete. In order to avoid delay in throwing open the whole of the Gallery to the public, the names only of the fishes in these cases have been attached; printed labels giving the special features of interest of each fish, similar to those in Wall-cases 1-5 and 16-20, will be proceeded with during the year 1908.

A Guide-book to the Gallery of Fishes is in an advanced stage of preparation, and will probably be completed in March 1908. This Guide will contain photographic reproductions of the restored models of extinct fishes and deep-sea fishes which have been specially prepared in the Museum during the past four years. The system of appending a numeral against each specimen exhibited, already followed in the Galleries of Birds and Reptiles, is being adopted in the Fish Gallery (although not yet fully carried out), and references to these numerals are being made in the Guide.

The work of expanding the collection in the spirit building has proceeded, and is now practically finished. It has been found impossible to expand the Reptile collection, and nearly half of the Fish collection, which still remain in a state of great congestion. The new cases which were made a short time ago are occupied by the Batrachians and the fresh-water fishes of Africa; the removal of these groups has permitted the temporary expansion of about half of the general collection of Fishes. A catalogue of the African fresh-water fishes being now in preparation, these have been placed together as a provisional step, it being impossible for want of room to expand or arrange them in their proper place in the main collection.

Mollusca.—An exhibition case containing Cephalopoda has been partly arranged, the re-mounting and re-labelling of

the land shells have been continued, and the study collection of *Stenogyrinæ* has been arranged geographically. The types from the Hanley and Da Costa collections have all been identified with the descriptions and figures, mounted and incorporated, and two collections from the Central African Lakes and Birket el Kurum have been worked out and reported on. All the numerous acquisitions have been registered, mounted, and placed in the general collection.

Arachnida and Myriopoda.—The arrangement of the exhibited series of *Arachnida* and *Myriopoda* has been completed, and the cases in which the specimens are contained have been cleaned. Progress has been made with the compilation of the manuscript catalogue of *Scorpions* and a card-catalogue index to the collections of *Arachnida* has been begun. The determination of the unnamed *Arachnida* in the collection has been continued, and the *Solifugæ* and *Mygalomorph Spiders* have been worked out.

The *Oniscomorph Myriopoda* from the Malay Peninsula and from Siam have been identified, and a report on the more interesting forms has been published.

Some of the *Ticks* received during the year have been sent to Professor Neumann for identification, the remaining specimens have been determined in the Museum.

Insecta.—The Central American *Pselaphidæ*, and the *Silphidæ*, *Cucujidæ*, and *Colydidæ* contained in the Sharp Collection have been incorporated. The *Dynastidæ* have been entirely revised and re-arranged, and all accessions incorporated, all the *Lamellicorn Coleoptera* still remaining from the Pascoe, Fry, and Hauser Collections have been dealt with, and the great *Coprophagous genera Onthophagus* and *Oniticellus* have been arranged, and many new species described. The re-arrangement of the *Buprestidæ* has been continued. The arrangement of the *Elateridæ* and incorporation of the various accessions belonging to that family have made further progress, and additions have been made to the earlier groups from the Fry and Sharp Collections. The *Longicornia* of the Sharp Collection required for the General Collection of *Coleoptera* have also been selected and incorporated.

The undetermined specimens of Oriental *Cleridæ* have been worked out by Herr Sigmund-Schenkling, and many new species described; Mr. G. A. K. Marshall has arranged various groups of African and Oriental *Curculionidæ*, incorporating the additions and describing the new species; and all the African representatives of the great *Curculionid* genus *Apion* contained in the Museum have been brought together and are now being worked out by Herr Hans Wagner.

The revision of the MS. of the 3rd volume of the Catalogue of *Orthoptera*, which will include the *Locustidæ*, has made steady progress, and the revision of that portion of

the collection has proceeded concurrently with it, and is now completed to the end of the important family *Tryxalidæ*. A large number of accessions in *Locustidæ* and other families of Orthoptera have also been determined and incorporated.

In the Hymenoptera a commencement has been made with the arrangement of the *Ichneumonidæ*, the sub-families *Evaniinæ* and *Gasteruptioninæ* being completed. The Department has had the advantage of the services of Mr. R. E. Turner, who has arranged a portion of the Fossores, viz., the *Thynnidæ* and three genera of *Scoliidæ*.

The incorporation of additions to the collection of British Diptera has been continued, and the *Dolichopodidæ* and *Empidæ* have been re-arranged, a large series of named specimens presented by Lieut.-Colonel J. W. Yerbury having been incorporated. In the General Collection a portion of the African *Tabanidæ* has been determined, and new species, to be figured in "Illustrations of African Blood-sucking Flies," have been described; the major part of the family *Diopsidæ* has been worked out; and species belonging to the genera *Lyperosia*, *Chrysomyia*, *Thelychæta*, and *Alluaudinella* (family *Muscidæ*) have been determined. Labels have been prepared for Mr. Terzi's drawings of British Blood-sucking Flies, to be exhibited in the North Hall. A number of collections of Blood-sucking Flies, received during the year from all parts of the World, have been determined and incorporated, and reports on collections and specimens, believed to be of economic importance, have been furnished to various authorities in India and elsewhere. Information concerning a number of Indian species described by Fabricius and Walker, the types of which are in the British Museum, have been supplied to the Indian Museum, Calcutta.

The incorporation of Dr. Eger's collection of European Homoptera has been practically completed, and a very large proportion of the Homoptera, described in the "Biologia Centrali-Americana," have been similarly dealt with. In the family *Fulgoridæ*, the *Derbinæ*, have been re-arranged, Walker's species examined, and a large number of undetermined specimens named and incorporated. The *Jassidæ* are in course of arrangement, several of the sub-families having been completed, and some fine collections of Australian *Cicadidæ* have been worked out, and the results published.

The collection of Acraeine Butterflies has been transferred and re-arranged in the new cabinets, as also the Nymphaline genera allied to *Hypolimnas*, *Salamis*, *Kallima*, and *Eurytela*. The re-arrangement of the genus *Precis* was kindly undertaken by Mr. Guy Marshall, and Mr. H. J. Elwes almost completed the arrangement of the Holarctic *Hesperiidæ*.

Volume VI. of the Catalogue of Moths, containing the Noctuid sub-family *Cucullianæ* has been published, and the

sub-family has been arranged; and the MS. of Volumes VII. and VIII., containing the *Acronyctinæ* has been completed.

In the *Geometridæ* the re-arrangement of the *Boarmianæ* has been completed, and portions of the *Acidalianæ*, *Enochrominæ*, and *Orthostixinæ* have been dealt with. The whole of the American types of *Geometridæ* in Mr. Rothschild's collection, described by Mr. Warren, have been compared with the Museum Collection by Mr. L. B. Prout, and numerous species identified.

The re-arrangement of the collection of British Lepidoptera has been completed.

Crustacea.—The arrangement of the exhibited series has been continued, and a large number of spirit and other specimens and some illustrative coloured drawings have been added. The cases illustrating the classification of the lower Malacostraca and the Entomostraca have been practically completed during the year. Specimens of the recently re-discovered British *Apus cancriformis* have been mounted as a special exhibit in the Central Hall. In the Crustacea room some urgently-needed space has been gained by fitting an additional shelf in most of the cases containing the spirit collection, and advantage has been taken of the re-arrangement involved to label the cases and shelves in a manner more convenient for reference. A large number of the bottles have also been cleaned and refilled. The dry collection of Cirripedes has been transferred to the new cases and arranged in systematic order. Important exchanges have been carried out with the Museums of Paris and Dundee, and a very heavy list of other accessions has been dealt with. Work on the Cumacea has been continued, and on the publication of the first part of a report on Cumacea of the Copenhagen Museum, the collection has been enriched by a valuable set of co-types. The collection of Spiny Lobsters (*Palinuridæ*) has been revised in the light of recent work, and the unnamed material of the family determined.

Prototracheata, Echinoderma, Vermes, and Anthozoa.—The whole of the spirit collection has been gone through and rearranged, and a new MS. Catalogue of the systematically arranged specimens has been prepared; this is being indexed, and will greatly facilitate the speedy finding of specimens required for study, but the necessity of increased space for the collection of Invertebrata is rapidly becoming urgent.

All the specimens of Prototracheata received during the year have been named by Prof. Bouvier, registered, and incorporated.

All the specimens of Echinoderma received during the year have been named and incorporated; the systematically arranged and exhibited specimens have been provided with a number, as have also the exhibited Worms.

Dr. Ashworth has commenced a catalogue of the *Arenicolidae*; Prof. Benham presented a number of the New Zealand Polychaeta, which he had entrusted to the eminent specialist Prof. Ehlers for naming. Various kinds of worms have been named by Mr. Shipley, F.R.S., Mr. Beddard, F.R.S., Signor Cognetti de Martiis, and Mr. Cave, of the Agricultural College, at Wye; nearly all the worms obtained during the year have been determined before incorporation.

The few Anthozoa obtained during the year have been nearly all named.

Some progress has been made with the revision of the Guide to the Starfish Gallery.

Tunicata, Brachiopoda, Polyzoa, Hydrozoa, Porifera, and Protozoa.—The work done during the year consisted in preparing and completing the second part of the Report on the Antarctic Sponges (Tetractinellida and Monaxonellida, plates VIII.-XXVI.); in conserving, registering, and labelling the acquisitions; in naming unnamed specimens, especially of sponges, partly of those recently acquired, partly of those belonging to the general collection.

II.—*Duplicates and Exchanges.*

Duplicates have been presented to the Royal Scottish Museum, Edinburgh; the Dublin Museum; the Hancock Museum, Newcastle; St. Andrews University Museum; Plymouth and Liverpool Museums; the University Museum, Cambridge; the Garden City, Letchworth; Professor G. C. Bourne; Major H. Mann, and Mr. R. Gordon Smith.

Exchanges have been effected with the Carnegie Museum, Pittsburgh; University College Museum, Dundee; Indian Museum, Calcutta; and the Museums of Basle, Berlin, Genoa, Magdeburg, Oxford, Paris, and Sao Paulo; also with Mr. E. C. Bedwell, Prof. Bouvier, Mr. H. J. Carter, Prof. A. N. Caudell, Mr. A. J. Chitty, Prof. Clark, Prof. C. H. Eigenmann, Prof. Joseph Gillet, M. Antoine Grouvelle, Mr. Martin Jacoby, Mr. W. J. Kaye, Mr. G. A. K. Marshall, Dr. F. Ohaus, Mr. R. C. L. Perkins, and the Hon. N. C. Rothschild.

III.—*Departmental Library.*

One hundred and twenty-one separate works in 274 volumes, new to the Library, and 1,472 parts of periodicals and works in progress have been acquired during the year, by purchase, presentation, and exchange. Two hundred and thirty-one books have been bound. The Library now contains 11,142 separate works in 17,932 volumes.

Among the donations to the Library reference may be made to a copy of Sonnini's edition of Buffon's *Histoire Naturelle*, consisting of 127 bound volumes, presented by Captain Glyn.

IV.—*Independent Publications.*

In addition to the official Catalogues and volumes published by the Trustees, already mentioned, various reports and descriptive papers have been prepared in connection with the different branches of the collection, and published in scientific journals.

For convenience of reference the following list is appended:—

Mammalia.—“On Mammals from Northern Persia, presented to the National Museum by Col. A. C. Bailward”; “On three new Mammals from British New Guinea”; “List of further collections of Mammals from Western Australia obtained for Mr. W. E. Balston”; “The Duke of Bedford’s Zoological Exploration of Eastern Asia; List of small Mammals from Korea and Quelpart; On Mammals obtained by Mr. M. P. Anderson in the Philippine Islands; List of small Mammals from the Islands of Saghalien and Hokkaido; Second List of Mammals from Korea”; “On further new Mammals obtained by the Ruwenzori Expedition”; “On a new Dormouse from Asia Minor, with Remarks on the sub-genus ‘*Dryomys*’”; “On a remarkable Mountain Viscacha from Southern Patagonia, with Diagnoses of other Members of the Group”; “A new Flying-Squirrel from Formosa”; “A new *Acanthoglossus* from the Island of Salawatti”; “On a new Monkey from the Ituri Forest”; “On the Occurrence of the Edible Dormouse (genus *Glis*) in Sardinia”; “On the Occurrence of *Acanthoglossus* in British New Guinea”; “On Neotropical Mammals of the genera *Callicebus*, *Grison*, *Reithrodontomys*, *Ctenomys*, *Dasyppus*, and *Marmosa*”; “A subdivision of the old genus *Nesokia*, with descriptions of three new members of the Group, and of a *Mus* from the Andamans”; by O. Thomas.

“New Mammals from Lake Chad and the Congo, mostly from the Collections made during the Alexander-Gosling Expedition”; “The Rudd Exploration of South Africa; List of the Mammals obtained by Mr. Grant at Coguno, Inhambane”; by O. Thomas and R. C. Wroughton.

“On a Collection of Mammals made by Mr. S. A. Neave in Rhodesia, North of Zambesi”; “On Three new Mammals from South Africa”; “List of a Collection of small Mammals made by Mr. A. L. Butler in the Bahr-el-Ghazal”; by R. C. Wroughton.

Aves.—The further collections of Birds from the Efulen District of Cameroons, West Africa, with notes by the collector, G. L. Bates; “Presidential Address to the Fourth International Ornithological Congress”; “On new species from the river Ja, Cameroons”; “On the occurrence of the American Wigeon on the island of Benbecula”; “On the occurrence of the Waxwing in Bannu, N.W. frontier of India”; “On rare species from Kambore on the Lower

Congo, collected by Mr. Sheffield A. Neave"; "On a new species of *Coly*, *Colius kirbyi*, from the Eastern Transvaal"; by R. Bowdler Sharpe.

"Description of six new Malayan birds"; "On three new species of birds from Annam"; "Description of a new Chat-thrush from Somaliland"; "Description of four new species of birds from Ruwenzori"; "Description of a new species of Yellow Flycatcher (*Chloropeta storeyi*)"; "Description of a new King-bird-of-Paradise from the Cyclops Mountains, German New Guinea"; "Description of five new species of birds from the Congo Forest"; "Description of a new Alpine Swift from Ruwenzori"; "Remarks on the occurrence of *Lagopus hyperboreus* in Franz Joseph Land"; "Description of two new species of birds from the Mpanga Forest"; "Description of two new Parrots from New Guinea"; "Description of six new species of African birds from the Collection made by Mr. Douglas Curruthers"; "Description of two new species of African birds"; "Report on the immigrations of Summer Residents in the spring of 1906"; "On the Birds of the Island of Formosa"; "On the species of the genus *Pseudogerygone*"; "On the Birds procured by Mr. W. N. McMillan's Expedition to the Sobat and Baro Rivers"; "Descriptions of five new species of birds from Ruwenzori"; "Description of a new species of Weaver-Finch from Fernando Po"; "Descriptions of three new species of birds from Bahr-el-Gazal"; "On two examples of supposed hybrids between Red Grouse and Ptarmigan"; "On a remarkable stage of Plumage in the Great Northern Diver"; by W. R. Ogilvie-Grant.

"Contributions to the Osteology of Birds:—Part IX. Tyranni, Hirundines, Muscicapæ, Laniæ, and Gymnorhines"; "On the Anatomy and Systematic position of the Colies"; "Notes on a Nestling *Calopsittacus novæ-hollandiæ*"; by W. P. Pyecraft.

"On a new species of *Heleodytes* from Peru"; "On a new species of *Sisopygis* from Bolivia"; by C. Chubb.

Reptiles and Batrachians.—"Second Report on the Batrachians and Reptiles collected in South Africa by Mr. C. H. B. Grant, and presented to the British Museum by Mr. C. D. Rudd"; "On *Lacerta ionica*, Lehrs"; "Descriptions of three new Lizards and a new Frog discovered by Dr. W. J. Ansorge in Angola"; "Descriptions of three new Snakes discovered by Mr. G. I. Bates in South Cameroon"; "Description of a new Frog of the genus *Telmatobius* from Brazil"; "Descriptions of two new African Lizards of the genus *Latastia*"; "Descriptions of new Lizards in the British Museum"; "Remarks on Professor L. von Méhely's paper 'Zur Lösung der *Muralis*-Frage'"; "Description of a new Engystomatid Frog of the genus *Breviceps* from Namaqua-

land"; "Description of a new Toad and a new Amphisbaenid from Mashonaland"; "Description of a new Frog discovered by Dr. W. J. Anson in Mossamedes, Angola"; "Description of a new Pit-Viper from Brazil"; "Description of a new African Snake of the genus *Simocephalus*"; "Description of a new Tortoise from Travancore"; "On a collection of Batrachians and Reptiles made by Mr. S. A. Neave in Rhodesia"; "Description of a new Lizard from Ceylon"; "Descriptions of two new Indian Frogs"; "On a collection of Batrachians from Nepal and the Western Himalayas"; "Description of a new Snake from Nepal"; by G. A. Boulenger.

Fishes.—The Fishes of the Nile. By G. A. Boulenger, 2 vols., 4to., published for the Egyptian Government.

"On a small collection of Fishes made in the Eastern watershed of the Transvaal by Captain G. E. Bruce"; "On *Barbus aureus* from Natal"; "Description of a new Cyprinid Fish of the genus *Labeo* from the Transvaal"; "On the variations of *Stereolepis gigas*, a great Sea-Perch from California and Japan"; "On an African Barbel hitherto confounded with *Barbus trimaculatus*"; "Description of three new Freshwater Fishes discovered by Mr. G. L. Bates in South Cameroon"; "Description of a new Cichlid Fish from Portuguese East Africa"; "Descriptions of two new Freshwater Fishes discovered by Dr. W. J. Anson in Mossamedes Angola"; "Descriptions of two new African species of *Barbus*"; "Descriptions of three new Fishes from Central Africa"; "Descriptions of three new Freshwater Fishes discovered by Mr. G. L. Bates in South Cameroon (No. 2)"; "On a collection of Fishes made by Mr. S. A. Neave in Rhodesia"; by G. A. Boulenger.

"Biologia Centrali-Americana, Pisces, parts 2, 3, and 4"; "On the Anatomy, Classification, and Systematic Position of the Teleostean Fishes of the sub-order Allotriognathi"; "Descriptions of the Teleostean Fish *Velifer hypselopterus* and of a new species of *Velifer*"; "On a Collection of Fishes from Nepal and the Western Himalayas"; "Descriptions of three new Freshwater Fishes from China"; "Note on *Raia undulata*, Lacep."; "Descriptions of two new Characinid Fishes from South America"; "Descriptions of two new Characinid Fishes from Argentina"; "Descriptions of new Freshwater Fishes from Mexico and Central America"; "Diagnoses of Central-American Fishes of the families *Cyprinodontidae* and *Mugilidae*"; "Description of a new Cyprinid Fish from Upper Burma"; by C. Tate Regan.

Mollusca.—"Note on *Fistulana mumia* perforating a valve of a *Dosinia*"; "Note on *Paludestrina jenkinsi*"; "Description of a new species of *Calliostoma* from South Formosa"; "Notes on an 'Octopus' with branching arms"; "Note on the occurrence of pearls in *Haliotis gigantea* and *Pecten* sp."; "Notes on *Achatina dennisoni*,

Reeve, and *A. magnifica*, Pfeiffer"; "The marine fauna of Zanzibar and British East Africa, from the collections made by Cyril Crossland in the years 1901 and 1902. On some species of Solenidæ"; by E. A. Smith.

Insecta.—"A contribution to the Classification of the Coleopterous family *Passalidæ*"; "Some new Species and Genera of Lamellicorn Coleoptera from the Indian Empire" (two papers); by G. J. Arrow.

"Descriptions of new Genera and Species of Longicorn Coleoptera from Sumatra"; "On the Elaterid genera *Hypnoidus*, Steph., and *Cryptohypnus*, Eschs."; by C. J. Gahan.

"The Synonymy and generic position of certain Species of *Muscidæ* (sens. lat.) in the collection of the British Museum, described by the late Francis Walker"; "A new genus and species of Phlebotomic *Muscidæ* from Aden"; "A rare British Fungus-Midge (*Ceroplatus lineatus*, Fabr.) re-discovered in London"; "*Cordylobia anthropophaga*, a Parasitic African Fly"; "New African Species of the Genus *Chrysops*, Meigen, in the British Museum (Natural History)"; "Blood-sucking and other Flies known or likely to be concerned in the spread of Disease"; by E. E. Austen.

"New Species of *Sphigidæ* from Australia"; "A Revision of the *Thynnidæ* of Australia"; by R. E. Turner.

"Rhynchotal Notes XLII. and XLIII."; "Description of a new Species of *Cicadidæ* from East Africa"; "Contributions to a knowledge of the *Ledrinæ*"; by W. G. Distant.

"Supplementary Papers on the Moths of India, Series III."; "New *Pyalidæ* of the Subfamilies *Hydrocampinæ* and *Scopariacæ*"; "Two new Indian *Sphingidæ*"; "New *Trygænidæ* in the British Museum"; by Sir George F. Hampson, Bart.

Crustacea.—"On a Freshwater Decapod Crustacean collected by W. J. Burchell at Para in 1829"; "Sur quelques Cumacés des côtes de France"; "On new or rare Crustacea of the order Cumacea from the Collection of the Copenhagen Museum, Part I"; by W. T. Calman.

"On a collection of Crustacea Decapoda and Stomatopoda chiefly from the Inland Sea of Japan, with descriptions of new species"; by Dr. J. G. de Man.

"Report on the Brachyurous Crustacea of the third Tanganyika Expedition"; by Dr. W. A. Cunnington.

Arachnida and *Myriopoda*.—"Notes on Scorpions, with Descriptions of two new Species"; "On a new species of *Karschia* from Tibet"; "On two Spiders of the genus *Selenocosmia*"; "Descriptions of new Species of African Spiders and *Solifugæ*"; "On four new Pill-Millepedes from the Malay Peninsula and Siam"; by A. S. Hirst.

The following papers are based wholly or in part on British Museum material:—

“Notes sur les Ixodidés—v.”; by Professor L. G. Neumann.

“On some New Species of *Cheliferidæ*, Hans., and *Garypidæ*, Hans., in the British Museum”; by C. J. With.

Prototracheata.—Professor Bouvier has completed his “Monographie des Onychopores,” Paris, 1907; he was largely assisted in this work by loans from our collection, which he calls “plus riche que toutes autres en individus et en espèces.”

Porifera.—“Description of a new Hexactinellid Sponge from the Indian Ocean”; “Notes on African Fresh-water Sponges”; by R. Kirkpatrick.

V.—Acquisitions.

-----		Donations.	Purchases.	Exchanges.	Total.
Mammalia	{ Gerrit Miller Collection	—	3,000	—	} 5,231
	{ Other sources - -	2,008	189	9	
	{ Domesticated - -	21	3	1	
Aves	{ Styan Collection - -	10,000	—	—	} 13,422
	{ Howard Saunders bequest -	835	—	—	
	{ Other sources - -	1,624	944	19	
	Eggs, nests, and skeletons -	144	305	30	479
Reptilia	- - - - -	560	260	5	825
Batrachia	- - - - -	307	343	8	658
Pisces	- - - - -	4,848	318	52	5,218
Tunicata	- - - - -	42	38	—	80
Mollusca	- - - - -	3,773	1,692	—	5,465
Arachnida	- - - - -	1,743	1,080	—	2,823
Myriopoda	- - - - -	47	390	—	437
Insecta	{ Godman Collection - -	4,631	—	—	} 37,600
	{ Elwes Collection - -	2,077	—	—	
	{ Other sources - -	25,918	4,454	520	
Crustacea	- - - - -	2,106	172	276	2,554
Prototracheata	- - - - -	1	20	5	26
Echinoderma	- - - - -	198	—	51	249
Vermes	- - - - -	106	6	—	112
Brachiopoda	- - - - -	9	—	—	9
Anthozoa	- - - - -	31	12	—	43
Polyzoa	- - - - -	59	—	—	59
Hydrozoa	- - - - -	73	—	—	73
Porifera	- - - - -	391	—	31	422
Protozoa	- - - - -	19	—	—	19
Totals	- - - - -	61,571	13,226	1,007	75,804

Mammalia.—In this class the accessions number five thousand two hundred and thirty-one, of which the following are most worthy of note:—

The collection of small mammals, mostly North American, made by Mr. Gerrit S. Miller, numbering about three thousand specimens and including the types of seventeen species; purchased.

A specimen of a male Okapi, obtained in the Upper Congo; presented by Lieut. Boyd Alexander, on behalf of the Alexander-Gosling Expedition.

An adult and young male Okapi, from the Ituri district of equatorial Africa; presented by Major Powell-Cotton.

A mounted Badger from Horsham; presented by E. C. Hawes, Esq.

Two bats from Sardinia; presented by the Hon. N. C. Rothschild.

Forty-four mammals from the S. Coast of the Caspian Sea, including four types of species new to science, collected by R. B. Woosnam, Esq.; presented by Col. A. C. Bailward.

Twenty-three mammals from Asia Minor; presented by W. G. Blackler, Esq.

Six mammals, including the types of *Mus comberi* and *M. listoni*, from the Bombay Presidency; presented by the Bombay Natural History Society.

Twenty-nine mammals from British New Guinea, including the type of a new genus (*Crossomys*); presented by C. A. W. Monckton, Esq.

The skeleton of an Indian elephant from Mysore; presented by H.R.H. The Prince of Wales.

Seven mammals from the N.W. Frontier of India; presented by C. H. T. Whitehead, Esq.

Twenty mammals from Java and the Batu Islands; purchased.

Thirty-one mammals from various localities in China; presented by E. B. Howell, Esq.

Eighteen mammals from Syriam, Rangoon; presented by Maj. H. H. Harington.

Seven mammals from W. Himalayas; presented by Maj. H. A. F. Magrath.

Twenty mammals chiefly from Yamasaki, Japan; presented by R. Gordon Smith, Esq.

Twenty-eight mammals from N. Ladak, Punjab, and N. India; presented by H. Holmes-Tarn, Esq.

Twenty-eight mammals from Siam; presented by H. H. Lyle, Esq.

Twenty-four mammals from the Punjab; presented by Maj. H. N. Dunn, R.A.M.C.

Thirty-six mammals from Bombay; presented by the Bombay Natural History Society.

Sixty-two mammals from Mt. Ruwenzori and the Ituri Forest; presented by the Ruwenzori Exploration Committee.

Twelve mammals from Southern Nigeria; presented by Elphinstone Dayrell, Esq.

Six mammals from British East Africa; presented by S. L. Hinde, Esq.

Eighty-two mammals, chiefly from the East Loangwa District, collected by S. A. Neave, Esq.; presented by the Manchester Museum.

Eighteen mammals from Angoni Land and Nyasa; presented by Chas. B. C. Storey, Esq.

Fourteen mammals from Natal; presented by Mrs. E. J. Turner.

Ten mammals from Mashona; presented by Guy A. K. Marshall, Esq.

Twenty-five mammals from Somaliland; presented by R. E. Drake Brockman, Esq.

Eighteen mammals from Stellenbosch, Cape Colony; presented by Prof. R. Broom.

Eleven mammals from Eastern Orange River Colony; presented by C. W. Turner, Esq.

Twenty-five mammals from the Sabi River; presented by Major J. Stevenson Hamilton.

Twenty mammals from Angola, collected by Dr. W. J. Ansorge; purchased.

A porcupine from Zomba, Nyasa; presented by Sir Alfred Sharpe.

Forty-two mammals from the Upper Congo, Lake Tanganyika, Lake Albert Edward, and Lake Kivu; purchased.

Two hundred and sixty-three mammals including the types of *Cercopithecus patas sannio*, *Rhynchocyon claudi*, *Mellivora concisa*, *Crossarchus alexandri*, *Lycan shanicus*, *Funisciurus alexandri*, *Tatera lacustris*, *Colomys goslingi*, and six other species new to science; presented by the Alexander-Gosling Expedition.

Four mammals from Sierra Leone; presented by Capt. L. Murray.

One hundred and sixty-two skulls, chiefly of cats, from graves at Gizeh, dated 600-200 B.C. collected by Professor Flinders Petrie; presented by the Egyptian Research Account and British School of Archæology in Egypt.

Eighteen mammals from Uganda; presented by L. M. Seth Smith, Esq.

Fifty-seven mammals from Kambove, Katanga, collected by S. A. Neave, Esq.; purchased.

Sixteen mammals from West Australia; presented by the Perth Museum, West Australia, through B. H. Woodward, Esq.

Seventy-one mammals from Margaret River and Yallingup, S.W. Australia, collected by Mr. G. C. Shortridge; presented by R. E. Balston, Esq.

Six mammals from Patagonia; presented by J. A. Wolffsohn, Esq.

Five mammals from Costa Rica ; purchased.

Five mammals from British Guiana ; presented by Carl Bovallius, Esq.

Eighteen mammals from Rio Demerara, collected by Mr. S. B. Warren, and twenty-five from Central Bolivia collected by J. Steinbach and including the types of three new species ; presented by Oldfield Thomas, Esq.

One hundred and forty-one mammals from N. Queensland and Northern Territory, S. Australia, collected by Mr. W. Stalker ; presented by Sir William Ingram and the Hon. John Forrest.

Sixty-three mammals from Korea ; eighteen from Mindanao ; two hundred and thirty-three from Saghalién and Hokkaido, collected by Mr. M. P. Anderson. Also a mounted Deer (*Cervus sika manchuricus*) from the Liu Kiu Islands ; a young Tapir (*Tapirus terrestris*) from Brazil ; and a mounted Mongolian Wild Horse (*Equus caballus przewalski*) from the Gobi Desert ; presented by His Grace the Duke of Bedford, K.G.

Twenty-five mammals from Hungary ; a mounted specimen of the Alaskan Elk (*Alces gigas*) from Cook Inlet, Alaska, and a Deer (*Cervus unicolor boninensis*) from Bonin Island ; presented by the Hon. Walter Rothschild, M.P.

One hundred and twenty-nine mammals from Portuguese E. Africa, collected by Mr. Claude Grant ; presented by C. D. Rudd, Esq.

Aves.—The accessions number thirteen thousand nine hundred and one. Of these the most noteworthy are :—

Ten thousand specimens from China ; collected and presented by F. W. Styan, Esq.

Thirty-four eggs from South Africa ; presented by J. A. Bucknill, Esq.

Forty-one birds from Angoni-land ; presented by C. B. Storey, Esq.

Four birds from Uganda—types of newly described species ; presented by F. J. Jackson, Esq., C.B., C.M.G.

Two eggs of a Wood-Hoopoe from Grahamstown, Natal ; presented by P. L. Selater, Esq., PH.D., F.R.S.

Sixty birds, nests and eggs, collected in New Guinea ; presented by Capt. F. R. Barton, C.M.G.

Nineteen birds from Setubal, Portugal ; presented by Don Luiz Gonzaga do Nascimento.

Fifty birds and eggs from the Kurrum Valley ; presented by C. H. T. Whitehead, Esq.

Seven skeletons of *Colius striatus* from Gaza-land ; presented by C. F. M. Swynnerton, Esq.

Twenty-seven mounted birds, chiefly British, for the Exhibition Gallery, presented by Rowland Ward, Esq., F.Z.S.

Twelve birds from Aldabra island, including one species new to the collection; presented by R. Dupont, Esq.

One hundred and fourteen birds collected in Mashonaland; presented by Guy A. K. Marshall, Esq.

Seventy-seven birds from the Gazelle River district; collected and presented by G. Blain, Esq.

Seventy-six birds from Northern Rhodesia; collected and presented by Dr. F. O. Stoehr.

Sixty-six birds from the Gambia; collected and presented by Dr. E. Hopkinson.

One hundred and six birds from Japan; presented by R. Gordon Smith, Esq.

Twenty-five birds collected in Northern Rhodesia, including the types of two species new to science; collected by Sheffield A. Neave, Esq.; presented by the Manchester Museum.

Two hundred and eighty birds from Persia, collected by Mr. R. B. Woosnam; presented by Col. A. Bailward.

Thirty-four birds from Western Australia; collected by Mr. G. C. Shortridge; presented by W. E. Balston, Esq.

Three hundred and eighty-four birds from Japan, Saghalien, and China; presented by His Grace the Duke of Bedford, K.G.

Forty-three birds from the Malay Peninsula; presented by the Selangor State Museum.

Eight hundred and thirty-five birds from Spain; bequeathed by the late Mr. Howard Saunders.

Forty-one birds from Southern Rhodesia, collected by A. L. Sclater, Esq.; purchased.

Three hundred and five eggs from China, collected by J. D. La Touche, Esq.; purchased.

Two hundred and sixty-seven birds from New Guinea and the Aru Islands, collected by Mr. W. Goodfellow; purchased.

Two hundred and forty-eight birds from Mfumbiro, Tanganyika, and Upper Congo, collected by Mr. D. Carruthers; purchased.

One hundred and sixty-one birds from Mt. Morrison, Formosa, including types of ten new species; purchased.

Twenty-seven birds from Annam, including types of three new species, and examples of *Rheinhardtius ocellatus*, collected by Dr. Vassall; purchased.

One hundred and thirty-one birds from the Goolis Mts., Somaliland; purchased.

Thirty eggs from Tasmania, received in exchange.

One hundred and sixty-six birds, and five eggs from Northern Rhodesia, collected by Sheffield A. Neave, Esq.; presented by the British South African Company.

Nineteen specimens of species new to the collection; exchanged with the Hon. Walter Rothschild, M.P.

Forty birds from the Kain district of Khorasan and Tirhut; presented by Capt. J. W. Watson.

Reptilia.—The accessions number eight hundred and twenty-five, five hundred and sixty presented, two hundred and sixty purchased, and five received in exchange. The following are the more important:—

A Red variety of the Viper (*Vipera berus*) from Pembrokehire; presented by H. Fowler, Esq.

Sixteen lizards (*Lacerta ionica* and *Algiroides nigropunctatus*) from Corfu; purchased.

Sixteen Reptiles from Bulgaria; presented by Prof. W. T. Kowatschew.

Fourteen Reptiles from the Aden Hinterland; presented by Capt. A. C. Ingram.

Ninety-eight Reptiles from the islands of the Indian Ocean, including the types of two new species (*Hemidactylus gardineri* and *Scelotes gardineri*), collected by J. Stanley Gardiner, Esq.; presented by the Percy Sladen Trust.

Sixty-eight Reptiles from India and the types of two new Snakes *Tropidonotus baileyi* from Tibet and *Bungarus walli* from Oude; described and presented by Major F. Wall.

Twenty-nine Reptiles from Saghalien, Corea, and China, collected by Mr. M. Anderson; presented by His Grace the Duke of Bedford, K.G.

Thirty-two Reptiles from Mogador, collected by Señor Martinez de la Escalera; presented by the Madrid Museum.

Fifty-five reptiles from Algeria; presented by W. J. Harding King, Esq.

A Lizard new to the collection (*Chalcides thierryi*) from Nigeria; presented by E. W. Dix, Esq.

Seventy Reptiles from the Cameroons, including the types of three new species (*Dasypeltis macrops*, *Dipsadoboa iolepis* and *Aparallactus batesii*), collected by Mr. G. L. Bates; purchased.

Fifty-five Reptiles from Angola, collected by Dr. W. J. Ansorge; purchased.

Thirteen Reptiles from the Bahr-el-Ghazal province, including the type of a new Snake (*Simocephalus butleri*); presented by A. L. Butler, Esq.

Twelve Reptiles from the Ruwenzori district, including the type of a new Lizard (*Lygosoma meleagris*), collected by

R. B. Woosnam, Esq.; presented by the subscribers to the Ruwenzori Expedition Fund.

Ten Reptiles from Rhodesia and Portuguese East Africa, including the type of a new genus of Amphisbaenid Lizards (*Chirindia swynnertoni*); presented by C. F. M. Swynsnerton, Esq.

Eighty-six Reptiles from Natal and Zululand, including the types of three new species (*Zonurus warreni*, *Gerrhosaurus grandis*, and *Calamelaps warreni*); presented by Dr. E. Warren.

Ninety-nine Reptiles from South Africa, including the type of a new Lizard (*Monopeltis granti*), collected by Mr. C. Grant; presented by C. D. Rudd, Esq.

Five stuffed Lizards (*Anolis equestris*) from Cuba; presented by the Hon. W. Rothschild, D.Sc., M.P.

Ten Reptiles from Peru; presented by Prof. G. S. Boulger.

The type of a new Lizard (*Amphisbaena slateri*) from Peru; presented by T. Slater, Esq.

Twelve Reptiles from Peru, collected by the late G. Ockenden; purchased.

Sixty-eight Reptiles from Bolivia, including the types of two new species (*Anolis scapularis* and *Polychrus biogaster*), collected by Hon. J. Steinbach; purchased.

Fourteen poisonous Snakes from Sao Paulo, Brazil, including the type of a new species (*Lachesis itapetiningae*); presented by Dr. Vital Brazil.

A Snake new to the collection (*Philodryas nattereri*) from Brazil; presented by the R.R. Fathers of the Abbey of Maudsons.

Eleven Reptiles from Central Australia; purchased.

Two Lizards (*Lygosoma suteri* and *L. homalonotum*) new to the collection, from New Zealand; presented by Henry Suter, Esq.

Batrachia.—The accessions number six hundred and fifty-eight, three hundred and seven presented, three hundred and forty-three purchased, and eight received in exchange. The more important are :—

Eighteen Batrachians from Corfu; purchased.

Thirteen Batrachians from Bulgaria; presented by Prof. W. T. Kowatscheff.

Sixty Batrachians from the islands of the Indian Ocean, including the types of a new Cæcilian (*Praslinia cooperi*) and a new Frog (*Nesomantis thomasetti*), collected by J. Stanley Gardiner, Esq.; presented by the Percy Sladen Trust.

Forty Batrachians from Yunnan, including the type of a new Frog (*Calluella yunnanensis*), collected by Mr. J. Graham; purchased.

Thirty-three Batrachians from Saghalien, Corea, and China, collected by Mr. Anderson; presented by His Grace the Duke of Bedford, K.G.

Seventeen Batrachians from Lake Victoria, collected by Mr. Simon; purchased.

Ninety-nine Batrachians from the Cameroons, collected by Mr. G. L. Bates; purchased.

Eighty-four Batrachians from Angola, including the type of a new Frog (*Rana cryptotis*), collected by Dr. W. J. Ansorge; purchased.

Eight Batrachians from Rhodesia and Portuguese East Africa, including the type of a new Toad (*Bufo anotis*); presented by C. F. M. Swynnerton, Esq.

The type of a new Toad (*Breviceps macraps*) from Namaqualand; presented by L. Péringuey, Esq.

One hundred and twelve Batrachians from S. Africa, including the type of a new Frog (*Rana ruddi*), collected by C. Grant; presented by C. D. Rudd, Esq.

Twenty-three Batrachians from Costa Rica, collected by C. F. Underwood; purchased.

The type of a remarkable new tree-Frog (*Hyla resinifictrix*) from Brazil; presented by Dr. E. A. Goeldi.

Twenty-six Batrachians from Peru, collected by the late G. Ockenden; purchased.

Twenty-four Batrachians from Chile; presented by R. Morton Middleton, Esq.

A Tree-frog new to the collection (*Hyla gilleni*) from the Northern Territory, South Australia; presented by H. J. Hillier, Esq.

Pisces.—The accessions number five thousand two hundred and eighteen, four thousand eight hundred and forty-eight by presentation, three hundred and eighteen by purchase, and fifty-two received in exchange. The following are the more important:—

Three Charr (*Salmo alpinus*) from the Loch of Gairsta, Tingwall, Shetlands; presented by J. S. Tulloch, Esq.

A Charr from Loch Marie; presented by H. M. Warrand, Esq.

Five Charr from Loch Grannoch; presented by G. R. Murray, Esq.

Five Charr (*Salmo willughbii*) from Windermere; presented by Messrs. G. Gatey & Son.

Four Charr (*Salmo willughbii*) from Coniston Lake; presented by J. W. Barratt, Esq.

A Charr (*Salmo willughbii*) from Haweswater; presented by the Earl of Lonsdale.

A Land-locked Salmon (*Salmo salar*) from Lough Mask; presented by Alick Duncan, Esq.

Five Pollan (*Coregonus pollan*) from Lough Ree; purchased.

Seven Pollan (*Congonius pollan*) and four hybrid Bream (*Abramis brama* × *Leuciscus erythrophthalmus*) from Lough Erne; presented by Major H. Trevelyan.

Five hybrid Carp (*Cyprinus kollarii*) and two Crucian Carp (*Carassius vulgaris*); presented by the Rt. Hon. Lord Walsingham, F.R.S.

A large Flounder (*Pleuronectes flesus*) from Leigh-on-Sea; presented by A. C. Palmer, Esq.

A large Gurnard (*Trigla hirundo*) from the Isle of Man; presented by J. Pickup, Esq.

A very large Whiting (*Gadus merlangus*); presented by Edgar Hyde, Esq.

A specimen of the scribbled variety of the Mackerel (*Scomber scombrus*) from Cornwall; presented by R. L. Crawshay, Esq.

Thirty-nine Fishes from deep water off the Irish coast, including the types of three new species described by Messrs. Holt and Byrne (*Lyconus brevipinnis*, *Pteridium allani*, and *Melamphaes eurylepis*); presented by the Dept. of Agriculture and Technical Instruction for Ireland, Dublin.

Two Pipe-fishes (*Syngnathus dumerili*) from Belgium; presented by Professor Gilson.

Twenty-nine deep-sea Fishes from the Bay of Biscay, including examples of *Gonostoma bathyphilum*, new to the collection; presented by Dr. G. Herbert Fowler.

Forty-eight Fishes from deep water in the Atlantic and Mediterranean, including a fine example of the rare *Himantolophus reinhardti*; presented by Dr. R. N. Wolfenden.

A large specimen of a rare fish (*Umbrina canariensis*), new to the collection, from the Atlantic; presented by J. Wrench Powse, Esq.

Nine Fishes from various localities, including an example of *Chrysophrys cæruleosticta* from Madeira, a species new to the collection; presented by the Hon. Walter Rothschild, D.S.C., M.P.

The types of two new Cyprinid Fishes (*Diptychus annandalii* and *Danio browni*) from Nepal and the Shan States respectively; presented by the Indian Museum, Calcutta.

Forty-three Fishes from Yunnan, including the types of two new species (*Schizothorax taliensis* and *Silurus grahami*), collected by Mr. J. Graham; purchased.

The types of three new fresh-water fishes from China (*Gymnostomus kreyenbergii*, *Gobio wolterstorffi*, and *Glyptosternum sinense*), collected by Dr. Kreyenberg; purchased.

Fifty fresh-water fishes from Corea, including the types of seven new species (*Leucogobio strigatus*, *Acanthogobio longirostris*, *Acanthorhodeus gracilis*, *Silurus bedfordi*, *Liobagrus andersonii*, *Gobius bedfordi*, and *Tridentiger coreanus*), collected by Mr. Anderson; presented by His Grace the Duke of Bedford, K.G.

Seventy-eight Fishes from Lake Biwa, Japan, including the types of a new cat-fish (*Liobagrus sugubii*); presented by H.E. the Governor of Otsu.

Three hundred and nineteen Fishes from Japan, including the type of a new species (*Achilognathus smithii*) and examples of several species new to the collection; presented by R. Gordon Smith, Esq.

Two sharks (*Mitsukurina owstoni* and *Notidanus deani*) from Japan; purchased.

Forty-six Fishes from the Philippines; presented by the U.S. National Museum.

Eighteen Fishes from Algiers; presented by R. Gurney, Esq.

Twenty-seven Fishes from the Shari River, collected by the late Capt. G. B. Gosling; presented by Capt. Boyd-Alexander.

The types of four species of fresh-water fishes, *Nannocharax parvus* from the Ogowe, *Polypterus retropinnis* and *Mormyrops boulengeri* from the Congo, and *Bedotia geayi* from Madagascar; received from the Paris Museum.

Seventy-seven Fishes from the Cameroons, including the types of two new species (*Synodontis batesii* and *Eleotris kribensis*), collected by Mr. G. L. Bates; purchased.

Thirty-five Fishes from the Benue River; purchased.

Ninety-four Fishes from Angola, including the types of two new species (*Labeo ansorgii* and *Paratilapia angusticeps*), collected by Dr. W. J. Ansorge; purchased.

An important series of fishes from the Nile, obtained by Mr. Leonard Loat; presented by His Excellency the Minister of Education, Government of Egypt.

The fishes collected by Mr. Loat during the years 1899-1902 numbered 11,068 specimens, probably the largest collection of fishes from one river ever brought together; of these, a first set, comprising 3,776 specimens, and including the types of 30 new species, has been retained for the British Museum, whilst a second set has been sent to the School of Medicine at Cairo, and other sets to various scientific institutions as requested by the Egyptian Government, by whom the necessary funds for Mr. Loat's work were provided.

The large series of specimens collected and excellently preserved by Mr. Loat, accompanied by his valuable notes and coloured sketches, has materially increased our knowledge of the Fishes of the Nile, which is summarised in Mr. G. A. Boulenger's illustrated work "The Fishes of the Nile," chiefly based on this collection. The work was published for the Egyptian Government in 1907.

Eighteen Fishes from Lake Victoria, collected by Mr. Simon; purchased.

Twenty-four Fishes from the Ruwenzori District, including the types of two new species (*Petersius woosnami* and *Pellonula obtusirostris*), collected by R. B. Woosnam, Esq.; presented by the subscribers to the Ruwenzori Expedition Fund.

The types of *Petersius tangensis* and *Fundulus palmquisti* from German E. Africa; presented by Prof. E. Lönnberg.

The types of three Mormysid Fishes (*Petrocephalus stuhlmanni*, *Marcusenius castor*, and *Mormyrus tapirus*) from German Africa; received from the Berlin Museum.

Fourteen Fishes from Mombasa; presented by F. J. Jackson, Esq.

Seven Fishes from Rhodesia and Portuguese E. Africa, including the type of a new species (*Tilapia swynnertonii*); presented by C. F. M. Swynnerton, Esq.

Twenty-four Fishes from Lake Bangwelu; presented by F. H. Melland, Esq.

The types of a new Cat-fish (*Amphilius hargerii*) from British Central Africa; presented by R. L. Harger, Esq.

The types of two new fishes (*Haplochilus myaposae* and *Neobola brevianalis*) from Zululand; presented by Dr. E. Warren.

Forty-seven Fishes from S.E. Africa, including the types of five new Cyprinids (*Barbus polylepis*, *B. brucei*, *B. sector*, *B. elephantis*, and *Varicorhinus brucei*); presented by Capt. G. E. Bruce.

Thirty-seven Fishes from South Africa, including the types of a new species (*Labeo ruddi*), collected by C. Grant; presented by C. D. Rudd, Esq.

Three Fishes (*Paratilapia carlottae* and *Scopelopsis multipunctata*) new to the collection, from the Zambesi and the Agulhas Bank respectively; presented by Dr. J. D. F. Gilchrist.

Nine large stuffed fishes from Florida, prepared and painted by a special taxidermist; presented by F. Cushny, Esq.

Co-types of *Tetragonopterus cobanensis* and *T. belizianus* from Central America; received from the Paris Museum.

Twenty-one fresh-water Fishes from Costa Rica, including the types of three new species (*Rhamdia heteracantha*, *R. underwoodi* and *Rivulus flabellicauda*), collected by C. F. Underwood; purchased.

Fifty fresh-water Fishes from Costa Rica, including the types of three new species (*Rhamdia rogersi*, *Gambusia annectens*, *G. tenabensis*; presented by F. D. Godman, Esq., F.R.S.

Twenty-five fresh-water Fishes from Trinidad, including examples of *Evosthodus breviceps*, new to the collection; presented by L. Guppy, Esq., Junr.

Twenty-five Fishes from Sao Paulo, Brazil, including the types of five new Loricariidae (*Plecostomus albomaculatus*, *P. margaritifer*, *P. iheringii*, *P. strigaticeps* and *Otocinclus paulinus*); received from the Sao Paulo Museum.

Co-types of three Characinid Fishes from Paraguay (*Tetragonopterus kennedyi*, *T. anisitsi* and *T. heterorhabdus*); received from Prof. C. H. Eigenmann.

The types of a new Characinid Fish (*Mimagoniates barberi*) from Paraguay; presented by Dr. A. Barbero.

The types of two new Characinid Fishes from Argentina (*Pogonocharax rehi* and *Phoxinopsis typica*); presented by Dr. L. Reh.

Co-types of three new deep-sea Fishes (*Coelorhynchus innotabilis*, *Macrurus nigromaculatus*, and *Hoplichthys haswelli*), from off the coast of New South Wales; presented by Prof. W. A. Haswell, F.R.S.

Seventeen fresh-water Fishes from the Aru Islands, including examples of two species new to the collection (*Arius leptaspis* and *Rhombatractus novae-guineæ*), collected by Mr. A. E. Pratt; purchased.

Mollusca.—Five thousand four hundred and sixty-five specimens were added to the collection, of which the following are the most important:—

Eight hundred and sixty-four shells from the collection of the late Sylvanus Hanley, including one hundred and twenty-three actual types, and about seven hundred specimens figured in various Works on Mollusca; presented by Henry Harvey, Esq.

One hundred and forty-eight shells from various localities, including the types of ninety-one species, mostly described by Mr. Da Costa; presented by the late S. I. Da Costa, Esq.

Twelve hundred and nineteen land shells from the Canary Islands; presented by Lieut.-Colonel G. S. Parry.

Two hundred and twenty-one land and marine shells from New Zealand, mostly new to the collection, and named by Mr. H. Suter; purchased.

Three hundred and eleven shells from various localities, including the types of thirty-five species from the Gulf of Oman, described by J. C. Melvill, the type of fourteen terrestrial species from Nias Island and the Philippine Islands, and many other species new to the collection; purchased.

Two hundred and ninety-one shells from many localities, including co-types of thirty-eight species, the rest of the specimens representing species new to the collection; purchased.

Seventy-seven shells from Java and other localities, including the types of fourteen species from South Africa; presented by J. H. Ponsonby, Esq.

Thirty-one pearls from *Unio*, *Mytilus*, *Pecten*, and *Haliotis*, a very remarkable "Octopus" with branching arms, and one hundred and forty-five marine and freshwater shells, all from Japan; presented by R. Gordon Smith, Esq.

One hundred and sixteen shells from New Caledonia and other localities, including the types of eleven new species; purchased.

Three hundred and ninety-nine marine shells from the Andaman Islands, being a selection from a very large collection made by the late Rev. J. L. T. Warneford whilst chaplain to the forces in the Islands; purchased.

Three hundred and fifteen marine shells, named by Mr. C. Hedley, of the Australian Museum, Sydney, being a first set of the duplicates of the "Miner" and "Woy-Woy" Expeditions off New South Wales; presented by Prof. W. A. Haswell.

One hundred and sixty-nine marine shells from Japan, including many species recently described; purchased.

One hundred and two shells from Lakes Tanganyika and Mweru, including five new species; collected and presented by R. L. Harger, Esq.

Fifty-six shells from various localities, including the types of thirty-eight species described by J. de Grateloup in the year 1840; purchased.

Sixty-six land and freshwater shells from Central Africa, nearly all new to the collection; presented by the subscribers to the Ruwenzori Expedition.

One hundred and three shells from the Capricorn coral reefs off Queensland, including co-types of thirty-one species described by Mr. Hedley; collected and presented by C. Hedley, Esq.

Crustacea.—The additions number two thousand five hundred and fifty-four; of this large number seven hundred and forty-nine are specimens of *Decapoda*, *Cumacea*, *Amphipoda*, *Ostracoda*, *Cirripectida*, *Leptostraca*, and

Pycnogonida from the "Discovery" collections, and include the types of the numerous new species described in the reports already published; of the remaining additions the following are the most important:—

A specimen of *Dromidia excavata* from Australia; presented by Prof. J. P. Hill.

Forty-four specimens of Freshwater Prawns, and seven specimens of other Crustacea, including co-types of twelve recently described species; received in exchange from the Paris Museum.

Twelve specimens of Arctic Crustacea; presented by Prof. D'Arcy W. Thompson, C.B.

Thirty-six specimens of Crustacea, including types of two recently described species; presented by A. O. Walker, Esq.

Eight river-crabs from Northern Australia; presented by Sir William Ingram, Bart, and the Hon. John Forrest.

Thirty-one Crustacea from Trivandrum; presented by the Trivandrum Museum.

Two Co-types of Cumacea from the German South Polar Expedition; presented by Dr. C. Zimmer.

Twenty-nine specimens of Decapoda from the "Research" Expedition; presented by Dr. G. H. Fowler.

Twenty-eight Crustacea from South Africa; purchase.

Eighty specimens of Crustacea from Japan; presented by R. Gordon Smith, Esq.

Six River-Crabs from Yunnan-Fu; purchased.

Thirty Crustacea from New Zealand, including the types of a new species; presented by Miss Margaret Benson, D.Sc.

Ten terrestrial Isopoda from Morocco; presented by the Hon. Walter Rothschild, M.P.

Nine Crustacea from Ceylon; presented by Dr. A. Willey.

Three River-Crabs from East Africa; presented by the Earl of Crawford.

Thirteen Branchiopoda from India, including co-types of three species, and four Crustacea from Norfolk; presented by R. Gurney, Esq.

Twelve Crabs from Madagascar and Peru; purchased.

Forty-nine freshwater Decapoda from Mexico and Guatemala; presented by F. D. Godman, Esq., F.R.S.

Three hundred and ninety-seven Brachyura, including types of twenty-four species and varieties, from Ceylon; presented by Prof. W. A. Herdman, F.R.S.

Six Crayfish from Belgium; presented by Prof. G. Gilson.

Fifty-two terrestrial Isopoda from Scotland, including co-types of two species; presented by Alexander Patience Esq.

Two River-Crabs from the Chirinda forest; presented by C. F. M. Swynnerton, Esq.

Two River-Crabs from the Blue Nile; presented by Capt. Stanley S. Flower.

Six freshwater Decapoda from the Cameroons; purchased.

Four deep-sea Prawns from Australia; presented by Prof. W. A. Haswell.

Fifty terrestrial Isopoda from Ireland; presented by R. Pack Beresford, Esq.

Seventeen Crustacea taken from deep-sea cables; presented by Dr. F. Wood Jones.

Thirty Crustacea from India, including co-types of eight recently described species; presented by the Trustees of the Indian Museum, Calcutta.

A Crab with malformed leg; presented by F. Hyde Moberly, Esq.

Two Lobsters; presented by the Directors of Harrod's Stores, Ltd.

A series of Hermit-Crabs illustrating the effects of parasitism; presented by F. A. Potts, Esq.

A large Crayfish from Western Australia; presented by W. E. Balston, Esq.

Eighty-four specimens of Cumacea including co-types of nineteen new species; presented by the Copenhagen Museum of Zoology.

Nine Cumacea, including type of a new species; presented by G. M. Thomson, Esq.

Two River-Prawns from Trinidad; presented by T. J. Potter, Esq.

Fifty-seven Prawns from the Thames Estuary, including one species new to the collection; presented by Dr. Murie.

Ten subterranean Amphipoda from Ireland; presented by W. F. de Vismes Kane, Esq.

Four specimens of *Apus cancriformis* from Scotland; presented by F. Balfour Browne, Esq.

Twenty-one terrestrial Isopoda from Jamaica; presented by the Hon. W. Fawcett.

Three fresh-water Crustacea from Central Australia; presented by H. J. Hillier, Esq.

One hundred and seventeen terrestrial Isopoda from Europe; purchased.

Two hundred and twenty-three Arctic Crustacea, mostly of species new to the collection; received in exchange from the Museum of University College, Dundee.

Thirteen Crustacea from Japan; presented by His Grace the Duke of Bedford, K.G.

Five Prawns from Lake Albert; presented by Dr. R. T. Leiper.

One hundred and fifty specimens of Schizopoda (species new to the collection); presented by the Department of Agriculture for Ireland (Fisheries branch).

Arachnida and Myriopoda.—The accessions number three thousand two hundred and sixty, one thousand seven hundred and ninety of which were presented and one thousand four hundred and seventy purchased. The most important are:—

Seven hundred and fifty-two Arachnida and Myriopoda from Uganda and Victoria Nyanza; purchased.

Four hundred and six Ticks from Transcaucasia; presented by Dr. Dschunkowsky.

Three hundred and forty-two Ticks from Mexico; presented by the Natural History Branch of the Mexican Geographical Commission.

Two hundred and fifty-three European Myriopods, including co-types of seventeen forms; purchased.

Two hundred and twenty-five Ticks, taken on various animals in Mauritius; presented by Monsieur D'Emmery de Charmoy.

One hundred and forty Ticks from British Central Africa; presented by Dr. J. E. S. Old.

One hundred and eight Arachnida and Myriopoda, including the typical specimen of a new species of Spider (*Cladomela ornata*), from Ruwenzori; presented by the subscribers to the Ruwenzori Expedition Fund.

Sixty-eight Pseudoscorpions and Acari from various localities, including co-types of nine species; purchased.

Fifty-nine Arachnida and Myriopoda from the Transvaal and the Orange River Colony; purchased.

Fifty-six Arachnida and Myriopoda from Morocco; purchased.

Fifty Scorpions and Solifugæ, including two species new to the collection, from the Fayum; presented by C. L. Boulenger, Esq.

Forty-three Arachnida and Myriopoda including the type of a new Spider (*Selenocosmia stalkerii*) from Western and Northern Australia; presented by Sir William Ingram, Bart., and the Hon. John Forrest.

Forty-one Arachnida from Madagascar, including the types of three species; purchased.

Twenty-three Arachnida and Myriopoda, including a new species of Spider, from S.E. Rhodesia and Portuguese Gazaland; presented by C. F. M. Swynnerton, Esq.

Eleven Arachnida and Myriopoda from the Argentine Republic; presented by Sir Henry Howarth.

Insecta.—Thirty-seven thousand six hundred specimens have been added to this part of the collection during the year, composed as follows:—

Coleoptera - - - - -	10,348
Lepidoptera - - - - -	11,873
Hymenoptera - - - - -	4,939
Diptera - - - - -	5,121
Rhynchota - - - - -	2,510
Orthoptera - - - - -	948
Neuroptera - - - - -	313
Collembola - - - - -	853
Anatomical slides, nests, eggs, &c. - - -	695
Total - - - - -	<u>37,600</u>

The following are some of the most important of these accessions:—

(From various Localities.)

Nine hundred and eighty-seven Holartic and Oriental *Lycænida*, one hundred and fifty-five Neotropical *Nymphalida*, two hundred and forty-four Lepidoptera from the Congo, eight hundred and eighty-eight Central American *Anthrribida*, two thousand one hundred and fifty-five North and Central American Coleoptera, and one hundred and seventy North American *Chrysidida*; presented by F. D. Godman, Esq., D.C.L., F.R.S.

Six hundred and sixty-four *Lycænida*, and one thousand four hundred and thirteen *Hesperida* from the Holartic and Oriental Regions; presented by H. J. Elwes, Esq., F.R.S.

One thousand eight hundred and ninety-three Hymenoptera, and seventy-five Coleoptera, chiefly from Australia, and including a very large number of types; presented by R. E. Turner, Esq.

Six hundred and seventy-five Mosquitoes, five hundred and twelve Microscopical preparations of wings, etc., and one hundred and fifty-six photographic negatives of wings, etc., the material on which Mr. F. V. Theobald wrote the 4th volume of the "Monograph of *Culicida*."

One hundred and ten Lepidoptera, chiefly types of Moths; purchased.

Eight hundred and fifty-three named Collembola; purchased.

Sixteen Butterflies, two hundred and seventy-nine Moths, four larvæ and four pupæ, eight Coleoptera, twenty-five Hymenoptera, five Neuroptera, and sixty Diptera, from Jamaica, Canary Islands, and Algeria, and twelve prepared larvæ of British Lepidoptera; presented by the Right Hon. Lord Walsingham.

(From Europe.)

Seven hundred parasitic Hymenoptera from the British Isles, chiefly Flexiliventes; presented by G. C. Bignell, Esq.

One thousand and seventy-four Diptera from Great Britain; presented by Lt.-Col. Yerbury.

One hundred and eight Diptera from Bulgaria; presented by Sir G. W. Buchanan, K.C.V.O., C.B.

Two hundred larvæ of European Coleoptera from Germany, etc.; presented by Dr. K. Jordan.

(From Africa.)

Ninety Hymenoptera, eight Neuroptera, one hundred and thirty Rhynchota, six hundred and thirty-nine Coleoptera, eighty Moths and three larvæ, one cocoon of *Helicopris*, fifteen Diptera, and one hundred and ninety-three Orthoptera from Mashonaland and Gazaland; presented by G. A. K. Marshall, Esq.

Two hundred and six Moths from the Transvaal; presented by A. J. T. James, Esq.

Two hundred and seventy-eight Coleoptera, fifty-two Hemiptera, two Hymenoptera, and one Orthopteron from Beira, Portuguese East Africa; presented by C. D. Rudd, Esq.

Fifty-nine Coleoptera, sixty-six Orthoptera, forty-eight Hymenoptera, thirty Neuroptera, and one hundred and forty-five Moths from Boksburg, Transvaal; presented by C. H. Pead, Esq.

(From the Oriental Region.)

One hundred and six Coleoptera, chiefly types, two *Formicidæ*, and one Hemipteron from India; presented by H. E. Andrewes, Esq.

Three hundred and seventy-nine Coleoptera, twenty-two Hymenoptera, five Orthoptera, and twenty-four Rhynchota from the Malay Peninsula; presented by H. C. Robinson, Esq.

Twelve Butterflies, one hundred and eighty-four Moths, fifty-six Coleoptera, eleven Hymenoptera, four Diptera, seventeen Rhynchota, four Orthoptera, and four Neuroptera, from Singapore, Johore, etc.; presented by H. N. Ridley, Esq.

One thousand seven hundred and seven *Pieridæ* from India and the Malay States, part of the collection of the late Dr. F. Moore; purchased.

Sixty-eight Coleoptera, one hundred and fifty-eight Hymenoptera, one hundred and eight Butterflies, fifty-six Moths, twenty Neuroptera, twenty-four Rhynchota, fifty-eight Orthoptera, and one hundred and thirty-six Diptera

from Seychelles Islands, Aldabra I., etc.; presented by P. R. Dupont, Esq.

Two thousand one hundred and three Coleoptera, three hundred and eighty-seven Rhynchota, two hundred and ninety-one Diptera, five hundred and ten Hymenoptera, eighty-three Neuroptera, thirty-one Orthoptera, and nineteen Moths from Tientsin and Shan-Hai-Kwan, N. China; presented by F. M. Thomson, Esq.

One hundred and forty-five Coleoptera, thirty-nine Hemiptera, four Hymenoptera, and three Orthoptera from Sanga-Sanga, E. Borneo; presented by Harold D. Jensen, Esq.

(From Australia, New Zealand, etc.)

One thousand and fifty Rhynchota from Queensland; purchased.

Forty-five Butterflies, ninety-three Moths, nine hundred and fifty Coleoptera, one hundred and ninety Rhynchota, one hundred and thirty-six Hymenoptera, one hundred Diptera, two hundred and five Orthoptera, and thirty-three Neuroptera from North Australia; and two hundred and thirty-six Coleoptera and three hundred and thirty-eight Butterflies from the Aru Islands; presented by Sir W. Ingram, Bt.

One Butterfly, eighty-five Moths, twenty-six Neuroptera, fifteen Orthoptera, thirty-four Hymenoptera, twenty-five Diptera, and thirty-three Rhynchota from Queensland; purchased.

Five hundred and one *Tineidæ* from Australia and New Zealand; presented by the Hon. Walter Rothschild, M.P.

(From America.)

Thirty-two Lepidoptera, sixty-five Orthoptera, fifty-five Neuroptera, fifty-four Hymenoptera, ninety-four Rhynchota, and twenty-five Diptera from Parana, Brazil; presented by E. Dunkinfield Jones, Esq.

One hundred and twenty-eight Moths and forty Butterflies from Canada; presented by Dr. J. Fletcher.

Two hundred and thirty-one Homoptera from St. Vincent; presented by the West Indian Exploration Committee.

Seventy Moths from Peru, etc.; presented by Mons. P. Dognin.

Three hundred and twenty Moths from Canada; presented by F. H. Wolley Dod, Esq.

Prototracheata.—The additions number twenty-six, a comparatively large number for this small group; five of these were obtained by exchange with the Museum of the Jardin des Plantes; all the specimens have had the advantage of being determined by Prof. Bouvier.

Among the specimens received, attention may be called to the rare *Peripatus thollowi*, *biollegi*, and *corradui*, described by Prof. Bouvier.

The additions to this small but very interesting group keep the collection well in advance of that of any other Museum.

Echinoderma.—The additions include the last batch of the "Discovery" specimens, of which altogether nearly two hundred specimens have been acquired.

The great interest of the Antarctic Echinoderma lies in the valuable evidence they afford as to the extreme variability of this group; good series of *Cycethra verrucosa*, of *Ophiosteira antarctica*, and others have been obtained.

Of the Echinoderma obtained by exchange from the Mus. Comp. Zool., Cambridge, Mass., U.S.A., mention should be made of *Aporocidaris milleri*, *Synapta vivipara* from Jamaica, *Rosaster alexandri*, and *Ophiostigma isacanthum*.

Echinodiscus auritus from Lhanban, E. Africa, was presented by Mr. W. T. Sneyd.

Among the species selected from the Stanley Gardiner collection mention may be made of the rare *Brisingaster robillardi*, *Echinolampas oviformis*, the little known *Ophioteresis elegans*, and the rare *Neoplax ophiodes*; there is also an interesting example of an immature *Gorgonocephalus verrucosus*, and a good supply of the early stages of several Ophiuroids.

Vermes.—The most important is the collection made by Prof. Benham, F.R.S., in New Zealand, and determined by Prof. Ehlers, of Göttingen, who has published a full report on it.

Mention may also be made of a rare round worm (*Strongylus ostertagi*) from a collection presented by Mr. Godman, F.R.S., and of nine earthworms collected at a height of from 6,000 to 9,000 feet on the slopes of Ruwenzori.

Anthozoa.—With the exception of the fourteen specimens collected by the "Discovery," there was no special object of interest in the small addition made to the collection of these animals.

Polyzoa, Hydrozoa, Porifera.—A collection of Indian fresh-water Sponges, Hydrozoa, and Polyzoa (including co-types), received in exchange, per Dr. N. Annandale, from the Indian Museum, Calcutta.

A set of fragments removed from the type specimens of Hexactinellida from the Indian Ocean, described by Prof. F. E. Schulze.

A collection of twenty-three specimens of fresh-water Sponges and Polyzoa collected by R. Kirkpatrick in Bombay, Agra, Calcutta, and Sikhim.

The Sponges collected by the "Discovery" (National Antarctic Expedition), comprising two hundred and fifty bottles of specimens, from which 1,539 preparations were made, and belonging to the following groups:—

	Bottles of Specimens.	Preparations.
Calcarea - -	54	99
Hexactinellida - -	36	210
Tetractinellida - -	42	320
Monaxonellida - -	118	910
	<hr/> 250	<hr/> 1,539

The Hydroida, comprising forty-seven specimens, obtained by the "Discovery," and described by Prof. S. J. Hickson, F.R.S., and F. H. Gravely.

A magnificent series of forty-two specimens of *Cephalodiscus*, and including types of three new species, partly collected off S. Africa by Dr. J. D. F. Gilchrist, and partly obtained by the "Discovery" from the Antarctic, was added to the collection. The S. African species (*C. gilchristi*) was described by Dr. W. G. Ridewood; one of the Antarctic species (*C. nigrescens*) by Prof. Sir E. Ray Lankester, and the other (*C. hodgsoni*) by Dr. Ridewood.

The type specimens, forty-two in number, of the new species of Tunicata obtained from the region of the Ceylon Pearl Fisheries; described and presented by Prof. W. A. Herdman, F.R.S.

A collection of thirty-eight bottles of specimens of Tunicata from Japan and the Kurile Islands; purchased.

VI.—*Economic Zoology.*

The work in connection with this Section has had reference chiefly to insects, as in former years. The interest taken in the spread of disease by insect agency remains, and numerous biting flies have been sent for determination and advice. Many insects injurious in other ways have also been sent to be named.

The following are some of the subjects of inquiry:—

- (1) Larvæ of flies working under the skin of human beings in the Transvaal and causing sores. The specimens sent were *Cordylobia anthropophaga*.
- (2) Inquiry respecting the life-history of Warble Flies, which the sender believed to have at least two broods in the year.

- (3) Inquiry as to the identity of certain flies from septic tank and manure at Meerut, which might possibly disseminate enteric fever.
- (4) Inquiry as to the life-history of the common House-fly, a possible disease-carrier, and asking advice as to what steps should be taken to diminish their number.
- (5) A similar inquiry from another part of England.
- (6) Inquiry as to gnats (*Theobaldia annulata*) very troublesome at St. Albans.
- (7) Names asked for two beetles (*Alaus speciosus* and *Niphon sp.*) which injure rubber plants (*Hever*) in Ceylon.
- (8) Caterpillar of a moth eating the roots of Lily of the Valley. (*Hepialus*.)
- (9) Name wanted for a weevil injurious to oranges in New Zealand. (*Cylas turcipennis*.)
- (10) Dipterous larvæ in human alimentary canal, Hampshire. These were found to be *Eristalis tenax*.
- (11) Insects injuring cotton in Mosambique. These were *Diparopsis castanea*, *Ephestia sp.*, *Chlorida obsoleta*, *Cosmophila erosa*.
- (12) Four inquiries respecting House Mites.
- (13) Bees disfiguring lawn—*Andrena fulva*.
- (14) Small beetles in Indian corn from Accra. *Aræocerus coffea*.
- (15) Small beetles destroying furniture. *Anobium domesticum*.
- (16) Small beetles destroying chair. *Lyctus canaliculatus*.
- (17) Two inquiries respecting minute wingless insects in houses in the City and at Clapham. *Psocidæ* (Paste Mites).
- (18) Small beetles gnawing away the metal edges in organ pipes. *Niptus hololeucus*.

VII.—Visitors and Students.

The number of visits paid to the three sections of the Department by Students and other persons requiring assistance or information amounted to 11,043. In the 10 previous years the numbers were:—

10,813	in the year	1906.
11,811	„	1905.
11,824	„	1904.
11,627	„	1903.
10,633	„	1902.
12,813	„	1901.
11,923	„	1900.
10,728	„	1899.
10,830	„	1898.
9,708	„	1897.

E. A. Smith.

DEPARTMENT OF GEOLOGY.

I.—*Arrangement and Conservation.*

Mammalia (Galleries 1 and 2).—The drawers of unexhibited Palæolithic implements in table-case 1 have been rearranged for more convenient reference.

The unexhibited remains of *Ursidæ* have been arranged and labelled in the drawers of table-case 3.

The Creodonta, exhibited in table-case 3A, have been rearranged to admit important recent acquisitions, which have been tableted and provided with printed labels.

Plaster casts of skulls of *Okapia johnstoni* have been mounted and placed in pier-case 14, for comparison with the skull of *Samotherium*.

The top of a skull of *Arsinoitherium zitteli*, from the Upper Eocene of the Fayum, has been mounted on the wall adjoining wall-case 22.

Case V., containing the *Sirenia*, has been repainted and rearranged for the addition of a new skeleton of *Halitherium schinzi*, which has been mounted on ironwork. New labels have been prepared and printed both for this case and for the smaller remains of *Sirenia* rearranged in pier-case 29.

The fore and hind limbs of *Diprotodon australis* have been incorporated in a complete restoration of the skeleton of this extinct Marsupial, which has been mounted and exhibited on a temporary stand in the Great Hall, before being placed in wall-case 27.

The earliest known drawing of a skeleton of *Megatherium*, by a Spanish artist, has been framed and placed on the wall near Case Z.

Remains of a new pigmy elephant (*Elephas creticus*) discovered by Miss D. M. A. Bate in the caverns of Crete, have been tableted, labelled, and exhibited in table-case 17A.

A large mandible of *Tetrabelodon* from the Loup Fork Formation of Kansas, U.S.A., has been mounted and exhibited in pier-case 42.

Wall-case 43 has been completely rearranged and repainted, to incorporate recent acquisitions of primitive Proboscidea. The naming of the remains of *Dinotherium* has been revised, and new printed labels have been prepared. A new descriptive label has been placed on the adjoining wall.

Teeth and jaws of *Moeritherium* and *Palæomastodon* have been mounted and labelled, and added to the exhibition of Proboscidean molars in table-case 24.

An old lithograph of the skeleton of the American Mastodon, as originally mounted by Albert Koch, has been framed and placed on the wall near Stand B.

Number of specimens of Mammalia registered, 601.

Reptilia and Amphibia (Galleries 3, 4, 5, 11).—New cabinets with more commodious drawers have been fixed beneath the table-cases 30 to 35, and the unexhibited remains of Anomodont Reptiles and Labyrinthodontia have been transferred to them.

The smaller remains of *Pteranodon* have been rearranged and labelled in table-case D, to admit a new skull and mandible from the Chalk of Kansas, U.S.A.

A plaster model of the skeleton of *Triceratops*, from the Upper Cretaceous of Wyoming, U.S.A., has been mounted on a stand in the Gallery of Reptiles, Department of Zoology.

Two large slabs of footprints from the Keuper Sandstone of Storeton, Cheshire, have been framed and mounted in wall-case 11, Gallery 11.

New Labyrinthodont remains, including a mandible of *Labyrinthodon leptognathus* from the Keuper of Leamington, have been tableted and labelled and added to table-case V.

Two new pier-cases have been erected for the unexhibited remains of *Ophthalmosaurus* from the Oxford Clay (Leeds Collection) in the S.E. Basement Corridor.

Number of specimens of Reptilia and Amphibia registered, 153.

Pisces (Gallery 6).—The collection of *Macropoma* in wall-case 7 has been re-arranged, with new fittings, to accommodate the skull of *Mawsonia gigas*, which has been framed and labelled.

The Cretaceous Dercetidæ in table-case 27 and the English Chalk Fishes in table-cases 25, 26, have been retabled with printed labels. The naming of the specimens of Chirocentridæ, Plethodontidæ, and Elopidae has been revised.

Some fragile specimens of *Hoplopteryx lewesiensis* from the English Chalk, in wall-case 16, have been fixed in mahogany frames.

The recent acquisitions from the Caroline Birley Bequest have been labelled and incorporated.

Number of specimens of Pisces registered, 389.

Mollusca (Galleries 7 and 8).—During the preparation of the Guide Book, a large part of the exhibited collections of Cephalopoda in Gallery 7 has been rearranged, the changes having affected wall-cases 1, 7, 8, and 14, and nearly all the table-cases. The main result is that, apart from the general introductory series in table-case 1, the exhibited collection is

now arranged in zoological sequence under the three orders: Nautiloidea (table-cases 2 and 3, wall-cases 1 and 2 on the west side, and 13 and 14 facing them, on the east), Ammonoidea (table-cases 4-15, wall-cases 3-6 on the west, 9-12 on the east), Belemnoida (table-case 16, wall-cases 7 and 8). Within each order the specimens are now grouped under the chief geological periods in ascending sequence. In the course of the work many minor improvements of labelling and changes in the exhibited specimens have also been introduced.

The Conularida, or so-called Pteropods of Palæozoic age, have been removed from table-case 16, Gallery 7, and re-arranged in table-case A7 at the north end of Gallery 8.

A series of fossil shells showing colour-markings, has been tableted and labelled for exhibition in wall-case 3, Gallery 8.

A piece of fossil wood from the London Clay, bored by *Teredo antenata*, has been mounted in a special case in the middle of Gallery 8.

Post-Pliocene Lamellibranchia and Gastropoda from the Thames Valley, and Pliocene Mollusca from St. Erth, Cornwall (Warburton Collection); various Tertiary Mollusca from Turkey; Cretaceous Mollusca from Brazil (Mawson Collection) and Austria; Jurassic Mollusca from England and France (Blake Collection), and various other recent acquisitions have been registered, labelled, and incorporated in the unexhibited collection.

Number of specimens of Mollusca registered: Cephalopoda, 362; Gastropoda, 3,066; Lamellibranchia, 1,706.

Arthropoda (Gallery 8 and Workroom).—The registration, labelling, and arrangement of the unexhibited Crustacea Decapoda has been completed, and all the incorporated Arthropoda are now in order for scientific study. The transference of the contents of the drawers is, however, still in progress; all the British Trilobites and the Cambrian and Ordovician species among foreign Trilobites have been removed to 129 drawers of the new cabinets in the Workroom, to which the whole Arthropod collection will ultimately be transferred.

The following are the chief collections registered and incorporated during the year:—A Laur, Senonian cirripedes from Rügen; R. S. Bassler, Palæozoic Ostracoda from N. America; W. Madeley, various Carboniferous species from the ironstone of Staffordshire; T. Warburton, Decapoda from the Pliocene of St. Erth; R. Hudson, various trilobites; and especially the Caroline Birley Collection, containing arthropods from various British and foreign localities. Specimens have also been added from the collections of Col. C. C. Grant (Canadian trilobites), Dr. L. Szajnocha (Silurian of Podolia and Galicia), J. Mawson (Brazil), the late Prof. J. F. Blake, and H. Keeping (Shinerton trilobites).

The collection of exhibited Arthropoda has been entirely rearranged, the British specimens in table-cases 20-26, the foreign specimens in wall-cases 12-14, with the result that the arrangement now follows the modern classification of the Phylum, as adopted in the new Guide Book. In connection with this work many specimens have been rejected and more appropriate examples substituted, and among those now placed on exhibition are a series of *Tropidocaris* described by C. E. Beecher, the oldest known *Prosopeon*, well-preserved insects from the Coal-measures of Commeny, the rare *Lithomantis*, and *Julus*.

A wax model of the Silurian *Eurypterus fischeri*, twice natural size, has been made after the specimens in the Department and the descriptions of Prof. G. E. Holm, and is placed on exhibition.

Number of specimens of Arthropoda registered, 1,397.

Annelida (Gallery 8).—Numerous specimens from the following collections have been registered, labelled, and incorporated during the year:—J. F. Blake and Caroline Birley Collections from various localities and horizons; Col. Grant Collection from the Lower Palaeozoic rocks of Ontario; S. S. Buckman Collection from British Jurassic rocks; Collections of W. Gamble, A. W. Rowe, and T. H. Withers from the Upper Cretaceous of Britain, and of A. Laur from that of Rügen.

In the exhibited series some corrections have been made, and labels printed for the problematical British fossils assigned to *Nereites* and *Nereitopsis*.

Number of specimens of Annelida registered, 1,852.

Polyzoa (Gallery 8 and Workroom).—Progress has been made in the fitting of the cabinets of unexhibited Polyzoa in the workroom, and their arrangement has been continued.

Numerous recent acquisitions of Cretaceous Polyzoa have been sorted and mounted on wooden slips preparatory to study and cataloguing.

A number of specimens, formerly registered as Corals, have been removed from that group in Gallery 10, and placed with the Polyzoa, in both the exhibited and unexhibited series.

Number of specimens of Polyzoa registered, 2,237.

Brachiopoda (Gallery 8).—The arrangement, registration, and labelling of the unexhibited collection already in the drawers has been completed, and to it there have been added specimens from the J. E. Lee general collection, and the L. Szajnocha collection from the Silurian of Galicia as well as the following more recent accessions: A. S. Piret Collection from the Carboniferous of Tournai; Addison Crofton Collection from the Carboniferous of Yorkshire and the Jurassic

of the South of England; R. H. Valpy Collection from the Budleigh Salterton beds; J. F. Blake Collection from the Jurassic of France, Russia, and India; A. Laur Collection from the Senonian of Rügen; Anstice, Butler, Hudson, Meade, and Mockler Collections mainly from British rocks.

The old labels have been revised, particularly in the case of the British Carboniferous, Jurassic, and Cretaceous specimens.

The old exhibited series of British Jurassic Brachiopods has been removed, and is being replaced by a new selected series in table-case 17, with names and horizons carefully determined. Many corrections have also been made in the exhibited series of British Cretaceous and Carboniferous Brachiopods, and some new labels have been printed. In connection with the new Guide Book the whole British exhibited series has been rearranged.

Number of specimens of Brachiopoda registered, 5,637.

Echinoderma (Gallery 8).—Several specimens, especially the British Cretaceous Asteroidea, have been re-registered with separate numbers, while their naming has been revised.

The following are the chief recent accessions that have been registered, labelled, and incorporated:—Caroline Birley Collection of Echinoids, Asteroids, and Crinoids, from the Danian of Faxe, the Miocene of Malta, and a number of British localities and horizons; J. F. Blake Collection of Echinoids, Asteroids, and Crinoids from Britain, many European countries, and India, chiefly Jurassic; Addison Crofton Collection of Echinoids and Crinoids from the Jurassic of the S. of England and the Carboniferous of Yorkshire; A. Laur Collection of Echinoids from the Chalk of Rügen; J. Miguel Collection of Cambrian Cystids; A. S. Piret Collection of Tournaisian Echinoids, Crinoids, and Blastoids; A. W. Rowe Collection of Cenomanian Echinoids from Devonshire; T. Stock Collection of Carboniferous Crinoids from Alveston.

The unexhibited collection of British fossil Echinoderma has been rearranged in a larger number of drawers (186 in all) so as to admit of the above and future incorporations.

To bring the exhibited series into a more logical arrangement, the British Collection of Ophiuroids, Asteroids, and Palaeozoic Echinoids has been entirely rearranged in table-cases 29 and 30. Various Echinoids, both British and foreign, have been labelled and mounted for exhibition.

The porcelain tablets on table-cases A7, and 17-32, containing the Conularida, Brachiopoda, Arthropoda, Annelida, and Echinoderma, have been provided with new labels, in accordance with the new arrangements.

Number of specimens of Echinoderma registered: Echinoidea, 786; Asteroidea and Ophiuroidea, 123; Crinoidea, 874; Cystidea, 4; Blastoidea, 24; Total, 1,811.

Anthozoa (Gallery 10).—The Jurassic Corals from the Inferior Oolite and Lias formations have been arranged and labelled, while registering and incorporating recent acquisitions.

The typical collection of British Jurassic Corals exhibited in table-cases 15 and 16 has been completed.

Number of specimens of Anthozoa registered, 2,567.

Hydrozoa, Porifera, and Protozoa (Gallery 10).—Various specimens of fossil jelly-fishes, hitherto scattered, have been placed together on exhibition in wall-case 6c.

The Receptaculitidæ have been separated from the Porifera and exhibited together in table-case 15.

A large collection of Foraminifera, chiefly from the Chalk of Rügen, has been sorted and mounted on wooden slips preparatory to study.

The exhibited Radiolaria in table-case 15 have been rearranged, and a set of models illustrating the structure of the various orders has been modified in shape and colour; all these have been provided with explanatory labels. A model of a nummulite has had the various parts labelled, and is exhibited in table-case 16. Beside it has been placed a set of nummulites, with enlarged drawings and explanatory labels, to illustrate dimorphism in the Foraminifera.

Number of specimens registered, 1,205.

Plantæ (Gallery 10).—Recent acquisitions have been labelled and incorporated in the collection.

A large block of petrified plant-remains from the Coal-measures of Lancashire, has been mounted for exhibition on a separate stand.

Number of specimens of Plantæ registered, 242.

Tracks, &c., and Stratigraphical Collection (Gallery 11).—Part of wall-case 8 has been rearranged to accommodate some recently acquired specimens from the Wealden of Sussex.

A specimen of "wash-out" from the Shop pit, Ravensworth Colliery, co. Durham, has been placed on exhibition with an explanatory diagram and label in wall-case 1.

II.—*Mounting, etc.*

The restored skeleton of *Diprotodon*, from the Pleistocene of Australia, has been mounted on ironwork.

A skeleton of *Halitherium* has been prepared and mounted on ironwork.

A reproduction in plaster of the vertebral column of *Arsinoitherium* has been made, for incorporation in a complete model of the skeleton of this Egyptian Eocene mammal.

A mandible of *Tetrabelodon*, from the Loup Fork Formation of Kansas, has been prepared and mounted for exhibition.

Reptilian remains from the Karoo Formation of South Africa have been extracted from hard matrix.

Skeletons of *Peloneustes*, *Pliosaurus*, and other reptiles, from the Oxford Clay of Peterborough, have been prepared for study and exhibition.

Fishes from the Chalk of Kansas, and fish-remains from the English Chalk have been prepared for study and exhibition.

A piece of fossil wood from the London Clay, bored by *Teredo*, has been hardened, prepared, and mounted.

Plaster casts of skulls of Okapi, and numerous plaster casts for exchange, have been made.

Various recently acquired fossils have been trimmed preparatory to incorporation in the collection.

III.—*Printing of Labels.*

The Museum Printer continues to devote one day each week to the preparation of labels for the Department of Geology; but a Boy Attendant in the Department composes and prints most of the labels, and has this year prepared upwards of 966 (and 6,530 prints of these).

IV.—*Exchanges and Duplicates.*

Exchanges of plaster casts and duplicate fossils have been made with the following institutions:—Senckenberg Museum, Frankfurt; Palæontological Museum, Munich; Yale University Museum; and Amherst College, U.S.A. Small exchanges have also been made with Messrs. F. H. Butler, W. Storrs Fox, A. Escuti Orrego, and William Taylor.

Duplicate fossils have been presented to University College, London. Small duplicates and plaster casts for purposes of research have been supplied to Dr. F. Beyschlag, Prof. C. Depéret, Dr. Otto Reis, and Mr. I. A. Stigand.

V.—*Departmental Library.*

The additions to the Library, which have been registered, stamped, catalogued, and press-marked, comprise 177 new works and pamphlets, of which 48 were purchased and 129 presented; 575 parts of serials in progress, of which 224 parts were purchased and 351 presented; 291 maps, of which

14 sheets were purchased and 277 presented; 9 photographs presented; and 1 diagram purchased. 205 volumes have been bound.

Most of the maps published by the European Geological Surveys have been transferred to a new map-case, which has been provided this year.

VI.—*Publications.*

The Guide Book to the Fossil Invertebrate Animals has been re-written and published.

The MSS. of the Catalogues of Marine Reptiles of the Oxford Clay, Fossil Fishes (Supplement), and Cretaceous Bryozoa, have made progress.

Apart from the official publications issued by the Trustees, various descriptive papers dealing with different parts of the collection, chiefly recent acquisitions, have been contributed to scientific journals during 1907:—

By A. S. Woodward, LL.D., F.R.S.

1. Notes on some Upper Cretaceous Fish-remains from the Provinces of Sergipe and Pernambuco, Brazil. *Geol. Mag.* [5], vol. iv., pp. 193–197, pl. vii.

2. On a Reconstructed Skeleton of *Diprotodon* in the British Museum (Natural History). *Ibid.*, pp. 337–339, pl. xv.

3. On a new Leptolepid Fish from the Weald Clay of Southwater, Sussex. *Ann. Mag. Nat. Hist.* [7], vol. xx., pp. 93–95, pl. i.

4. On the Cretaceous Formation of Bahia (Brazil) and on Vertebrate Fossils collected therein. *Quart. Journ. Geol. Soc.*, vol. lxiii., pp. 128–139, pls. vi.–viii.

5. On a new Dinosaurian Reptile (*Scleromochlus taylori*) from the Trias of Lossiemouth, Elgin. *Ibid.*, pp. 140–144, pl. ix.

6. On a new Chimæroid Fin-spine from the Portland Stone. *Proc. Dorset N. H. Field Club*, vol. xxvii., pp. 181, 182, pl. A.

7. On a Pycnodont Fish of the Genus *Mesodon* from the Portland Stone. *Ibid.*, pp. 183–187, pl. B.

8. Notes on Cretaceous Fish-Teeth from the Mouth of the Umpenyati River, Natal. Third Report, *Geol. Surv. Natal*, pp. 99–101, pl. x.

9. Coal-measure Fish-Scales. *Ibid.*, p. 101.

10. Fossil Fish from the Chalk of North Lincolnshire. *The Naturalist*, 1907, p. 306.

11. On a Mandible of *Labyrinthodon leptognathus*, Owen. Rep. Brit. Assoc., Leicester.

12. The Fossil Fishes of the English Chalk, Part III. Mon. Palæont. Soc.

By F. A. Bather, M.A., D.SC.

1. Ordovician Cystidea from Burma (in F. R. C. Reed, The Lower Palæozoic Fossils of the Northern Shan States, Burma). Palæont. Indica, N.S., vol. ii., No. 3, pp. 6-40, pls. i., ii.

2. The Discovery in West Cornwall of a Silurian Crinoid characteristic of Bohemia. Trans. Roy. Geol. Soc. Cornwall, vol. xiii., pp. 191-197.

3. Australian Palæontologists on Silurian Ophiurids. Geol. Mag. [5], vol. iv., pp. 313, 314.

4. Nathorst's use of Collodion imprints in the Study of Fossil Plants. Ibid., pp. 437-440.

5. *Echinocrinus* versus *Archæocidaris*. Ann. Mag. Nat. Hist. [7], vol. xx., pp. 452-456.

By R. B. Newton, F.G.S.

1. Relics of Coloration in Fossil Shells. Proc. Malac. Soc., vol. vii., pp. 280-292, pl. xxiv.

By C. W. Andrews, D.SC., F.R.S.

1. Note on some Vertebrate Remains collected in the Fayum, Egypt, in 1906. Geol. Mag. [5], vol. iv., pp. 97-100.

2. Notes on the Osteology of *Ophthalmosaurus icenicus*, Seeley, an Ichthyosaurian Reptile from the Oxford Clay of Peterborough. Ibid., pp. 202-8.

3. Note on the Cervical Vertebra of a *Zeuglodon* from the Barton Clay of Barton Cliff (Hampshire). Quart. Journ. Geol. Soc., vol. lxiii., pp. 124-127.

By G. C. Crick, A.R.S.M., F.G.S.

1. Cretaceous fossils of Natal. Third Rep. Geol. Surv. Natal, pp. 163-250, pls. x.-xv.

2. The Cretaceous Rocks of Natal and Zululand and their Cephalopod Fauna. Geol. Mag. [5], vol. iv., pp. 339-347.

3. Note on two Rare Forms of *Actinocamax* from the English Upper Chalk. Ibid., pp. 389-395.

4. On the Arms of the Belemnite. Proc. Malac. Soc., vol. vii., pp. 269-279, pl. xxiii.

By W. D. Lang, M.A., F.G.S.

1. The Evolution of *Stomatopora dichotomoides* (d'Orbigny). Geol. Mag. [5], vol. iv., pp. 20-24.

2. A Tabular View of the Cretaceous Polyzoa of the Family Idmoniidæ. Ibid., pp. 122-132.

3. The Selbornian of Stonebarrow Cliff, Charmouth. Ibid., pp. 150-156.

By Miss D. M. A. Bate.

1. On Elephant Remains from Crete, with Description of *Elephas creticus*, sp. n. Proc. Zool. Soc., 1907, pp. 238-250, pls. xii., xiii.

By Baron Franz Nopcsa, Junr.

1. Ideas on the Origin of Flight. Proc. Zool. Soc., 1907, pp. 223-236, text-figs. 74-82.

By Prof. H. G. Seeley, F.R.S.

1. Evidences of a Mandible of a new Labyrinthodont from the Upper Karroo Beds of Cape Colony (*Ptychosphenodon browni*). Geol. Mag. [5], vol. iv., pp. 432-436, pl. xix.

By R. W. Hooley, F.G.S.

1. On the Skull and greater Portion of the Skeleton of *Goniopholis crassidens* from the Wealden Shales of Atherfield (Isle of Wight). Quart. Journ. Geol. Soc., vol. lxiii., pp. 50-62., pls. ii-iv.

By H. Woodward, LL.D., F.R.S.

1. On the genus *Pygocephalus* (Huxley), a primitive Schizopod Crustacean, from the Coal Measures. Geol. Mag. [5], vol. iv., pp., 400-407, pl. xviii.

2. Further Notes on the Arthropoda of the British Coal measures. Ibid., pp. 539-549, text-figs. 1-5.

By A. S. Kennard, F.G.S., and B. B. Woodward, F.G.S.

1. Notes on Post-Pliocene Mollusca of the Mylne Collection. Proc. Malac. Soc., vol. vii., pp. 261-263.

By A. Vaughan, D.SC., F.G.S.

1. *Seminula*. Ann. Mag. Nat. Hist. [7], vol. xix., pp. 194-198.

By S. S. Buckman, F.G.S.

1. Brachiopod Morphology. *Cincta*, *Eudesia*, and the Development of Ribs. Quart. Journ. Geol. Soc., vol. lxiii., pp. 338-343, pl. xxiv.

2. Brachiopod Nomenclature: the Genotype of *Terebratula*. Ann. Mag. Nat. Hist. [7], vol. xix., pp. 525-531, pl. xii.

3. Brachiopod Nomenclature: *Seminula*, etc. Loc. cit., vol. xx., pp. 223-226.

By Prof. J. W. Gregory, D.S.C., F.R.S.

1. The Rotiform Bryozoa of the Isle of Wight. Geol. Mag. [7], vol. iv., pp. 442, 443.

By D. H. Scott, F.R.S., and A. J. Maslen, F.L.S.

1. The Structure of the Palæozoic Seeds, *Trigonocarpus parkinsoni*, Brongniart, and *Trigonocarpus oliveri*, sp. nov. Part I. Ann. Botany, vol. xxi., pp. 89-134, pls. xi-xiv.

By G. Hickling, B.S.C.

1. The Anatomy of *Palæostachya vera*. Ann. Botany, vol. xxi., pp. 369-386, pls. xxxii., xxxiii.

By F. E. Weiss, D.S.C., F.L.S.

1. The Parichnos in the Lepidodendraceæ. Mem. Manchester Lit. and Phil. Soc., vol. li., no. 8.

By D. M. S. Watson.

1. On *Lepidodendron harcourtii*, Witham, and *L. hickii*, sp. nov. Mem. Manchester Lit. and Phil. Soc., vol. li., no. 13.

Various fossils in the Department of Geology have also been described and figured by Dr. R. H. Traquair, Mr. H. Woods, Mr. W. K. Spencer, Miss I. L. Slater, Mr. P. Lake, Miss Elles, and Miss Wood (Mrs. Shakespear), in the Monographs of the Palæontographical Society, vol. lxi., for 1907.

Specimens have been lent for original research to Mrs. Longstaff (Putney), Miss Elles (Cambridge), Mr. H. Woods (Cambridge), Mr. P. Lake (Cambridge), Mr. E. A. N. Arber (Cambridge), Mr. S. S. Buckman (Thame), Dr. W. Hind (Stoke-on-Trent), Prof. F. E. Weiss (Manchester), Mrs. Shakespear (Birmingham), Dr. R. H. Traquair (Edinburgh), Mr. R. G. Carruthers (Edinburgh), Mr. R. Kidston (Stirling), and Prof. R. T. Jackson (Harvard University, U.S.A.).

VII.—*Acquisitions.*A.—*By Bequest.*

A selected series of about 4,200 fossils collected by the late Miss Caroline Birley, including the following important specimens :—

Post-Tertiary marine Mollusca from Ireland.

Tertiary Mollusca, Echinoids, and other fossils from Malta, the Canary Islands, and the Mekran coast of Baluchistan. Some of the Mekran specimens are described and figured in Geol. Mag., 1905, pp. 293–310, pls. xvi., xvii.

A collection of Crustacea, Mollusca, Polyzoa, and Corals from the Cretaceous of Faxe, Denmark. The Crustacea are described and figured in Geol. Mag., 1901, pp. 486–502, pl. xii.

Small remains of Fishes and Reptiles from the Upper Cretaceous of Colorado, U.S.A.

Fossils from the Carboniferous Limestone of the Isle of Man and Northumberland, including Cephalopoda described and figured in the Catal. Foss. Cephalopoda B.M., part iii.

B.—*By Donation.*

Mammalia.—A restored skeleton of *Diprotodon australis* from the Pleistocene, Lake Callabonna, S. Australia, comprising the following parts :—2 humeri, 2 ulnae, 2 radii, 1 left manus, 2 femora, 2 tibiae, 2 fibulae, 1 left pes, 4 segments of sternum, 2 series of caudal vertebrae, 1 first rib, 1 clavicle, and 1 marsupial bone; plaster casts of skull and mandible, presacral vertebrae, with ribs, left metacarpal V., right manus, right pes, fabella, and right os trigonum, and a marsupial bone. Presented by the Governors of the Public Library, Museum, and Art Gallery of S. Australia, Adelaide.

Two portions of mandible of *Diprotodon australis* from Pleistocene river deposits, Queensland. One portion of mandibular ramus of *Diprotodon* and one portion of maxilla of *Nototherium* from the Pleistocene of King's Creek, Queensland. Presented by G. F. Bennett, Esq.

A fragment of jaw of *Squalodon* from the Asphalt Mines, Middle Miocene, Ragusa, Sicily. Presented by Cavalier Ambroise Paré Brown.

An upper milk-molar and portion of tusk of *Mastodon*, and upper molar of a Ruminant, from the Red Crag. Presented by Major Moore.

An upper molar of Mammoth from Gravel Pit at Manuden, Stanstead, Essex. Presented by A. Burls, Esq.

A tusk and portion of molar of *Elephas*, from Kempton Park pumping station. Presented by Joseph Francis, Esq., M.Inst.C.E.

A selected series of vertebrate remains from the Hoe Grange Cavern, near Brassington, Derbyshire, including *Hyæna crocuta*, *Ursus horribilis*, *Rhinoceros leptorhinus*, *Cervus dama*, etc.; also plaster casts of lower milk-teeth of *Felis leo* and portion of milk-molar of *Elephas antiquus* from the same deposit, figured by Bemrose and Newton in Quart. Journ. Geol. Soc., vol. lxi. (1905), pl. vii., figs. 1, 5, 5a. Presented by E. T. Newton, Esq., F.R.S.

Anterior dorsal vertebra of *Bos primigenius* from Pleistocene Gravel, Lower Mitcham, Surrey. Presented by R. Garraway Rice, Esq., F.S.A.

A frontlet with horn-cores of *Bison priscus* from the Lolham Gravel Pits (G.N. Ry.), Bainton, Northamptonshire. Presented by Lord Kesteven.

Twenty-five remains of *Bos*, *Ovis*, *Sus*, and *Equus*, from the site of the Roman Castle, Pevensy, Sussex. Presented by William Page, Esq., F.S.A.

A hundred and seventy Mammalian remains (*Homo*, *Ursus*, *Canis*, *Rhinoceros*, *Equus*, etc.) from the Ravencliffe Cave, Derbyshire. Presented by W. Storrs Fox, Esq., M.A.

Human skeleton, incomplete, of late Neolithic or very early Bronze Age, from the Portland Rock Quarry, Olcus, Swindon. Presented by A. D. Passmore, Esq.

Reptilia and Amphibia.—Three specimens of *Mesosaurus* from the Permo-Carboniferous of Iraty, Paraná; three specimens of *Stereosternum tumidum* from the Permo-Carboniferous of the State of San Paulo, Brazil; twenty specimens of *Stereosternum* from the Permo-Carboniferous of the Rio Claro, San Paulo. Presented by Dr. Orville A. Derby.

Supposed track of tail of *Cheirotherium* from the Keuper Sandstone, Storeton; from the G. H. Morton Coll. Presented by Miss Morton.

Mandible of a Labyrinthodont from the Keuper Sandstone, Cubbington Heath Quarry, Leamington. Presented by S. S. Stanley, Esq., F.G.S.

Megalosaurian tibia from the Lower Lias of Wilmcote, near Stratford-on-Avon. Presented by Miss Evelyn Irby.

Six fragmentary reptilian bones from the Middle Purbeck, Durlleston Bay. Presented by Miss Laura Jarvis.

Chelonian costal plate from the Purbeck Beds, Swanage. Presented by A. Burls, Esq.

Plaster-cast of brain-cavity of *Triceratops*. Presented by the Director, U.S. Nat. Museum, Washington, D.C., U.S.A.

Pisces.—One tooth of *Psephodus magnus* from the Carboniferous Limestone of Armagh. Presented by Thomas Warburton, Esq.

Six Carboniferous fish-teeth, from the collection of the late Rev. Addison Crofton. Presented by Miss Crofton.

Twelve supposed Cœlacanth fish-scales, from the Coal-fields of Zululand and Natal; twenty-five fish-teeth from the Cretaceous of Zululand and Natal. Described in the "Third and Final Report of the Geological Survey of Natal and Zululand," 1907, pp. 99-101, pl. x. Presented by William Anderson, Esq., F.G.S.

Twenty specimens of Ganoid fish-scales from the Permo-Carboniferous of the State of San Paulo, Brazil. Presented by Dr. Orville A. Derby.

A new Leptolepid fish (*Leptolepis valdensis*, A. S. Woodward, Ann. Mag. Nat. Hist. [7], vol. xx., p. 93, pl. i.) from the Wealden of Southwater, Sussex. Presented by the Directors of the Southwater Brick and Tile Co., Ltd.

A tooth of *Ptychodus* from the Cenomanian of Beer, S. Devon. Presented by Dr. A. W. Rowe, F.G.S.

Two specimens of *Aulolepis typus* from the English Chalk, and a Percoid from the Upper Eocene of Monte Bolca, Italy. Presented by the Rev. Robert Hudson, M.A.

Four fossil fishes from the Cretaceous of Mt. Lebanon. Presented by Rev. Samuel Schor.

Six fossil fishes (*Lepidotus*, *Mawsonia*, and a Clupeoid species) from the Cretaceous of Ilheos, State of Bahia, Brazil. Presented by Prof. Dr. Ennes de Souza.

Teleostean fish and a tooth of *Notidanus* from the Asphalt Mines, Middle Miocene, Ragusa, Sicily. Presented by Cavalier Ambroise Paré Brown.

Thirteen fish-remains from the Tertiary lacustrine deposits (Pontian) of the Island of Tcheleken, on the Asiatic side of the Caspian Sea. Presented by A. Adiassewich, Esq., F.R.G.S.

Ten fish-teeth from the Tertiary of Chili. Presented by Señor Anjel Estevan Guerra.

Thirty-one microscope-slides of fossil fish-remains. Presented by E. S. Goodrich, Esq., F.R.S.

Mollusca.—Fifty-one Mollusca from the Eocene, Cretaceous, Jurassic, and Palaeozoic rocks of British and Foreign localities, being part of the collection of the late Robert Hudson, F.R.S. A Hippurite in the collection was described as *Conia* by R. Hudson, Mag. Nat. Hist., 1836, vol. ix., p. 104, fig. 19. Presented by Rev. Robert Hudson, M.A.

One hundred and twenty Mollusca from the Cambrian and Ordovician rocks of Oeland, Baltic Sea. Collected and presented by Dr. F. A. Bather, F.G.S.

Four Mollusca from the Wenlock of Hamilton, Ontario. Presented by Col. C. C. Grant.

Sixteen Carboniferous Mollusca from the neighbourhood of Settle, and 92 English Mesozoic Mollusca, from the collection of the late Rev. Addison Crofton. Presented by Miss Crofton.

Thirty-eight young Ammonites from the Upper Lias, Alderton Hill, Gloucestershire. Presented by S. S. Buckman, Esq., F.G.S.

One *Ctenostreon* showing spines, from the Inferior Oolite, West Bay, Bridport, Dorset. Presented by Miss Eva Prior.

Four Ammonites from the Callovian, South Cave, Yorkshire. Presented by H. C. Drake, Esq.

One *Belemnites oweni*, var. *puzosianus* from the Oxford Clay of Wootton Pillinge, Bedfordshire. Presented by Alfred Vinter, Esq.

One *Aspidoceras* from the Middle Oolite, Brora, Sutherland. Presented by Master Rupert Gunnis.

A deformed Jurassic Belemnite, from the Mead Collection. Presented by Spencer G. Perceval, Esq.

Seven Mollusca from the Jurassic, Copiapo, Chili, and one Tertiary *Ostrea* from Chili. Presented by Señor Anjel Estevan Guerra.

Rock with *Posidonomya*, *Ostræa*, etc., from the Jurassic of Morro de Arica, Chili. Presented by Prof. A. E. Orrego.

Eight Mollusca from the Cretaceous and Jurassic rocks of Melargue, Argentine Republic. Presented by Hugh Pearson, Esq.

Cast of body-chamber of *Macroscaphites gigas*, Lower Greensand, from a well through Kentish Rag on Crockham Hill, W. of Sevenoaks. Presented by P. G. Mackinnon, Esq.

Twenty-four Mollusca from the Lower Greensand of Sandown. Presented by Lieut.-Col. Worthington Wilmer.

An *Exogyra sinuata* from the Lower Cretaceous in a deep boring near Oxted, Surrey. Presented by C. Day, Esq.

Eighty-eight Mollusca from the Cenomanian of Beer, S. Devon. Presented by Dr. A. W. Rowe, F.G.S.

Three hundred and fourteen Mollusca from the Cretaceous of Zululand and Natal. The Cephalopods are described in the "Third and Final Report of the Geological Survey of Natal and Zululand," 1907, pp. 161-250, pls. x-xv. Presented by William Anderson, Esq., F.G.S.

A block of wood bored by *Teredo*, from the London Clay at the reservoir, N. of Gravel Pit Wood, Fortis Green, London, N. Presented by Joseph Francis, Esq., M.Inst. C.E., through George Potter, Esq., F.R.M.S.

Two specimens of *Cardita planicosta* of Lutetian age, found in the harbour of Bruges; probably ballast originally from Bracklesham Bay, Sussex. Presented by Col. C. E. Shepherd.

Three specimens of *Lucina* from the Eocene of Toranka, E. of Sokoto, N. Nigeria. Presented by the Director of the Imperial Institute.

A specimen of *Aturia* from the Miocene, Vizzini, Sicily. Presented by Cavalier Ambroise Paré Brown.

Eighteen Mollusca from the marine Sarmatian deposits of Poland. Presented by R. Lydekker, Esq., F.R.S.

Thirty-eight Mollusca from the Tertiary lacustrine deposits (Pontian) of the I. of Tcheleken, on the Asiatic side of the Caspian Sea. Five Ostreiform shells from the Fergana Tertiary Beds (Lutetian) of Turkestan. Two natural limestone casts of a Lamellibranch and a Gastropod from the Eocene (?) W. of Fergana. One natural cast in asphaltic material of *Exogyra flabellata*, from the Cenomanian of N. Syria. Presented by A. Adiassewich, Esq., F.R.G.S.

Two specimens of *Helix* from a modern deposit, Bermuda. Presented by John Ponsonby, Esq.

A piece of marl with Pteropoda obtained by M. Nicolls (Director of Public Works, Nicosia) from a boring near Nicosia, Cyprus, 520 feet below the surface. Presented by A. J. Jukes-Browne, Esq., F.G.S.

Clay with dwarf shells of *Mytilus edulis* from a Post-glacial deposit at Upsala, Sweden. Presented by Dr. F. A. Bather, F.G.S.

Arthropoda.—Two specimens of *Ptychoparia kingi* from the Cambrian of Nevada, U.S.A. Presented by A. G. Churchwood, Esq.

Twenty-eight plaster casts of Dr. G. F. Matthew's type-specimens of Canadian Cambrian Ostracoda. Presented by Dr. R. S. Bassler.

Two hundred and twenty-nine Arthropoda from the Cambrian and Ordovician rocks of Oeland, Baltic Sea. Collected and presented by Dr. F. A. Bather, F.G.S.

Seven Trilobites from the Wenlock rocks of Hamilton, Ontario. Presented by Col. C. C. Grant.

Six Carboniferous Arthropods from the neighbourhood of Settle, and a Tertiary Crab from China; part of the collection of the late Rev. Addison Crofton. Presented by Miss Crofton.

Six specimens of *Griffithides barkei*, including one described and figured by H. Woodward, Proc. Yorks. Geol. Soc., vol. xvi., (1906), p. 84; from base of Lower Culm, Angram, Nidderdale, Yorkshire. Presented by E. Hawkesworth, Esq.

One *Tetracarcinus subquadratus* from the Cretaceous (Woodbury Clay), Lorillard, New Jersey. Presented by Dr. Stuart Weller.

One Crustacean from the Cretaceous rocks of Zululand. Presented by William Anderson, Esq., F.G.S.

Thalassina in a nodule from Port Darwin. Presented by Dr. F. W. Wood Jones.

Five fossil Crustacea from the collection of the late Robert Hudson, F.R.S. Presented by Rev. Robert Hudson, M.A.

Echinoderma.—Eight column-fragments of "*Pentacrinus*" *priscus* from the Ordovician, Spitham, Esthonia. Presented by Baron Dr. F. von Huene.

Six hundred specimens of Echinoderma from the Cambrian and Ordovician of Oeland, Baltic Sea. Collected and presented by Dr. F. A. Bather, F.G.S.

Thirty remains of Crinoidea from the Ordovician, Hudson River Group of Cincinnati, Ohio, U.S.A. Presented by Thomas W. Reader, Esq.

Eight Blastoids and eight cups of Dicyclic Crinoids from the Lower Carboniferous Hurlet Series of Inveriel, Fife. Presented by James Wright, Esq., Jr.

One *Echinocrinus* and fifty Crinoid remains from the Carboniferous Limestone of Castleton and Hassop, Derbyshire. Presented by Miss C. E. Shuckburgh.

Fragments of Carboniferous Echinoderms from the neighbourhood of Settle, and four hundred and fifty-two Echinoderms from the English Mesozoic rocks; part of the collection of the late Rev. Addison Crofton. Presented by Miss Crofton.

One *Mesodiadema* from the Lower Lias, Canard's Grave, near Shepton Mallet, Somerset. Presented by S. S. Buckman, Esq., F.G.S.

One *Pentacrinus dichotomus* from the Upper Lias of Kettering. Presented by A. K. Coomaraswamy, Esq., D.Sc.

Six Ophiurids from the Calcareous Grit near Oswaldkirk, Yorkshire. Presented by Daniel Arkell, Esq.

Rock with remains of Jurassic Echinoids from Morro di Arica, Chili. Presented by Prof. A. E. Orrego.

Forty Echinoderma from the Cenomanian of Beer, S. Devon; three radioles of an echinoid, *Cidaris sorigneti*, from the Turonian, zone of *Rhynchonella cuvieri*, Branscombe, S. Devon. Presented by Dr. A. W. Rowe, F.G.S.

Three internal casts in flint of *Echinocorys*, of Senonian age, found in drift on the Island of Sylt, Denmark. Presented by Rev. C. J. Klesel.

One *Pentagonaster browni*; plaster cast of type-specimen from Upper Cretaceous (Fox Hills Sandstone) near Lander, Wyoming. Presented by Dr. Stuart Weller.

Two Echinoids (*Plesiolampas* and *Hemiaster*) from the Eocene of Toranka, 5 miles east of Sokoto, Northern Nigeria. Presented by the Director of the Imperial Institute.

Twenty Echinoderms from the collection of the late Robert Hudson, F.R.S. Presented by Rev. Robert Hudson, M.A.

Brachiopoda.—Ten Brachiopods from the Wenlock of Hamilton, Ontario. Presented by Col. C. C. Grant.

Two hundred and eighty Brachiopods from the Cambrian and Ordovician of Oeland, Baltic Sea. Collected and presented by Dr. F. A. Bather, F.G.S.

One *Productus* from the Carboniferous Limestone, Park Hill, on R. Dove, Derbyshire. Presented by Miss C. E. Shuckburgh.

Three hundred and eighty-two Brachiopods from the Carboniferous near Settle, and four hundred and fifty-two from the Mesozoic rocks of England; part of the collection of the late Rev. Addison Crofton. Presented by Miss Crofton.

Thirteen specimens of *Rhynchonella* from the Lower Lias between Lyme and Charmouth, Dorset. Presented by W. D. Lang, Esq.

Fourteen Brachiopods from the Cornbrash, E. of Corscombe Church, N.E. of Beaminster, Dorset. Presented by Mrs. J. L. Templer.

Jurassic rock from Morro di Arica, Chili, containing *Rhynchonella*. Presented by Prof. A. E. Orrego.

Eight Brachiopods from the Jurassic, Copiapo, Chili. Presented by Señor Angel Estevan Guerra.

Twenty-seven Brachiopods from the Cenomanian of Beer, S. Devon. Presented by Dr. A. W. Rowe, F.G.S.

Fifty-seven Brachiopods from the collection of the late Robert Hudson, F.R.S. Presented by Rev. Robert Hudson, M.A.

Annelida.—Two Annelids from the Wenlock of Hamilton, Ontario. Presented by Col. C. C. Grant.

One Annelid track from the Carboniferous of Settle, from the collection of the late Rev. Addison Crofton. Presented by Miss Crofton.

Two Annelida from the Cenomanian of Beer, S. Devon. Presented by Dr. A. W. Rowe, F.G.S.

One Annelid from the Cretaceous of Zululand. Presented by William Anderson, Esq., F.G.S.

Polyzoa.—Sixteen Polyzoa from the Wenlock of Hamilton, Ontario. Presented by Col. C. C. Grant.

Numerous Polyzoa from the Cambrian and Ordovician of Oeland, Baltic Sea. Collected and presented by Dr. F. A. Bather, F.G.S.

Fifteen Polyzoa from the Carboniferous near Settle, and three Polyzoa from the Mesozoic rocks of England; part of the collection of the late Rev. Addison Crofton. Presented by Miss Crofton.

A hundred and thirty-four specimens, illustrating fifty species, of Palaeozoic Polyzoa, chiefly from North America. Presented by Dr. R. S. Bassler.

Seven Polyzoa from the Lower Greensand, Farringdon. Presented by Lt. Treacher, Esq., F.G.S.

Two Polyzoa from the Lower Greensand of Sandown. Presented by Lieut.-Col. Worthington Wilmer.

Four Polyzoa from the Cenomanian of Beer, S. Devon. Presented by Dr. A. W. Rowe, F.G.S.

Polyzoa from the English Chalk, named by the donor in accordance with his paper on the Fauna of the Trimmingham Chalk, Geol. Mag., 1906, p. 289. Presented by R. M. Brydone, Esq., F.G.S.

A specimen of *Echinocorys scutatus*, covered with Polyzoa of the genera *Proboscina*, *Berenicea*, *Idmonea*, *Membranipora*, and *Onychocella* from the Chalk, zone of *M. coranguinum*, Melville Avenue, Croydon. Presented by F. Gossling, Esq.

Two Polyzoa from the collection of the late Robert Hudson, F.R.S. Presented by Rev. Robert Hudson, M.A.

Coelentera.—Two pieces of shale containing *Diplograptus cf. truncatus*, Lapworth, one figured in Geol. Mag., 1901, p. 195, from Ordovician rocks, probably of Bala age, River Macho, Carabaya, Peru. Presented by H. J. Jessop, Esq.

A specially fine specimen of *Tetragraptus quadribrachiatus* from the Skiddaw Slates, Hodgson's How, near Keswick. Presented by John Postlethwaite, Esq., F.G.S.

Numerous *Coelentera* from the Cambrian and Ordovician of Oeland, Baltic Sea. Collected and presented by Dr. F. A. Bather, F.G.S.

Three Hydrozoa from the Wenlock Beds of Hamilton, Ontario. Presented by Col. C. C. Grant.

One Coral (*Cladochonus bacillarius*) from the Upper Carboniferous Limestone, Wetton Hill, N. Staffordshire. Presented by Dr. A. S. Woodward, F.R.S.

Seven Carboniferous Corals from the neighbourhood of Settle, and two Corals from the Mesozoic rocks of England; part of the collection of the late Rev. Addison Crofton. Presented by Miss Crofton.

Five specimens of a Coral (*Cyathophora*) from the Aalenian of Huddiknoll, Gloucestershire. Presented by Miss H. Mary Hutton.

One Coral from the Cenomanian of Beer, S. Devon. Presented by Dr. A. W. Rowe, F.G.S.

Eight Cretaceous Corals from Zululand and Natal. Presented by William Anderson, Esq., F.G.S.

One Coral from the collection of the late Robert Hudson, F.R.S. Presented by Rev. Robert Hudson, M.A.

Porifera.—One Sponge from the Wenlock of Hamilton, Ontario. Presented by Col. C. C. Grant.

One specimen of *Astylospongia roemeri*. Presented by Thomas Warburton, Esq.

One *Serpula* with boring Sponge (*Talpina*) and two other Sponges from the Cenomanian of Beer, S. Devon. Presented by Dr. A. W. Rowe, F.G.S.

One Sponge from the Cretaceous of Zululand. Presented by William Anderson, Esq., F.G.S.

Protozoa.—A piece of *Fusulina*-limestone of Lower Carboniferous age, from Nino, Japan. Presented by Prof. T. McKenny Hughes, F.R.S.

A collection of Radiolaria, mounted on slides, from the Upper Chalk of Coulsdon, Surrey, described and figured by the donor in Quart. Journ. Geol. Soc., 1900, pp. 694-704, pls. xxxvii., xxxviii. Presented by W. Murton Holmes, Esq.

Seventy-seven Foraminifera from the lowest Chalk of Corscombe, N.E. of Beaminster, Dorset. Presented by W. D. Lang, Esq.

Two pieces of Nummulitic Limestone from the Buzi River district of Gazaland, Portuguese Africa. Presented by C. F. M. Swynnerton, Esq.

Plantæ.—Eighteen plant remains (*Glossopteris* and *Phyllothea*) from the Coalfields of Zululand and Natal. Presented by William Anderson, Esq., F.G.S.

Three specimens of *Glossopteris* from N.W. Rhodesia, lat. 16° 28' 42". Presented by A. J. C. Molyneux, Esq., F.G.S.

Two pieces of fossil wood and one piece of *Lycopodiopsis derbyi* from the Permo-Carboniferous of San Paulo, Brazil. Presented by Dr. Orville A. Derby.

Fossil wood in flint, from Valley Gravel, Hogdon Bottom, Banstead, Surrey. Presented by T. E. Ware, Esq.

Section of fossil tree from Viziwa, left affluent of N. Loangwa river, N.E. Rhodesia; collected by Sir Alfred Sharpe. Presented by Charles B. C. Storey, Esq., F.G.S.

Rock Specimens.—Four tracks and markings from the Cambrian and Ordovician rocks of Oeland, Baltic Sea. Collected and presented by Dr. F. A. Bather, F.G.S.

Four slabs of problematical markings from the Wadhurst Clay, Hollington and Crowhurst, near St. Leonards. Presented by F. Ross Thomson, Esq., F.G.S.

Rocks with markings supposed to be of organic origin, from the top of the Portland Beds, Brill, Bucks. Presented by Prof. H. G. Seeley, F.R.S.

Specimen of Conglomerate known as "wash," filling the ancient valley of the R. Team, Ravensworth Colliery, Durham. Presented by William Avery, Esq.

Ironstone concretion found in Gravel Pits, Aylesford, Kent. Presented by George Abbott, Esq., M.R.C.S.

Specimen of sea-bottom 4.5 miles N.E. of Bull Rock Lighthouse, San Antonio, Cape Verde Islands, depth 900 fathoms. Presented by Vernon K. Cornish, Esq.

Four deep-sea soundings from W. New Zealand and N.W. of West Australia. Presented by Dr. F. Wood Jones.

C.—By Purchase.

Mammalia.—Two hundred and forty Mammalian remains from the Oligocene Phosphorites of France.

Mammalian remains collected by Don Francisco Clua from the Oligocene of Tárrega, Lérida, Spain, including *Brachyodus cluai*.

Skeleton of *Halitherium* from Oligocene Marine Clay, Budenheim, Germany.

A mandible of *Tetrabelodon* from the Loup Fork Formation, Kansas, U.S.A.

A Ziphioid rostrum from the Red Crag.

Two milk-molars of *Elephas*; one tooth of *Elephas meridionalis*; and palate of *Elephas meridionalis* from the Forest Bed, Happisburgh.

Remains of *Spermophilus* and *Felis leo* from the Pleistocene of the Thames Valley.

Remains of *Arctomys* from the Pleistocene of Bohemia.

One hundred and fifty remains of extinct Lemurs from a swamp, Ampàsambazimba, district of Miàrinariòo, Madagascar.

Reptilia and Amphibia.—Labyrinthodont jaw in Coal shale, Northumberland.

Seven fossil reptiles from the Triassic Sandstone of Elgin, including *Ornithosuchus* and the type specimen of *Scleromochlus taylori*.

Scutes of *Goniopholis* from the Purbeck of Swanage.

Chelonian bone from the Chalk.

Reptilian remains from the Oligocene of Tárrega, Lérida, Spain.

Pisces.—Fish-remains from the Culm Measures of North and West Devon.

A Leptolepid fish from the Lithographic Stone.

Vomer of *Pycnodus pagoda*, Blake: the type specimen; from Portland Stone, Upwey, Weymouth.

A hundred and eighty teeth and scales of fishes, chiefly from the Lower Greensand of Godalming.

One group of the teeth of *Ptychodus*, six Teleostean fishes and fish-fragments from the English Chalk (Dibley Collection). Also remains of *Belonostomus* and *Enchelurus* from the English Chalk.

Three portions of the skeleton of *Gillicus* and one of *Ichthyodectes* from the Chalk of Kansas.

Three fossil fishes (*Diodon*, *Naseus*, *Eomyrus*) from the Eocene of Monte Bolca, and one jaw of *Gyrodus umbilicus*, one tooth of *Sargodon tomicus*, and two of *Gymnodus diodon*.

Head of a Teleostean fish from the London Clay.

Mollusca.—Twenty-five Mollusca from the Carboniferous Limestone of Tournai (Piret Collection).

Shells from the Culm Measures of North and East Devon (Rogers Collection).

Nine hundred and fifty Mollusca from the Trias of Bosnia (Hawelka Collection).

Three hundred English Jurassic Mollusca, chiefly Ammonites and Nautili (S. S. Buckman Collection).

Six Ammonites, one Baculite, one Nautilus, and a large Gastropod, from the English Chalk (Dibley Collection).

Two hundred and twenty-four species and varieties of terrestrial, freshwater, and brackish water Gastropods and Lamellibranchs from the Oligocene of the Mayence Basin.

Mollusca from the Oligocene of Tárrega, Lérida, Spain.

Belemnitella mucronata from the Red Crag.

Five hundred and twenty-four boxes of Mollusca from the Pliocene of St. Erth, Cornwall, including specimens described and figured by Alfred Bell, Trans. Roy. Geol. Soc., Cornwall.

Sixty boxes of Pleistocene non-marine Mollusca from the Thames Valley.

Fossil *Pecten* from the Tertiary of Gippsland, Victoria.

Arthropoda.—A model of *Eurypterus*, made by Mrs. E. D. Blackman.

A thousand specimens of Palæozoic Ostracoda, chiefly North American (Bassler Collection).

An electrotype reproduction of *Prosopon*.

Fifty-four fossil Arthropods in ironstone nodules from the Coal Measures, Coseley, near Dudley.

Three specimens of *Loricula* sp. nov., fixed to an Ammonite from the Chalk of Kent (Dibley Collection).

Echinoderma.—Thirty-five Echinoderma from the Carboniferous Limestone of Tournai (Piret Collection).

Four Echinoderma from the Jurassic rocks of the West of England.

One *Pseudodiadema malbosi*, with radioles, from the Lower Greensand of Atherfield.

One *Micraster cor-bovis*, one large *Holaster placenta*, and two other Echinoderma from the English Chalk.

Six microscope-sections of Cretaceous Asteroidea.

An Echinoid from the Tertiary of Gippsland, Victoria.

Five electrotypes of type-specimens of fossil Echinoderms.

Brachiopoda.—Four Brachiopods from the Carboniferous Limestone of Tournai (Piret Collection).

Fourteen thousand Brachiopods from the Trias of Bosnia (Hawelka Collection.)

Fourteen hundred Brachiopods from the Great Oolite of Dundry.

Eight hundred and sixty-nine Brachiopods from the Great Oolite of Hampton Down, Bath.

Two Brachiopoda from the English Chalk.

Annelida.—An undetermined species from the English Chalk.

Polyzoa.—A hundred and seventy-four microscope-slides of Polyzoa from the Palæozoic of North America (Bassler Collection).

One Polyzoon from the Carboniferous Limestone of Tournai.

Two hundred Polyzoa from the Great Oolite of Dundry.

Three hundred and seventy-two Polyzoa from the Great Oolite of Hampton Down, Bath.

Polyzoa from Bradford Clay and Fuller's Earth.

Eight Polyzoa from the English Chalk.

Polyzoa from the Pliocene of St. Erth, Cornwall.

Coelentera.—A hundred Ordovician Graptolites from New Zealand.

A hundred Corals from the Carboniferous of the West of England.

Nine Hydrozoa from the Great Oolite of Dundry.

Electrotype of the type-specimen of *Heterastræa rhætica*, Tomes, from the English Rhætic.

Four corals from the English Chalk.

Porifera.—Twenty-two Sponges from the Carboniferous Limestone of Tournai (Piret Collection).

One sponge from the Great Oolite of Dundry.

Two sponges from the English Chalk.

Protozoa.—Three hundred and sixteen slides of Foraminifera from the Lias and Fuller's Earth of Somerset.

Forty-five slides of Foraminifera from the Pliocene of St. Erth, Cornwall.

Various Invertebrata.—About seven hundred fossil Invertebrata from India, Russia, and Britain, collected by the late Prof. J. F. Blake.

Invertebrata chiefly from the Mesozoic rocks of S.W. England, selected from the Thomas Mead Collection.

Two hundred Invertebrata from the Cretaceous of Lebanon.

Plantæ.—Carboniferous plants from S.W. England, from the Thomas Mead Collection.

A polished block of Carboniferous petrified plant-remains from Littleborough, Lancashire.

Fossil plants from the Culm of North and West Devon (Rogers Collection).

Oligocene plants from Tárrega, Lérida, Spain, collected by Don Francisco Clua.

The total acquisitions are as follows:—

A.—VERTEBRATA :

By Bequest	-	-	-	-	-	180
„ Donation	-	-	-	-	-	434
„ Purchase	-	-	-	-	-	495
„ Exchange	-	-	-	-	-	240
						———— 1,349

B.—INVERTEBRATA :

By Bequest	-	-	-	-	-	3,984
„ Donation	-	-	-	-	-	4,175
„ Purchase	-	-	-	-	-	27,120
„ Exchange	-	-	-	-	-	445
						———— 35,724

C.—PLANTÆ :

By Bequest	-	-	-	-	-	69
„ Donation	-	-	-	-	-	30
„ Purchase	-	-	-	-	-	126
						———— 225

D.—ROCK SPECIMENS :

By Donation	-	-	-	-	-	16
						———— 16

TOTAL Acquisitions for 1907 = 37,314

VIII.—*Visitors and Students.*

The number of visits paid to the Department by students and other persons for the purpose of consultation or study during 1907 was 5,544.

IX.—*Lectures and Demonstrations.*

Five parties were received in the Galleries of the Department of Geology, and demonstrations were given as follows:—

February 20.—The Surveyors' Institute (20 members); Dr. Woodward.

March 2.—The Geologists' Association and the Battersea Field Club (89 members); Dr. Woodward.

March 9.—The Students' Association for North London (25 members); Dr. Woodward.

June 15.—North London Church Union and Natural History Society (14 members); Dr. Andrews.

September 27.—Geological Society of London, Centenary Celebration (39 members); Dr. Woodward and Staff.

Arthur Smith Woodward.

DEPARTMENT OF MINERALOGY.

Research.

During the past year the morphological and optical investigation of the new red silver minerals from the Binnenthal, Switzerland, has been completed, and a full description of the physical and chemical characters of these species has been prepared and published.

A large series of mineral-specimens from the new lead and zinc mines at Broken Hill in North-Western Rhodesia has been examined. Sixteen species of minerals have been determined, and a detailed physical and chemical investigation has been made of various phosphates of zinc, including hopeite and two new species which have been established, viz., parahopeite and tarbuttite.

The chemical examination of the new mineral strüverite has been continued, and its relation to ilmenorutile has been the subject of investigation.

Various minerals formed during the eruption of Vesuvius in April 1906 have been examined. In this connection the crystallographic and optical constants of the new mineral chlormanganokalite have been determined, and chlornatrokalite has been proved to be a mixture of sylvite and halite.

The crystallographic examination of minerals from Bolivia has been continued, and descriptions of many species have been prepared for publication.

Various minerals from Cornwall, including phenakite, anglesite, caledonite, heulandite and fahlerz, have been examined and determined.

Crystallographic measurements have been incidentally made on various other species, including idocrase, kunzite, monazite, schwartzembergite, sylvanite, seligmannite, tenantite, thorite, topaz, whewellite and zircon.

In the course of a critical examination of the faceted stones in the Collection, the refractivity has been determined of specimens of sapphire, ruby, emerald, aquamarine, phenakite, beryllonite, hiddenite, kunzite, chrysoberyl, olivine, quartz, axinite, andalusite, epidote, euclase, diopside, idocrase, opal, hessonite, pyrope, cordierite, enstatite, tourmaline and benitoite.

Specimens of "re-constructed" ruby and spinel have been optically and chemically examined.

A microscopic examination has been made of a collection of 280 rock-specimens from South Africa.

In the chemical laboratory two quantitative analyses have been made of strüverite, four of ilmenorutile, one of tennantite, three of hopeite, two of tarbuttite, and one of parahopeite, while determinations of titanate acid have been made for a specimen of ilmenorutile from Evje, Norway, and for four specimens of ferriiferous rutile. Experiments have also been made on the separation and determination of niobium, tantalum, zirconium and titanium. Further, many doubtful minerals have been qualitatively analysed.

Museum Publication.

Report on the Rock-specimens collected during the "Discovery" Antarctic Expedition, 1901-4: by G. T. Prior, M.A., D.Sc., F.G.S.

Independent Publications.

Apart from the official publications issued by the trustees, the following papers, etc., relative to specimens in the collection, or to mineralogical theory and method, have been published during the year by members of the staff of the Department.

Note on "Feather-ore": identity of "Domingite" (= "Warrenite") with Jamesonite: by L. J. Spencer, M.A., F.G.S.

Notes on some Bolivian Minerals (Jamesonite, Andorite, Cassiterite, Tourmaline, etc.): by L. J. Spencer, M.A., F.G.S.

A (fourth) list of new mineral names: by L. J. Spencer, M.A., F.G.S.

Ilmenite from Jacupiranga, Brazil: by G. F. Herbert Smith, M.A., D.Sc., F.G.S.

Red Silver minerals from the Binnenthal, Switzerland: by G. F. Herbert Smith, M.A., D.Sc., F.G.S., with analyses by G. T. Prior, M.A., D.Sc., F.G.S.

A new model of Refractometer: by G. F. Herbert Smith, M.A., D.Sc., F.G.S.

Baddeleyite from Ceylon: by G. S. Blake, A.R.S.M., B.Sc., F.C.S., and G. F. Herbert Smith, M.A., D.Sc., F.G.S.

Miscellaneous.

During the year the large collection of minerals, comprising about 3,000 specimens, collected by the late Miss Caroline Birley, was removed to the Museum and examined. According to the terms of the bequest of Miss Birley, the Museum was allowed a first selection from this fine collection, and 439 specimens were chosen for the General Collection, and 460 specimens for the formation of a series that should be available for students.

The preparation of slip-catalogues of species has been continued. This work has been completed for the arsenides and sulphides (including the large series of blende, galena,

copper glance, and cinnabar) as far as nagyagite, and for the haloid division from sylvite to iodyrite inclusive, while many of the specimens exhibited in the case-tops have been rearranged on trays that have been repolished and lined with fresh wool. At the same time, old specimens hitherto bearing numbers referring only to special catalogues have been entered in the General Register, and permanent labels giving all available information have been written for each specimen. Further, a slip-list has been prepared of all the specimens in the crystal-collection.

The reserve collections of galena, sartorite, jamesonite, miargyrite, calaverite, tetrahedrite, salt, etc., have been extended into drawers previously occupied by specimens of British rocks which have now been transferred to cases in the Pavilion.

An exhibit of models of the "Cullinan" and other famous diamonds has been placed in the Central Hall.

The work of fitting the doors of the cases in the Gallery with link-plates has been finished.

Seventy-eight boxes of mineral-specimens have been received, unpacked and examined; seventy-nine boxes have been packed and despatched.

One hundred and sixty-two thin slices of rocks have been prepared.

Departmental Library.

To the Departmental Library have been added continuations of 30 periodicals (in 403 parts), 48 volumes of separate works, 88 pamphlets, 21 parts of works, 6 maps, 30 plates of photographs, and 51 mining and survey reports; of these, 9 periodicals (in 130 parts), 23 volumes of separate works, 84 pamphlets, and all the mining and survey reports were acquired by presentation or transfer. All of them, including 919 plates, have been registered and stamped.

Three new book-cases with 327 feet of shelf-space have been fitted up in the S.E. Basement corridor, and 841 volumes have been removed to the shelves.

Students.

The number of visits recorded as made to the Department for the purposes of consultation or study is 855.

The Gallery being no longer reserved on particular days of the week for use by students, and study-series having been so arranged as to be directly accessible to the public, and so labelled as to render reference to the staff for information thereon almost completely unnecessary, it has become difficult to distinguish, for statistical purposes, "Students" of minerals from ordinary "Visitors," and stress can no longer be laid on the distinction.

Exchanges.

An exchange of specimens has been made with the Calne Secondary School, Wilts, through Mr. C. Williams.

Accessions.

1,420 specimens have been acquired, namely:—

1,014 minerals, 399 rocks, and 7 meteorites. All of them have been registered, numbered, and incorporated with the Collection.

The more important of them are as follows:—

*Minerals.**By Presentation:*

Minerals from the new lead and zinc mines of Broken Hill, North-Western Rhodesia, including fine crystallised specimens of hopeite and of the new minerals parahopeite and tarbuttite, with descloizite, cerussite and pyromorphite: by P. C. Tarbutt, Esq.

Faceted and uncut specimens of "reconstructed" ruby and spinel: by E. Hopkins, Esq.

Diamond, sapphire, topaz, garnet and chrysoberyl; from Rhodesia: by G. FitzGibbon, Esq.

A collection of Chilian minerals: by Señor A. E. Guerra.

Hamlinite, gorceixite and harttite; from Brazil: by Dr. E. Hussak.

Celestite and aragonite from Girgenti, Sicily: by F. N. A. Fleischmann, Esq.

Sapphires from Montana: by The New Mine Sapphire Syndicate through G. A. Wells, Esq.

Clinoclasite, tyrolite, pharmacosiderite, and conichalcite from Utah, pitchblende from Colorado, and cassiterite from Bolivia: by Dr. R. Pearce.

Cinnabar, large twinned crystals: by H. A. Cousins, Esq.

Harmotome from co. Wicklow, linarite from Cornwall, and other examples of British minerals: by Arthur Russell, Esq.

Hausmannite, blende, chalybite, fluor, &c., from the North of England: by L. J. Spencer, Esq.

Witherite with barytes, from the North of England: by C. Pugh, Esq., and Siddell Watson, Esq.

Fine twinned crystals of fluor from Weardale, Durham: by J. Thompson, Esq. and T. Maddison, Esq.

Scorodite from Carrock Fell, Cumberland: by W. Hemingway, Esq.

By Bequest :

A selection of 439 specimens of various minerals from the large collection formed by the late Miss Caroline Birley. These include an extremely fine series of zeolites from the Faroe Islands, Iceland, and co. Antrim; fine crystals of fluor and witherite from the North of England; large, clear crystals of rhodochrosite from Colorado; a large crystal of emerald in the matrix from Russia; and a fine star ruby, mounted in a ring.

By Purchase :

A group of exceptionally large crystals of ilmenite from Norway.

Palladic gold, beryl, tourmaline cat's-eye, raceted aquamarine, and a large botryoidal mass of fibrous baddeleyite, from Brazil.

Polybasite from Mexico.

Pale-blue crystals of apatite from Switzerland.

Of fine specimens of American minerals may be mentioned: doubly-terminated crystals of tourmaline, benitoite, pink beryl enclosing rubellite, corroded beryl, cinnabar, large crystals of stibiotantalite, beautiful violet crystals of kunzite, and crystals of topaz from California; twinned crystals of herderite from Maine; lustrous red crystals of realgar from Utah; well-developed crystals of calomel from Texas; rhodochrosite, wolfram, columbite, and brilliant crystals of iron pyrites, from Colorado.

A peculiar crystal of boracite, composed of two interpenetrating parts, from Hanover.

Tennantite, containing zinc, from the Binnenthal, Switzerland.

Large crystals of cerussite of peculiar habit, in galena, and a specimen of sammetblende, from Bohemia.

Fine crystals of lorandite from Macedonia.

A large silver nugget, weighing 622 grams.

A group of colourless, tabular crystals of apatite from Spain.

Native copper and embolite, from Broken Hill, New South Wales.

A large mass of tantalite with stibiotantalite from Western Australia.

A group of large crystals of andorite from Bolivia.

An interpenetrating twinned crystal of diamond, and an octahedron of diamond on boart.

A polished slab of smaragdite from Burma.

A series of minerals formed during the eruption of Mt. Vesuvius in April 1906; including specimens of chlormanganokalite and chlornatrokalite.

A large series of exceptionally fine crystals of calcite, barytes, fluor, etc., from the North of England.

A series of well crystallised specimens of cerussite, hemimorphite, tarbuttite, hopeite, etc., from Broken Hill, North-Western Rhodesia.

A further series of specimens from the collection of the late Professor A. A. Damour; including crystals of anatase and twinned crystals of rutile from Brazil, and large twinned crystals of cassiterite from Morbihan, France.

The following mineral names added to the Museum List were previously not represented by specimens in the Collection:—

Aerugite, arsenbleinierite, benitoite, blomstrandine, brostenite, cathkinite, chlormanganokalite, chlornatrokalite, davidite, gorceixite, harttite, hollandite, kallilite, michaelite, moravite, moronite, parahopeite, paravivianite, patronite, priorite, purpurite, quiroguite, sefströmite, tarbuttite, vanthoffite.

Rocks.

By Presentation :

A collection of rock-specimens from the cataracts of the Rivers Madeira, Beni and Mamoré, S. America: by Dr. J. W. Evans.

A small collection of rock-specimens from near Kengtung, China: by G. A. Durie, Esq.

A collection of rock-specimens from South Cornwall: by Dr. G. T. Prior.

Pink dolomitic marble from Oronsay Island, Argyleshire: by Captain D. McNeill.

Andesites from Chili: by Professor H. E. Orrego.

Garnet-rocks from Orange River Colony: by E. H. V. Melvill, Esq.

A small collection of rock-specimens from the Lipari Islands: by W. Child, Esq.

Picrite from Devonshire: by J. Chudleigh, Esq.

A small collection of rock-specimens from Central Africa: by C. Storey, Esq.

Peridotite from Island of Harris: by Rt. Hon. Viscount Fincastle.

Rock-specimens from Mt. Demavend, N. Persia: by Colonel A. C. Bailward.

Globigerina Limestone from Cyprus: by A. J. Jukes Browne, Esq.

Schistose Serpentine from the Cottian Alps: by Rev. T. G. Bonney, F.R.S.

By Purchase:

Specimens of trachytic rocks from Haddington.

A polished slab of graphic granite from Madagascar.

A small collection of rock-specimens from Cornwall.

A collection of lavas, bombs, volcanic dust, etc., from Vesuvius (chiefly from the eruption of April 1906).

A collection illustrating various mineral-enclosures in basalt, chiefly from the Finkenbergl, Rhenish Prussia.

Specimens of banded sandstone from Montana.

Meteorites.

By Presentation:

Kangra Valley, Punjab, India; a stone weighing 395 grams: by Professor W. N. Hartley, F.R.S.

Cold Bokkeveld, South Africa; fragments weighing 56 grams: by Professor M. H. N. Story-Maskelyne, F.R.S.

By Exchange:

Adare, Limerick; a fragment weighing 47 grams.

By Purchase:

Santa Rosa, Colombia; a slice weighing 996 grams.

Cobija, Desert of Atacama; a slice weighing 252 grams.

Elm Creek, Kansas; a piece weighing 912 grams.

El Incamass, Chili; a slice weighing 6,235 grams.

Those Meteorities of which the names are italicized belong to falls hitherto unrepresented in the Museum Collection.

L. Fletcher.

DEPARTMENT OF BOTANY.

I.—*Arrangement and Conservation.*

During the past year 49,500 specimens have been incorporated with the Herbarium. This number includes 21,100 Flowering Plants, 2,406 Vascular Cryptogams, 216 Mosses, 53 Hepatics, 2,139 Lichens, 58 Algæ, and 1,528 Fungi, in all 27,500 specimens, which have been mounted and incorporated; together with 13,000 specimens of Algæ in the Batters Collection which were already well mounted on sheets similar to those in use in the Herbarium, 3,000 mounted microscopic slides of Algæ (Batters Collection), and 6,000 mounted microscopic slides of Diatoms (Rylands Collection).

Flowering Plants.—Collections have been mounted and incorporated as follows:—From Japan, Corea, and Formosa by Faurie (in part), from Central China by Wilson, from Thibet by Younghusband, from the Cameroons by Zenker, from Angola by Gossweiler (in part), from South Africa by Schlechter, from Mexico by Purpus. Collections from the Malay Peninsula, Singapore, and Borneo by Ridley, from Gunong Tahan by Robinson, from Uganda by Bagshawe, from Mt. Ruwenzori by Wollaston, from Rhodesia by Eyles and Swynnerton, and from Chili by Middleton, Scott Elliot and Philippi, have been wholly or in part named, mounted, and incorporated. The revision of the plants collected by Banks and Solander in New Zealand has been completed.

In the division Polypetalæ additions have been made by incorporation, especially in the orders Menispermaceæ, Tiliaceæ, and Meliaceæ (specimens from Herb. Miers); Caprifoliaceæ, Polygalaceæ, and Simarubaceæ (chiefly specimens from Herb. Hance); Caryophyllaceæ (Indian and American); Ranunculaceæ, Zygophyllaceæ, and Guttiferæ (Indian); Crassulaceæ, Anacardiaceæ, and Cucurbitaceæ (African); and Leguminosæ (various collections). Work of revision and rearrangement has been done in the orders Anonaceæ, Sterculiaceæ, and Leguminosæ (African), Geraniaceæ (North American), Sapindaceæ (Malayan), Saxifragaceæ and Rosaceæ, and in the genera *Modecca*, *Rhyncosia* (South African), *Viola* (European), *Combretum* (African), *Acridocarpus* and *Elæocarpus* (Malayan), *Lepidium*, *Oxalis*, and *Begonia*.

In the division Gamopetalæ additions have been made by incorporation, especially in the orders Rubiaceæ, Oleaceæ, Campanulaceæ, Apocynaceæ, Bignoniaceæ and Scrophulariaceæ, and work of revision and rearrangement has been done in the orders Compositæ (especially North American

genera) *Styracæ*, *Sapotacæ*, *Cyrtandracæ*, and *Convolvulacæ*, and in the genus *Calceolaria*.

In the division *Apetalæ* work of incorporation has been done especially in the orders *Chenopodiaceæ*, *Euphorbiaceæ*, and *Podostemaceæ* (Indian).

In the *Monocotyledons* work of incorporation has been done chiefly in the orders *Gramineæ*, *Aroideæ*, *Liliacæ*, *Amaryllidaceæ*, and *Iridacæ*, and work of revision in the *Palmaceæ* and *Orchidaceæ*.

Work of incorporation and revision has been done in the *British Herbarium*.

A large accumulation of North and South American duplicates has been sorted and arranged, for purposes of exchange.

Ferns.—Additions have been made by incorporation in the following orders and genera, *Cyatheaceæ*, *Schizæaceæ*, *Ophioglossaceæ*, *Lycopodiaceæ*, *Selaginellaceæ*, *Gleichenia*, *Davallia*, *Hymenophyllum*, *Trichomanes*, *Asplenium*, *Aspidium*, *Nephrodium*, *Nephrolepis*, and *Equisetum*, and in the *Hydropterideæ*; work of rearrangement has been done in the genera *Nephrodium* and *Platyserium*; the specimens collected by Cuming in the Philippines have been revised, and the specimens collected by Robinson in Gunong Tahan have been determined.

Bryophyta.—Work of incorporation has been done in several genera of Mosses, and work of revision on the Mosses of New Zealand and Japan, and on the British specimens of several genera of *Hepaticæ*.

Algæ.—The Batters herbarium and collection of microscopic slides, and the Rylands collection of diatoms have been incorporated; and work of determination and revision has been done in several genera of siphonaceous *Algæ*, on *Algæ* from the Indian Ocean and the Danish West Indies, and in the *Characæ*.

Fungi.—Work of incorporation has been done chiefly in the *Hyphomycetes* and *Discomycetes*, and in the genus *Puccinia*; the British *Fungi* have been rearranged according to recent monographs, and the sorting of specimens and drawings in the Phillips collection has been continued, and the drawings of *Discomycetes* and *Uredineæ* have been mounted and incorporated.

Lichens.—Progress has been made with the revision of the British *Lichens*, and the extra-European *Lichens* in Crombie's collection have been sorted and labelled.

Exhibition Series.—Progress has been made with the representation of the orders of *Dicotyledons* in the large wall-cases in the public gallery, with the exhibition of a series of British *Lichens*, and with the selection and preparation of specimens and drawings for an exhibition of

British Hepatics. An exhibition illustrating variation at different altitudes in *Polygala Amarella*—a British plant with a very restricted distribution, and an exhibition of Lichens from Southern Chili, have been prepared and placed in the public gallery; and specimens, with drawings, of a British hybrid Orchid, and a specimen of the Australian Blackboy (*Xanthorrhæa arborea*) have been added. Progress has been made with the exhibition illustrating British-grown Trees in the Central Hall, and some time has been devoted to the completion of the exhibition illustrating the flower, fruit, and seed of the Dicotyledons. An exhibition of Memorials of Linnæus has been arranged in honour of the bicentenary of the birth of the great Swedish Naturalist, and a guide to it has been prepared.

Catalogues.—Progress has been made with the preparation of the second edition of Mr. Arthur Lister's *Monograph of the Mycetozoa*; with the second volume, by Miss A. Lorrain Smith, of Crombie's *Catalogue of British Lichens*; and with a *Synopsis of British Basidiomycetes*, based on the MSS. and drawings of Mr. Worthington G. Smith. All three volumes are going through the press.

II.—Publications.

Guide to the books, specimens, and portraits exhibited in the Central Hall to commemorate the bicentenary of the birth of Linnæus (Memorials of Linnæus) by Dr. Rendle.

List of British Seed-plants and Ferns. By Dr. Rendle and Mr. Britten.

Apart from the official publications issued by the Trustees, the following relating to the collections have appeared:—

General report upon the Botanical Results of the Third Tanganyika Expedition, conducted by Dr. W. A. Cunnington, 1904 and 1905. By Dr. Rendle. (Journal of Linnean Society.)

Notes on the "List of British Seed-Plants," I. and II. By Dr. Rendle and Mr. Britten. (Journal of Botany.)

Note on *Thrinicia nudicaulis*. By Mr. Britten. (Journal of Botany.)

The "Illustrations of Australian Plants" (Bibliographical Note). By Mr. Britten. (Journal of Botany.)

Notes on Halorrhagaceæ. By Mr. Britten. (Journal of Botany.)

Note on *Cephalanthera longifolia* Fritsch. By Mr. Britten. (Journal of Botany.)

Notes from the National Herbarium, I. By Mr. Britten. (Journal of Botany.)

Overlooked plants described by Schreber. By Mr. Britten. (Journal of Botany.)

Revision of the Genus *Bersama*. By Mr. Baker. (Journal of Botany.)

A new *Limonia* from Uganda. By Mr. Baker. (Journal of Botany.)

New species of Malvaceæ. By Mr. Baker. (Bulletin of the New York Botanic Garden, Vol. iv.)

Alabastra Diversa, pt. xiv. By Mr. Spencer Moore. (Journal of Botany.)

Notes on some Tropical African Rubiaceæ. By Mr. Spencer Moore. (Journal of Botany.)

Marine Algæ. (Phæophyceæ and Florideæ.) By Mr. and Mrs. Gepp. (National Antarctic Expedition, Vol. iii.)

Fungi new to Britain. By Miss A. Lorrain Smith (with Mr. Carleton Rea). (Trans. Brit. Mycolog. Soc.)

Notes on British Rubi. By Dr. E. Gilbert. (Journal of Botany.)

British Roses of the *mollis-tomentosa* Group. By Rev. Augustin Ley. (Journal of Botany.)

Observations on *Sarracenia*. By Dr. J. M. Macfarlane, Professor of Botany, University of Philadelphia, U.S.A. (Journal of Botany.)

Oxalis corniculata and its Allies. By Dr. B. L. Robinson, Curator of the Gray Herbarium, Harvard University, U.S.A. (Journal of Botany.)

Donax and *Schumannianthus*. By Mr. R. A. Rolfe, Herbarium, Royal Gardens, Kew. (Journal of Botany.)

III.—*Exchanges of Duplicates.*

Exchanges have been effected with the Royal Gardens, Kew; the Botanic Gardens, Sydney; the Botanic Gardens, Singapore; the Royal Botanic Gardens, St. Petersburg; the Hofmuseum, Vienna; the Botanic Museum, Zurich; the New York Botanic Garden; the Missouri Botanic Garden; the Botanic Garden, Buitenzorg, Java; J. F. Cheeseman, Esq., the Auckland Museum, New Zealand; and Oswald Sargent, Esq., York, West Australia.

IV.—*Loan of Specimens.*

Fifty-seven unnamed specimens of Characeæ have been lent for determination to Henry Groves, Esq.

V.—*Departmental Library.*

The additions during the past year have been, by donation, 35 volumes, 103 pamphlets; by purchase, 135 volumes,

5 pamphlets—in all 170 volumes, 108 pamphlets. These include 17 periodicals, in 132 parts, presented, and 74 periodicals, in 648 parts, purchased—in all 91 periodicals in 780 parts.

153 volumes have been bound. The correspondence relating to the Rylands collection of Diatoms and including the Walker Arnott correspondence has been arranged and placed in the Library; and the pamphlets and MSS. contained in the Crombie Lichen-collection have been catalogued and indexed. The collection of tracts has been arranged on shelves.

Work of incorporation and revision has been done in the general collection of drawings of specimens, especially in the incorporation of the large collection of original water-colour drawings of Indian plants, made by Dr. Fleming. The classification and arrangement for binding of the large collection of notes and drawings by R. A. Salisbury has been completed. Indexes have been prepared of various books and collections. New book-shelves have been added in the Cryptogamic herbarium. Duplicate books and pamphlets have been distributed to the Royal Gardens, Kew, the Linnean Society, and the Botanic Gardens, Singapore.

VI.—*Acquisitions.*

The following additions have been made to the collections by presentation:—396 Phanerogams from Uganda, from Dr. A. G. Bagshawe; 245 Phanerogams and 30 Cryptogams from Rhodesia, from F. Eyles, Esq.; 126 specimens from Uganda, from Mrs. Sybil M. Tufnell; 38 specimens from the Soudan, from the Director of Woods and Forests, Kartoum; 200 specimens from Gazaland, from C. F. M. Swynnerton, Esq.; 50 specimens of Umbelliferæ and Compositæ, and 43 Monocotyledons from Algeria, from M. A. Joly Elbahy; 48 specimens from South Africa, from Rev. F. A. Rogers (in return for naming); 23 specimens from Lake Kivu, Central Africa, from Dr. Wollaston; 10 specimens from Uganda, from E. Brown, Esq.; 10 specimens from Fayoum, from Dr. W. A. Cunningham; 5 specimens from South Africa, from Dr. H. Bolus; 14 specimens of Podostemaceæ from India, from J. C. Willis, Esq.; 4 specimens from Garhwal, from Dr. T. G. Longstaff; 2 specimens of *Wissadula* from Brazil, from R. Fries; 50 specimens of plants from W. Australia, collected by W. V. Fitzgerald, from F. S. Brockman, Esq.; 4 specimens of *Eremophila*, etc., from Australia, from Prof. A. J. Ewart; 390 specimens from Chili, Brazil, and the Falkland Islands, from R. Morton Middleton, Esq.; 2 specimens of orchids from Jamaica, from the Hon. W. Fawcett; 3 specimens of *Ophrys*, from Hyères, from H. S. Thompson, Esq.; 2 specimens of flowering plants from Rev. W. Moyle Rogers; 64 specimens of garden plants for exhibition from the Royal Gardens, Kew; 3 specimens of cultivated plants from Hon. Walter Rothschild, M.P.; specimens of fossil seeds of *Najas marina*

and *N. minor* from Clement Reid, Esq. ; 2 fruits of *Martynia* from A. E. Stearns, Esq. ; 3 specimens of cultivated orchids from Sir Trevor Lawrence ; 4 specimens of cultivated orchids from J. O'Brien, Esq. ; 2 specimens of *Silene*, from W. B. Paulson, Esq. ; specimens of *Alsophila* from Fiji, from Miss M. Benson ; specimens of a tropical moss, *Calymperes*, recently discovered in Europe, near the fumaroles of Pantellaria, from Dr. Emilio Levier ; 2 species of *Halimeda* and 3 specimens of *Avrainvillea* from the Paumotu Archipelago, from M. P. Hariot ; some large specimens of Laminariaceæ from the Eastern Telegraph Company's cable near Gibraltar, from V. K. Cornish, Esq. ; a Japanese species of *Ecklonia*, from Prof. F. O. Bower ; 11 species representing 4 genera of Lithothamnia from the Indian Ocean, collected during the "Sea-lark" Expedition, from J. Stanley Gardiner, Esq. ; specimens of *Cladocephalus*, a new genus of Algæ from the West Indies, from Mr. Marshall A. Howe ; 161 Characeæ from the herbarium of T. F. Allen, from the New York Botanical Garden ; and single specimens from Sir W. Strickland, Dr. Grunman, F. Moore, Esq., Christopher J. Alexander, Esq., Mrs. P. Hoare, E. M. Holmes, Esq., Dr. P. L. Selater, Mrs. Paris, Messrs. R. T. Turnbull, Prof. R. J. Harvey Gibson, and T. D. A. Cockerell, Esq.

The additions to the British Herbarium by presentation have been :—3 specimens from Dr. C. Vigers ; 229 specimens from Rev. E. S. Marshall ; 72 specimens from Rev. H. J. Riddelsdell ; 2 specimens from John D. Young, Esq. ; 4 specimens from A. B. Jackson, Esq. ; 3 specimens of introduced plants from W. B. Allen, Esq. ; 7 specimens from Clement Reid, Esq. ; 2 specimens from W. Whitehead, Esq. ; 10 specimens of Rubi, &c., from Prof. D. Oliver ; 4 specimens from James Groves, Esq. ; 10 rare British Hepaticæ from Symers M. Macvicar, Esq. ; and single specimens from Henry Peirson, Esq., H. A. Britten, Esq., C. H. Spencer Percival, Esq., H. Beeby, Esq., W. R. Sherrin, Esq., V. K. Cornish, Esq., and J. Saunders, Esq.

Among the acquisitions by presentation special reference may be made to the collection of Diatoms formed by the late Thomas Glazebrook Rylands, of Warrington, and presented by his daughter, Miss Martha G. Rylands. It consists of about 6,000 microscope-slides in cabinets, and includes the collection of the late Dr. Christopher Johnson, of Lancaster, bequeathed to Mr. Rylands. It was formed more than 40 years ago, when great activity was manifested in the study of Diatomaceæ ; and the two most active students of the group, Prof. G. Walker Arnott and Prof. R. K. Greville, and their more important correspondents are represented by numerous letters included in the collection.

The following additions have been made by exchange of duplicates :—1,100 specimens from Brazil, Central Asia, Russia, etc., from the Director, Royal Botanic Gardens,

St. Petersburg; 494 Phanerogams and 12 Cryptogams from Singapore, Siam, etc., from the Director of the Botanic Gardens, Singapore; 37 specimens of *Coprosma* from New Zealand, from J. F. Cheeseman, Esq.; 308 specimens from South Africa, collected by R. Schlechter, from the Director of the Botanic Museum, Zurich; 395 specimens from Tibet and 94 specimens from tropical Africa, from the Director, Royal Gardens, Kew; 56 specimens from Jamaica, from the Director of the New York Botanic Garden; 138 specimens from Australia, from the Director of the Botanic Garden, Sydney; 626 specimens from Texas, collected by Lindheimer, from the Director of the Missouri Botanic Garden; 56 specimens from Java, from the Director of the Buitenzorg Botanic Garden; 100 Kryptogamæ Exsiccatae, from the Hofmuseum, Vienna; 13 specimens of West Australian Orchids, from Oswald Sargent, Esq., York, West Australia.

The principal purchases during the year were:—200 specimens "Flora Stiriaca Exsiccata," fasc. 7-10, from Hayek; 273 specimens "Plantæ Paraguarienses," from Dr. Hassler; 227 specimens from South Bolivia, collected by Fiebrig, from Dr. R. Pilger; 200 specimens of Dörfler's Herb. Normale, Cent. 47 & 48, from Dulau & Co.; 370 Phanerogams and 82 Cryptogams from New Caledonia, collected by R. Schlechter, from Dr. Loesener; 109 Phanerogams and 6 Cryptogams from Tucuman, Argentina, collected by Dr. L. Dinelli, from W. F. H. Rosenberg; 980 Phanerogams and 107 Cryptogams from Japan, from Rev. U. Faurie; 299 Phanerogams and 10 Cryptogams from Mexico, from C. G. Pringle; 62 specimens "Gramineæ Exsiccatae" (Fasc. xxi., xxii.), and 40 specimens Cyperaceæ (Fasc. vi.), from Kneucker; 179 specimens from Cameroons, collected by Zenker, from Dr. E. Gilg; 440 specimens, including 31 Vascular Cryptogams from Mexico collected by Dr. Purpus, from Dr. T. S. Brandege; 50 specimens "Salicetum Exsiccatum" (Fasc. vii.), collected by Toepffer, from Dulau & Co.; 20 Phanerogams and 20 Cryptogams from West Indies, from W. E. Broadway; 50 specimens "Batotheca Europæa" (Fasc. v.), from H. Sudre; 176 Phanerogams and 23 Cryptogams from Lydia and Caria, and 40 Phanerogams and 50 Cryptograms from North Persia, and 52 specimens from West Persia, collected by Dr. Strauss, from J. Bornmüller; 59 Phanerogams and 1 Cryptogam from Transkei, S. Africa, from Miss A. Pegler; 200 North American Fungi, from Bartholomew; 200 German Fungi, from Sydow; 100 Uredineæ and 25 Ustilagineæ, from Sydow; 100 Fungi Imperfecti, from Kabát and Bubák; 75 Ascomycetous Fungi, from Rehm; 150 Westphalian Fungi, from Brinkmann; 50 Fungi Selecti, from Jaap; 100 Micro-Fungi, from Vestergren; 53 British Micro-Fungi, and 36 microscope-preparations, from Miss A. L. Smith; 40 Lichens of North England, from Rev. W. Johnson; 813 Bavarian Lichens, from Britzelmayer; 20 rare European Lichens, from Zahlbruckner; 1,214 coloured drawings of Lichens, prepared by the late Dr.

R. Deakin and illustrating his Lichen-herbarium, which was presented to the Department in 1889, from Hutchinson; 76 Marine Algæ of South Australia, from Mrs. Harold; 100 North American Algæ from Collins, Holden, and Setchell; 40 microscope-preparations of Diatoms and 105 of Fresh-water Algæ and Peridiniæ from material collected by Dr. W. A. Cunnington in the East African Lakes, from West; 1,007 microscope-preparations of British Mosses, from Sherrin; 50 Mosses of Malay Archipelago, from Fleischer; 20 North American Hepaticæ, from Haynes; 424 Mosses and Hepatics of India, 74 of Japanese Islands, 143 of British New Guinea, 50 of Tasmania, 132 of Guatemala, from Levier; 59 Mosses of France, from Husnot; 100 Mosses of South Europe, from Fleischer and Warnstorf; 125 Cryptogams of Germany, Austria, and Switzerland from Migula; 116 coloured drawings of Scottish Cryptogams by Greville, from Parritt.

Among the acquisitions by purchase special mention should be made of the collection of Marine Algæ made by the late E. A. L. Batters, consisting of more than 10,000 British and 3,000 foreign specimens, and more than 3,000 microscope-preparations. The slides add much to the facilities for studying the Algæ; and the whole collection affords a good representation of the work done in recent years towards ascertaining the distribution of the species around the coasts of the British Islands.

VII.—*Demonstrations.*

Demonstrations on the collections have been given by Mr. Britten to 27 members of the Geologists' Association on March 16th, and to 9 members of the Battersea Field Club on November 9th; and on the exhibition of Memorials of Linnæus by Dr. Rendle to members of the Selborne Society, and of the Ealing Science and Microscopical Society, on November 23rd.

VIII.—*Students and Visitors.*

The number of visits to the Department for consultation and research during the year was 2,245. Numerous specimens and small collections have been named by the staff for visitors and correspondents.

A. B. Rendle.

BRITISH MUSEUM.

RETURN to an Order of the Honourable The House of Commons,
dated 25 February 1909 ;—*for*,

COPY “of Account of the INCOME and EXPENDITURE of the BRITISH MUSEUM (SPECIAL TRUST FUNDS) for the Year ending the 31st day of March 1909; and, RETURN of the Number of PERSONS admitted to visit the MUSEUM and the BRITISH MUSEUM (NATURAL HISTORY) in each Year from 1903 to 1908, both Years inclusive; together with a STATEMENT of the PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and an ACCOUNT of OBJECTS added to them in the Year 1908.”

Treasury Chambers, }
20 April 1909. }

C. HOBHOUSE.

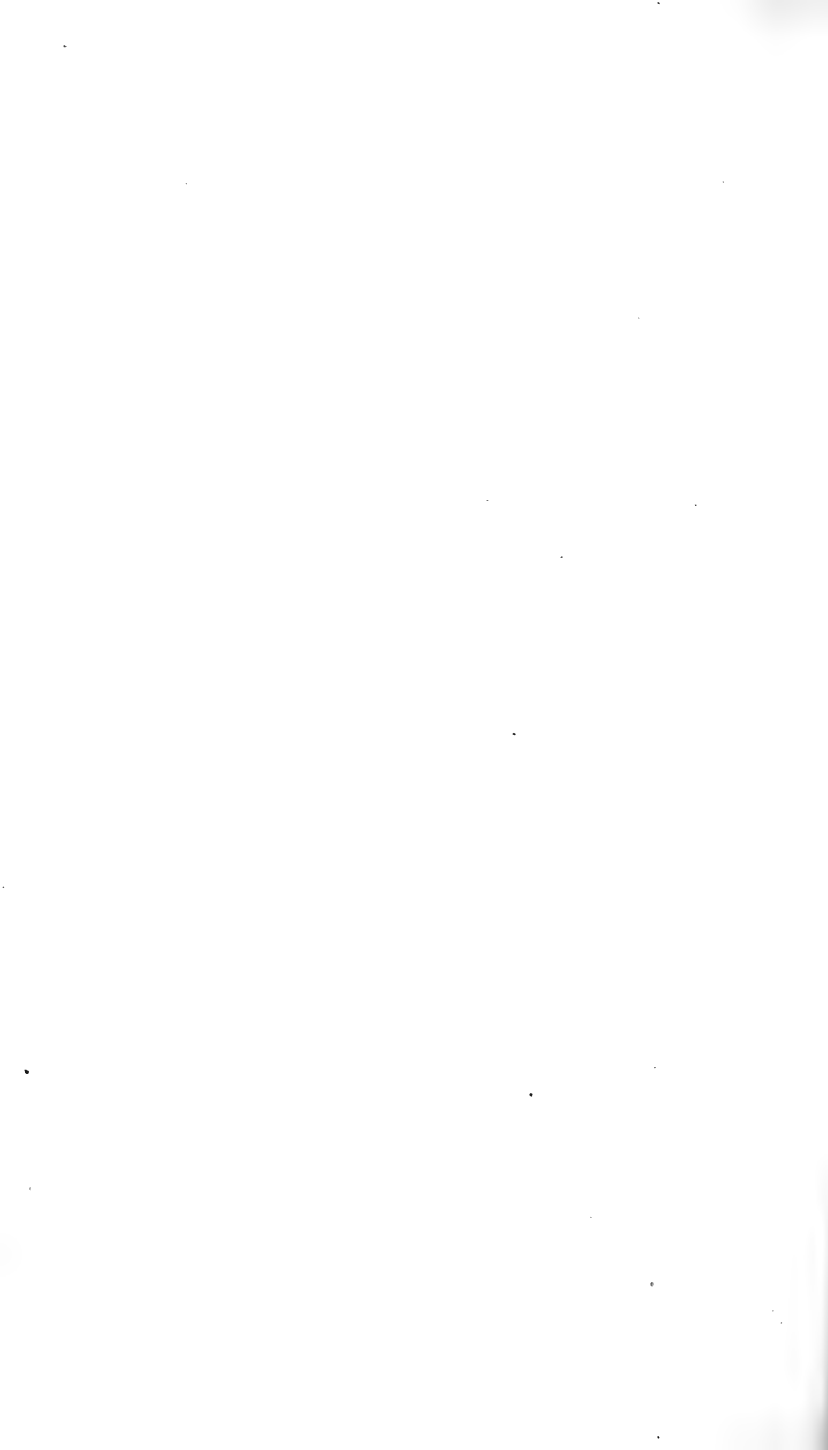
(*Mr. Butcher.*)

Ordered, by The House of Commons, to be Printed,
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I.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.			STOCK, 2½% Consols.		
	£.	s.	d.	£.	s.	d.
To BALANCES on the 1st April 1908 - - -	171	2	7	13,598	3	11
- DIVIDENDS received on 13,598 <i>l.</i> 3 <i>s.</i> 11 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by the Earl of Bridgewater, viz.:						
On the 6th April 1908 - £. 84 19 9						
" 6th July 1908 - - 84 19 9						
" 5th October 1908 - 84 19 9						
" 5th January 1909 - 84 19 9						
			339	19	0	
- RENT OF A REAL ESTATE, Whitchurch, bequeathed by the Earl of Bridgewater (less charges of collection, repairs, &c.) - - -			39	0	0	
	£.		550	1	7	13,598 3 11

II.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.			STOCK, 2½% Consols.		
	£.	s.	d.	£.	s.	d.
To BALANCES on the 1st April 1908 - - -	126		7	2,879	10	7
- DIVIDENDS received on 2,879 <i>l.</i> 10 <i>s.</i> 7 <i>d.</i> Stock in 2½ per Cent. Consols, be- queathed by Lord Farnborough, viz.:						
On the 6th April 1908 - £. 17 19 11						
" 6th July 1908 - - 17 19 11						
" 5th October 1908 - 17 19 11						
" 5th January 1909 - 17 19 11						
			71	19	8	
	£.		198	6	3	2,879 10 7

BRIDGEWATER FUND, from the 1st April 1908 to the 31st March 1909.

	CASH.	STOCK, 2½ % Consols.
	£. s. d.	£. s. d.
By One Year's SALARY of the Egerton Librarian -	175 - -	
- AMOUNT expended on purchase of Manuscripts -	58 18 0	
- BALANCES ON THE 31ST MARCH 1909, carried to Account for 1909-1910 -	316 3 7	13,598 3 11
£.	550 1 7	13,598 3 11

FARNBOROUGH FUND, from the 1st April 1908 to the 31st March 1909

	CASH.	STOCK, 2½ % Consols.
	£. s. d.	£. s. d.
By AMOUNT expended on purchase of Manuscript -	64 11 3	
- BALANCES ON THE 31ST MARCH 1909, carried to Account for 1909-1910 -	133 15 0	2,879 10 7
£.	198 6 3	2,879 10 7

III.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.		STOCK, 2½ % Consols.	
	£.	s. d.	£.	s. d.
To BALANCES on the 1st April 1908 - - -	54	8 9	5,683	1 6
- DIVIDENDS received on 5,683 <i>l.</i> 1 <i>s.</i> 6 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Dr. George Swiney for Lectures on Geology, viz.:				
On the 6th April 1908 - - £. 35 10 4				
" 6th July 1908 - - 35 10 4				
" 5th October 1908 - - 35 10 4				
" 5th January 1909 - - 35 10 4				
		142 1 4		
	£.	196 10 1	5,683	1 6

IV.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of

	CASH.		STOCK, 2½ % Consols.	
	£.	s. d.	£.	s. d.
To BALANCE on the 1st April 1908 - - -	—		565	3 9
- DIVIDENDS received on 565 <i>l.</i> 3 <i>s.</i> 9 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Dr. Birch in 1766, for the three Under Librarians of the British Museum, viz.:				
On the 6th April 1908 - - - £. 3 10 8				
" 6th July 1908 - - - 3 10 8				
" 5th October 1908 - - 3 10 8				
" 5th January 1909 - - 3 10 8				
		14 2 8		
	£.	14 2 8	565	3 9

SWINEY FUND, from the 1st April 1908 to the 31st March 1909.

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
BY AMOUNT paid to Dr. R. F. Scharff, for Lectures on Geology in 1908 - - - - -	140 - -	
- BALANCES ON THE 31ST MARCH 1909, carried to Account for 1909-1910 - - -	56 10 1	5,683 1 6
£.	196 10 1	5,683 1 6

the BIRCH FUND, from the 1st April 1908 to the 31st March 1909.

	CASH.	STOCK, 2½% Consols
	£. s. d.	£. s. d.
BY LEGACY paid to the three Under Librarians of the British Museum, whose offices existed in 1766, viz., the Keepers of the Departments of Printed Books, Manuscripts and Natural History - - - - -	14 2 8	
- BALANCE ON THE 31ST MARCH 1909, carried to Account for 1909-1910 - - -	-	565 3 9
£	14 2 8	565 3 9

V.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest and Extension of the Library and Reading Room of the British

	CASH.	LOCAL LOANS STOCK.
	£. s. d.	£. s. d.
To AMOUNT of Local Loans Stock on 1st April 1908	—	54,903 19 5
- DIVIDENDS received during the year	1,665 17 2	
- AMOUNT of Local Loans Stock purchased with the Dividends	—	1,681 10 7
£.	1,665 17 2	56,585 10 0

VI.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest
1st April 1908 to

	CASH.	METROPOLITAN 3½% STOCK.
	£. s. d.	£. s. d.
To AMOUNT of Metropolitan 3½ per cent. Stock on 1st April 1908	—	7,824 8 7
- DIVIDENDS received during the year	277 6 11	
- AMOUNT of Metropolitan 3½ per cent. Stock purchased with the Dividends	—	268 10 8
£.	277 6 11	8,092 19 3

of the late MR. VINCENT STUCKEY LEAN (for the Improvement Museum) from the 1st April 1908 to the 31st March 1909.

	CASH.	LOCAL LOANS STOCK.
	£. s. d.	£. s. d.
BY AMOUNT expended in the purchase of 1,681 <i>l.</i> 10 <i>s.</i> 7 <i>d.</i> Local Loans Stock, Commission, &c. - - - - -	1,665 17 2	
- BALANCE OF STOCK ON THE 31ST MARCH 1909 carried to account for 1909-1910 - - - - -	—	56,585 10 0
—£.	1,665 17 2	56,585 10 0

of the late MR. CHARLES DRURY EDWARD FORTNUM from the the 31st March 1909.

	CASH.	METROPOLITAN 3½% STOCK.
	£. s. d.	£. s. d.
BY AMOUNT expended in the purchase of 268 <i>l.</i> 10 <i>s.</i> 8 <i>d.</i> Metropolitan 3½ per cent. Stock, Commission, &c. - - - - -	277 6 11	
- BALANCE OF STOCK ON THE 31ST MARCH 1909 carried to account for 1909-1910 - - - - -	—	8,092 19 3
—£.	277 6 11	8,092 19 3

E. Maunde Thompson,
Director and Principal Librarian.

VII.—NUMBER of PERSONS ADMITTED to VISIT the BRITISH MUSEUM and the BRITISH MUSEUM (NATURAL HISTORY).

A.—PERSONS Admitted to View the GENERAL COLLECTIONS in the British Museum in each Year from 1903 to 1908, both Years inclusive.

	1903.		1904.		1905.		1906.		1907.		1908.	
	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.
January	61,276	2,458	74,185	3,622	71,905	3,965	54,267	3,146	48,297	3,143	44,498	1,959
February	56,153	3,617	62,945	3,834	59,212	3,513	44,034	3,432	43,522	3,775	43,488	3,788
March	58,572	6,499	65,136	4,967	68,136	5,545	44,010	4,871	45,298	6,807	42,739	7,014
April	82,342	6,372	84,667	5,907	88,755	8,897	61,298	6,664	54,485	6,020	70,302	7,460
May	65,207	7,483	72,706	6,153	65,143	6,002	52,000	4,918	50,036	5,009	46,840	6,881
June	81,232	5,524	65,980	4,483	71,619	5,327	55,551	4,569	43,238	7,071	50,615	5,256
July	86,011	5,309	74,591	5,136	62,396	6,492	56,513	6,404	48,799	6,152	66,035	7,992
August	90,534	7,565	89,089	4,948	79,875	4,976	71,325	5,613	72,023	5,184	90,251	12,313
September	68,748	5,890	83,673	6,640	67,891	5,780	50,615	6,769	43,485	7,050	75,929	7,658
October	73,944	5,233	77,805	5,806	49,502	6,566	55,847	5,008	48,678	5,669	55,854	6,013
November	61,877	4,086	69,058	3,051	28,392	3,422	46,621	3,110	44,577	3,890	41,041	5,615
December	72,904	2,012	77,864	2,305	38,726	1,622	41,531	3,234	40,141	3,761	41,497	2,375
Total Number of Persons admitted to view the General Collections.	858,800	62,048	897,699	56,852	751,552	62,107	634,212	57,738	582,779	63,521	669,089	74,324
	920,848		954,551		813,659		691,950		646,300		743,413	

NUMBER OF VISITS OF STUDENTS TO PARTICULAR DEPARTMENTS.

	1903.	1904.	1905.	1906.	1907.	1908.
To the Reading Room	209,713	226,323	214,940	212,997	137,682	231,544
" Newspaper Room	23,648	22,053	21,857	19,723	20,098	19,019
" Map Room	313	297	286	281	281	296
" Department of Manuscripts	10,291	10,469	10,623	11,414	11,854	12,370
" Department of Oriental Printed Books and Manuscripts.	2,594	3,595	3,552	3,313	3,286	2,270
" Print Room	9,484	8,383	8,614	8,396	8,590	8,990
" Egyptian and Assyrian Department	2,750	2,900	2,750	2,668	2,550	3,100
" Greek and Roman Department	592	740	574	600	428	457
" Galleries of Sculpture	3,462	2,985	2,985	1,758	1,206	1,614
" British and Mediaeval Department	2,445	2,514	1,905	2,995	3,254	3,267
" Coin and Medal Room	4,495	4,223	4,411	4,365	4,191	4,293
Total	269,787	284,432	272,497	268,510	193,420	287,220

The British Museum, Bloomsbury (including the Departments of Printed Books and Maps, Manuscripts, Oriental Printed Books and Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, Greek and Roman Antiquities, British and Mediæval Antiquities and Ethnography, and Coins and Medals), is open to the public free daily (except on Good Friday and Christmas Day and days of Public Fast or Thanksgiving), as follows :—

On WEEKDAYS from 10 a.m. to 6 p.m.

After 4 p.m. in January, February, November, December, and after 5 p.m. in March, September, October, only certain of the galleries remain open, viz. :—

On MONDAYS, WEDNESDAYS, and FRIDAYS.	}	Exhibitions of Manuscripts, Printed Books, Prints and Drawings, Porcelain, Glass and Majolica; Prehistoric, British, Anglo-Saxon, Mediæval and Ethnographical Collections.
---	---	--

ON TUESDAYS, THURSDAYS, and SATURDAYS.	}	Egyptian, Assyrian, Greek and Roman Galleries (exclusive of the Vase Rooms and Bronze Room); the Gold Ornament Room, the American Room, and the Waddesdon Room.
---	---	---

On SUNDAY AFTERNOONS :—

From 2 to 4	p.m. in	January, February, November, December.
" 2 " 5	" "	October.
" 2 " 5.30	" "	March, September.
" 2 " 6	" "	April, May, June, July, August.

Persons applying for the purposes of research and reference are admitted to the Reading Room under certain regulations every weekday, except the days specified below, from 9 a.m. until 7 p.m. The Newspaper Room is open, under similar regulations, from 10 a.m. until 5 p.m.

The Reading Room, Newspaper Room, and Students' Rooms in the Library and Department of Manuscripts are closed on Sundays, Good Friday, Christmas Day, and the first four weekdays in March and September.

Other Students' Rooms are closed on Sundays, Good Friday, and Christmas Day, and occasionally for cleaning.

Students are admitted generally to the several Departments on weekdays, from 10 till 4 or 5 o'clock; and to the Sculpture Galleries from 9 o'clock till the hour of closing.

British Museum, }
31 March, 1909. }

E. Maunde Thompson,
Director and Principal Librarian

B.—PERSONS ADMITTED TO VIEW THE COLLECTIONS IN THE BRITISH MUSEUM (NATURAL HISTORY), CROMWELL ROAD, in each Year from 1903 to 1908, inclusive.

	1903.		1904.		1905.		1906.		1907.		1908.	
	Weekdays.		Weekdays.		Weekdays.		Weekdays.		Weekdays.		Weekdays.	
	Sundays.	Sundays.	Sundays.	Sundays.	Sundays.	Sundays.	Sundays.	Sundays.	Sundays.	Sundays.	Sundays.	Sundays.
January	24,720	2,617	43,394	4,758	39,655	3,933	35,413	3,622	30,598	2,979	22,626	2,459
February	22,099	4,662	26,900	5,481	23,614	4,445	25,960	4,227	26,846	4,250	24,253	5,117
March	24,049	7,419	28,790	6,138	33,156	5,406	27,682	5,454	33,865	7,539	29,361	6,990
April	59,546	5,853	56,671	6,418	60,418	7,071	44,218	6,929	58,220	7,394	61,990	7,157
May	28,800	6,823	36,952	6,466	43,423	8,290	32,020	5,942	47,095	6,147	33,866	6,435
June	41,440	5,827	32,022	4,887	66,124	7,455	42,840	4,380	37,105	7,144	46,159	4,941
July	36,949	6,040	28,540	4,499	36,663	6,948	32,969	6,279	32,093	5,741	42,531	5,788
August	51,044	7,346	43,554	5,178	57,812	6,206	49,279	5,811	49,158	5,954	61,603	9,277
September	32,619	4,966	30,685	5,796	35,916	6,370	29,810	6,683	31,014	6,166	45,899	6,193
October	31,626	4,171	23,689	5,929	33,263	6,793	37,739	5,354	33,618	5,722	32,124	5,235
November	33,466	4,504	24,941	3,203	32,477	3,709	28,799	3,276	25,714	3,736	24,741	4,107
December	37,187	2,960	33,500	2,156	33,758	3,458	24,677	3,194	25,744	3,595	26,404	2,287
Total Number of Persons admitted to view the Natural History Collections (including students)	423,545	63,188	409,048	60,909	496,229	70,084	411,406	61,151	431,070	66,367	451,057	65,986
	486,733		470,557		566,313		472,557		497,437		517,043	

NUMBER OF VISITS TO PARTICULAR DEPARTMENTS for the purpose of Study.

	1903.	1904.	1905.	1906.	1907.	1908.
Zoology	-	11,824	11,811	10,813	11,043	10,220
Geology	-	4,854	4,968	4,171	5,544	5,803
Mineralogy	-	909	994	867	855	987
Botany	-	2,358	1,989	2,065	2,245	2,315
Total	-	19,945	19,712	17,916	19,687	19,325

The Exhibition Galleries of the British Museum (Natural History), Cromwell Road, South Kensington, including the Departments of Zoology, Geology and Palæontology, Mineralogy, and Botany, are open to the public, free, daily, except Good Friday and Christmas Day, and days of Public Fast or Thanksgiving.

The hours of Admission are as under:—

On WEEKDAYS, throughout the year from 10 a.m., in						
January	-	-	-	-	-	to 4 p.m.
February 1st to 14th	-	-	-	-	-	„ 4.30 „
February 15th to end	-	-	-	-	-	„ 5 „
March	-	-	-	-	-	„ 5.30 „
April to August	-	-	-	-	-	„ 6 „
September	-	-	-	-	-	„ 5.30 „
October	-	-	-	-	-	„ 5 „
November and December	-	-	-	-	-	„ 4 „

also, on MONDAYS and SATURDAYS only, from the beginning of May to the middle of July, to 8 p.m., and from the middle of July to the end of August, to 7 p.m.

On SUNDAYS, in

January	-	-	-	-	from 2	to 4	p.m.
February 1st to 14th	-	-	-	-	„ 2	„ 4.30	„
February 15th to end	-	-	-	-	„ 2	„ 5	„
March	-	-	-	-	„ 2	„ 5.30	„
April	-	-	-	-	„ 2	„ 6	„
May to August	-	-	-	-	„ 2.30	„ 7	„
September	-	-	-	-	„ 2	„ 5.30	„
October	-	-	-	-	„ 2	„ 5	„
November and December	-	-	-	-	„ 2	„ 4	„

Persons are admitted to study in these Departments every weekday from 10 till 4 o'clock.

British Museum (Natural History), } *E. Maunde Thompson,*
 27 February, 1909. } Director and Principal
 Librarian.

VIII.—GENERAL PROGRESS AT THE MUSEUM, BLOOMSBURY.

The total number of visits by the public to the Museum during the year 1908 was 743,413; the number of visits on week-days being 669,089, and on Sundays 74,324. The total shows an improvement on the numbers of the last two years, the total being 646,300 in 1907, and 691,950 in 1906. But it is still far behind the large numbers of 1903 to 1905.

The total number of visits by readers to the Reading Room was 231,544, giving a daily average of 761, as against a total of 212,997 in 1906 (a comparison with the numbers of 1907 not being practicable, as the room was closed for renovation during six months of that year).

The number of visits of Students to particular Departments (other than the Reading Room) in 1908 was 55,676, showing scarcely any variation from the total of 55,738 in 1907. There has been a decrease in the number of visitors to the Newspaper Room and the Department of Oriental Printed Books and Manuscripts, but, on the other hand, an increase in the number of visits to the Departments of Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, and in the Sculpture Galleries.

A contract for building the new boiler-house in connection with the British Museum Extension was entered into during the autumn, and the work is still in progress. With this exception no building operations have been undertaken in connection with the new wing in Montague Place.

Fire-resisting divisional walls have been built in the roof of the Western and Southern Galleries of the Museum, and provision has been made for continuing the work in other sections of the roof.

An iron building for the accommodation of casts from the antique, which were recently transferred from the Victoria and Albert Museum, has been erected, and the arrangement of the casts is in progress.

Among the more important additions to the several Departments during the year, the following may be specially noticed:—

In the Department of Printed Books 80 English books printed before the year 1640 have been added to the library and include works from the presses of Julian Notary, Richard Pynson, Wynkyn de Worde, and Thomas Berthelet. The "Pars Hiemalis" of the York Breviary, printed by F. Regnault, of Paris, in 1533, and two copies of the Salisbury Primer, the one printed by T. Kerver, of Paris, in 1510, and the other by N. le Roux, of Rouen, in 1537, are among the most important of these books. Sixty-four Incunabula (books printed before 1501) have been acquired, including the "Pars Aestivalis" of the Strassburg Breviary, printed on vellum in 1478.

In the Department of Manuscripts have been received under the will of the late Miss Harriet C. Plowden the original autographs of a Sonata by Beethoven and of nine Quartettes by Mozart. The late Sir Thomas Brooke, Bart., of Armitage Bridge, Huddersfield, has bequeathed a Latin Psalter written in gold, with a portrait of the Emperor Lothaire, A.D. 840-855, and three Chartularies of Cockersand Abbey, co. Lanc., 1268, and of Selby Abbey and Fountains Abbey, co. York, of the 14th and 15th centuries. Valuable manuscripts have been acquired from the collection of the late Sir Thomas Phillipps and include Royal Wardrobe account-books of the reign of Edward I., legal Year-Books from Edward I. to Henry V., and some interesting Jacobite letter-books.

The Department of Oriental Printed Books and Manuscripts has added to its valuable Arabic collection some further manuscripts of the 14th and later centuries, and to its Chinese collection some rare printed works.

The Department of Prints and Drawings has acquired some interesting drawings of the French and English Schools, and has added choice specimens of Japanese wood-cuts to its collection. It is also indebted to Sir Hickman Bacon, Bart., for a further gift of Japanese prints. Among modern examples, attention may be drawn to the collection of proofs of wood-cuts executed by Swain from designs by recent English artists.

The Department of Egyptian and Assyrian Antiquities has acquired, in addition to some valuable specimens of the Early and Middle Egyptian Empires, a series of stelae of the Late Empire (p. 57) which are not strongly represented in the Museum. Among the Assyrian acquisitions is a fine collection of engraved cylinder-seals dating from the Babylonian to the Persian period.

Among the additions to the Department of Greek and Roman Antiquities attention may be drawn to a bronze statuette of a negro boy, Graeco-Roman work of the best period, presented by Mr. W. C. Alexander.

The Department of British and Mediaeval Antiquities has received by gift from Sir John Brunner and Sir Henry Howorth an important series of implements of the Bronze and Early Iron Ages, and a series of early German antiquities, chiefly from Hohenzollern and the Swiss Lakes, collected by Mr. H. Edelmann of Sigmaringen. The Department is also indebted to Lord Alington for the gift of tessellated Roman pavements from Wimborne, co. Dorset; and to Messrs. Yamanaka for two Chinese bronze figures, one of colossal size, of fine workmanship. A fine Sassanian silver dish has also been purchased. Among the Ethnographical accessions is to be noted a very important series of objects from the Congo Free State, collected in the course of the expedition under the leadership of Mr. E. Torday; and this series has been supplemented by a further collection from the same source, presented by the Christy Trustees.

The most important addition to the Department of Coins and Medals is the collection of coins of Phœnicia and Judæa brought together by Mr. Leopold Hamburger. To the mediæval section has been added a fine series of silver German bracteates of the 12th century. Mr. Max Rosenheim has presented a collection of Dutch, Flemish, German and French jetons of the 16th and 17th centuries; and the National Art Collections Fund has given a specimen of the rare silver medal of the Holy Trinity, made for Maurice, Duke of Saxony, by Hans Reinhardt, in 1544.

Gifts of Museum publications, including reproductions of prints and drawings by Old Masters, and sets of electrotypes of British Historical Medals, have been made to Free Libraries, Local Museums, and Art Schools throughout the United Kingdom, and to institutions in various Colonies.

The following are the publications issued by the Departments at Bloomsbury during the year:—

Cuneiform Texts from Babylonian Tablets, etc., in the British Museum. Part XXIV. 1908. Foolscap, 10s.

Catalogue of Roman Pottery in the British Museum. By H. B. Walters. 1908, 4to., 2*l.*

Excavations at Ephesus: The Archaic Artemisia, by D. G. Hogarth. 1908. Atlas, folio: Text, 4to. 2*l.* 10s.

Catalogue of the Imperial Byzantine Coins in the British Museum. By W. W. Wroth. In two volumes. 1908. 8vo., 2*l.* 15s.

Catalogue of the Indian Coins: Coins of the Andhra Dynasty, the Western Kṣatrapas, the Traikūtaka Dynasty and the "Bodhi" Dynasty. By E. J. Rapson. 1908. 8vo., 2*5s.*

Medallic Illustrations of the History of Great Britain and Ireland. Part VIII. Plates LXXI.—LXXX. Part IX. Plates LXXXI.—XC. 1908. Folio, 6s. each part.

Catalogue of Books printed in the XVth Century, now in the British Museum. Part I. Xylographica, and Books printed with types at Mainz, Strassburg, Bamberg and Cologne. 1908. 4to., 1*l.* 15s.

Catalogue of Printed Books. Excerpt. "Cervantes." 1908. 4to., 1*s.* 6*d.*

Supplementary Catalogue of Sanskrit, Pali and Prakrit Books in the British Museum, acquired during the years 1892—1906. By L. D. Barnett. 1908. 4to., 3*l.* 5s.

Catalogue of Manuscript Music in the British Museum. By A. Hughes-Hughes. Vol. II. Secular Vocal Music. 1908. 8vo., 1*l.* 15s.

Reproductions from Illuminated Manuscripts. Series III. 50 collotype plates. 1908. 4to., 5s.

John Milton, 1608—1674. Facsimiles of Autographs and Documents in the British Museum. 1908. Folio, wrapper, 1*s.*

Catalogue of Engraved British Portraits in the British Museum. By F. M. O'Donoghue. Vol. I., A-C. 1908. 8vo., 17. 1s.

Reproductions of Prints. Third Series. Part II. (Specimens of Etching by Italian Masters, 1525-1550.) 25 plates. 1908. 2l.

A Guide to the Exhibition Galleries of the British Museum (Bloomsbury). Eighth edition, revised. With plans. 1908. 8vo., 2d.

A Guide to the Egyptian Collections in the British Museum. With 53 plates and 180 illustrations. 1908. 8vo., 1s.

A Guide to the Babylonian and Assyrian Antiquities in the British Museum. 2nd edition, revised and enlarged. With 45 plates and 45 illustrations. 1908. 8vo., 1s.

A Guide to the Department of Greek and Roman Antiquities in the British Museum. With illustrations, maps and plans. 3rd edition. 1908. 8vo., cloth, 1s. 6d.; paper, 1s.

A Guide to the Exhibition illustrating Greek and Roman Life. 1908. 8vo., 1s. 6d.

A Guide to the Sculptures of the Parthenon in the British Museum. 1908. 8vo., 1s.

British Museum,
31 March, 1909.

E. Maunde Thompson,
Director and Principal Librarian.

IX.—PROGRESS made in the ARRANGEMENT AND DESCRIPTION OF THE COLLECTIONS, AND ACCOUNT OF OBJECTS ADDED TO THEM in the Year 1908 (Bloomsbury).

DEPARTMENT OF PRINTED BOOKS.

I. *Arrangement*.—The works added to the collection during the past year have, as far as possible, been placed on the shelves of the Library according to the system of classification adopted in the Museum.

The press-marks, indicating their respective localities, have been marked on the inside and affixed to the back of each volume.

The total number of these press-marks amounts to 70,220; in addition to which 112,185 press-marks have been altered, on books and in the catalogues, in consequence of changes and re-arrangements carried out in the Library; 38,497 labels have been affixed to volumes of newspapers, and 121,725 obliterated labels have been renewed.

The number of stamps impressed upon articles received is 451,491.

4,310 presses of books and newspapers have been dusted in the course of the year.

II. *Catalogues*.—*Cataloguing*.—45,934 titles have been written (the term "title" applying equally to a main-title and to a cross-reference) for the General Catalogue and for the Catalogues of Maps and Music.

Printing.—33,884 titles and index-slips for the General Catalogue, and 3,132 for the Map Catalogue, have been prepared for printing during the year; and 32,927 titles and index-slips for the General Catalogue, 3,126 for the Map Catalogue and 15,507 for the Music Catalogue, have been printed.

Reprinting.—348 columns, including the headings Austria (52 cols.), Cervantes (72 cols.), and Wright (105 cols.), have been revised, rearranged, and reprinted during the year. The reprint of the heading Cervantes was issued as an excerpt.

Incorporation.—*General Catalogue*.—33,730 titles and index-slips have been incorporated into each of three copies of this Catalogue. This incorporation has rendered it necessary, in order to maintain as far as possible the alphabetical arrangement, to remove and re-insert 44,364 titles and index-slips in each copy and to add to each copy 900 new leaves.

The system of fortnightly incorporation of accessions to the Library has been carried out with perfect regularity during the past year.

Map Catalogue.—4,191 titles have been written for the Map Catalogue, and 1,144 title-slips have been incorporated into each of three copies of it. This incorporation has rendered it necessary to remove and re-insert 2,802 title-slips in each copy and to add to each copy 165 new leaves.

Music Catalogue.—13,815 titles have been written for the Music Catalogue, and 15,019 title-slips have been incorporated into each of two copies of it. This incorporation has rendered it necessary to remove and re-insert 27,690 title-slips in each copy of it and to add to each copy 581 new leaves.

Shelf Catalogue.—For this Catalogue, in which the title-slips, mounted on cards, are arranged in order of press-marks, 30,194 have been so mounted and 57,250 have been incorporated in their proper order.

Catalogue of Books of Reference in the Reading Room.—A new and enlarged edition of the Catalogue of Books in the Reference Library, comprising those on the ground-floor and in the two galleries of the Reading Room, is in course of preparation.

Catalogue of Books printed during the XVth Century.—Part I. of this Catalogue, dealing with block books and with books printed at Mainz, Strassburg, Bamberg, and Cologne, has been completed and published. Part II., which will complete the descriptions of the German series, is in course of preparation.

III. *Binding.*—The number of volumes and sets of pamphlets sent to be bound in the course of the year was 13,012, including 4,322 volumes of newspapers. In consequence of the frequent adoption of the plan of binding two or more volumes in one, the number of volumes returned was 11,958; in addition to which 90 volumes have been repaired in the binders' shops.

Besides this, the following binding work has been done in the Library itself:—3,722 volumes have been repaired; 276 broadsides, &c., have been inserted in guard-books, and 5,421 volumes of reports, parts of periodicals, &c., have been bound in a light style of binding.

The following maps, charts, &c., have also been bound or mounted during the year:—38 atlases, 80 volumes of the 25-inch Ordnance Survey and 6 volumes of the 5-foot scale Ordnance Survey of Towns have been bound, and 48 Ordnance Survey Indexes have been mounted; in addition, 314 general maps have been mounted on linen, and 154 on cards, and 25 portfolios and 28 boxes have been made to contain the maps.

32,743 numbers of Colonial Newspapers have been folded into 594 parcels, and 587 such parcels have been tied up and labelled preparatory to being bound.

Five volumes of the Blue Copy, 9 volumes of the Red Copy, and 19 volumes of the Green Copy of the General Catalogue, have been broken up and rebound in 65 volumes. Thirty-nine columns have been relaid, owing to the accumulation of titles under certain headings, as well as 184 columns of reprinted headings, in each of the three interleaved copies of the General Catalogue. In addition, 200 columns of worn headings have been replaced by new columns in the Blue Copy, and 5 worn volumes of this copy have been entirely relaid and rebound in 6 volumes.

IV. *Reading Room Service.*—The number of volumes replaced in the General Library after use in the Reading Room was 773,353; in the King's Library, 25,150; in the Grenville Library, 2,762; in the Map Room, 5,502; in the presses in which books are kept from day to day for the use of readers, 663,887; and in the Oriental Department, 1,521; making a total amount of 1,472,175 volumes supplied to readers during the year, exclusive of those to which readers have personal access on the shelves of the Reading Room.

The number of readers during the year was 231,544, giving an average of over 761 daily, the room having been open on 304 days; with an average of over six volumes daily for each reader.

Newspaper Room.—The number of readers during the year was 19,019, giving a daily average of over 62, the room having been open on 304 days. The number of volumes replaced after use was 64,698, giving a daily average of 212 and of over three volumes to each reader, not reckoning volumes, chiefly Parliamentary Papers, taken from the shelves of the Newspaper Room by the readers themselves. In addition to the above, 1,661 newspapers have been brought to the Library from the Newspaper Repository at Hendon for the use of readers.

Map Room.—296 visitors have made use of the Map Room for the purpose of special geographical research.

Photography.—There have been 396 applications for leave to photograph from books in the Library, and 914 volumes have been supplied to the applicants for this purpose.

V. *Accessions.*—*General Library.*—27,059 books and pamphlets have been added to the General Library in the course of the year. Of these, 6,889 were presented; 13,833 received by Copyright; 525 by Colonial Copyright; 671 by International Exchange; and 5,141 acquired by purchase.

65,036 parts of volumes (or separate numbers of magazines and other serial publications and of works in progress) have also been added to the General Library. Of these, 2,580 were presented; 41,744 received by Copyright; 396 by Colonial Copyright; 726 by International Exchange; and 19,590 acquired by purchase.

Maps.—106 atlases, 97 parts of atlases, and 1,533 maps in 6,884 sheets have been added to the collection during the course of the year. Of these, 20 atlases, 38 parts of atlases, and 556 maps were presented; 33 atlases, 5 parts of atlases, and 818 maps received by Copyright; 8 atlases and 30 maps by Colonial Copyright; and 45 atlases, 54 parts of atlases, and 179 maps acquired by purchase.

Music.—10,445 musical publications have been added to the collection in the course of the year. Of these, 8,135 books and pieces, and 1,644 parts were received by Copyright; 513 pieces by Colonial Copyright; and 63 books and 90 parts acquired by purchase.

Newspapers.—The number of newspapers published in the United Kingdom, received by Copyright during the year, was 3,535, comprising 241,111 single numbers. 1,223 of these newspapers were published in London and its suburbs; 1,786 in other parts of England and Wales and in the Channel Islands; 289 in Scotland; and 237 in Ireland. 13 sets, containing 2,265 numbers, were received by Colonial Copyright; 291 sets, containing 44,867 numbers of Colonial and foreign newspapers, have been presented; and 76 sets, containing 14 volumes and 13,381 numbers of current Colonial and foreign newspapers, have been purchased.

Miscellaneous.—4,380 articles not included in the foregoing paragraphs have been received in the Department. These consist of single sheets, Parliamentary papers, and other miscellaneous items.

The total number of articles enumerated above, as having been received in the Department during the present year, exclusive of newspapers, is 108,706.

Acquisitions of Special Interest.—Eighty English books printed before the year 1640, and sixty-four Incunabula (books printed before the year 1501), have been added to the Library during the year 1908.

Among the English books the most interesting are:—

“Quattuor Sermones.” Printed by Julian Notary, 1499.

“Salisbury Primer.” Printed by Thielman Kerver, Paris, for William Bretton, London, 1510. With seventeen fine woodcuts. Imperfect, wanting the first nine leaves containing the title and calendar, January to August, as well as Sig. B viii. and the last eight leaves. Hoskins mentions three other copies, all imperfect.

Plutarch: “De tuenda bona valetudine precepta Erasmo Roterodamo interprete.” Printed by Richard Pynson, 1513. An undescribed book printed in the Roman type first used by Pynson in the Oration of Petrus Gryphus, Papal Legate to Henry VII., printed in 1509. The work is dedicated by Erasmus to John Young, Warden of New College and Arch-deacon of London. In the original binding, with eight other early books, mostly duplicates.

"Textus Alexandri cum sententiis et constructionibus." Printed by R. Pynson, 1516.

"The Begynnyng and foundacyon of the Hospytall and Order of the Knyghtes hospytallers." Robert Coplande, 1524.

"The Festyvall." Wynkyn de Worde, 1528. A very fine copy.

"The Fruyte of Redempeyon. By the Anker [*i.e.*, Anchorite] of London Wall, wretched Simon." Wynkyn de Worde, 1532.

York Breviary: "Pars Hiemalis." Printed by F. Regnault, Paris, 1533. No other copy is known. The Pars Aestivalis, completing the book, has been in the Museum for many years.

Six Law Books, of which one only is at present in the Library. Printed by Thomas Berthelet between the years 1537 and 1539. Bound together in a contemporary binding.

Salisbury Primer. Printed by Nicholas Le Roux, Rouen, 1537.

Elyot, Sir Thomas: "The Castel of Helth." Printed by Thomas Berthelet, 1539. Hitherto the earliest edition of this work in the Library has been that of 1541.

Sanders, Nicholas: "The Rock of the Church." Louvain, 1567.

"Sernoenen des predicants B. Cornelis Andriaenssen van Dordrecht." Printed by Anthony de Solemne, the first printer at Norwich, 1578. The only other known copy of this book is in the Library of Trinity College, Dublin.

"Of the End of the World." Translated from the Latin of S. A. Geveren by Thomas Rogers. H. Middleton, London, 1582.

"The Arte of Navigation. Written by Martin Cortes. Englished out of Spanishe by Richard Eden." R. Watkins, 1589.

"A Comparison of the English and Spanish nation. Translated out of the French, by R. A." John Wolfe, London, 1589.

Jonson, Ben: "Every Man out of his Humour." Printed by W. Holme, 1600. Two editions of this play were printed in the year 1600, one by W. Holme and the other by N. Ling. Both are now in the Library.

"The Historie of the Life of Thomas, Lord Cromwell, written by W. S., 1602." The first edition of this spurious or doubtful play. It is not included in the first or second Shakespeare folios, but appears in the third folio edition, 1664.

"An historicall description of the most famous Kingdomes and common-weales." John Jaggard, London, 1603.

"Articles of Military Discipline." James Bryson, Edinburgh, 1639.

Laud, Archbishop: a translation into German of Laud's "Funerall Sermon preached by himself on the scaffold on

Tower Hill," 10th January 1645. The date is wrongly given in this tract as 18 January 1645.

Milton, John: "Paradise lost. A Poem in ten books." Printed by S. Simmons, 1669. The purchase of this copy completes the Museum set of the six known issues of the first edition of Paradise Lost, with the exception of the second.

"Memoirs of the siege of Quebec." From the journal of a French officer on board the Chezine Frigate. Translated by Richard Gardiner, Captain of Marines in the Rippon. London, 1761. Only two other copies of this book are known.

Among the foreign Incunabula and later works the following are of special interest:—

"De Proeliis Alexandri Magni." Printed by the "Printer of Dictys," at Cologne, about 1471.

Antoninus: "Confessionale," Printed by Christopher Arnold, Venice, 1473. The book is three years earlier in date than any work of this printer at present in the Library.

Hieronymus de Vallibus: "Jesuida, seu de Passione Christi." Printed by G. Zainer, Augsburg, about 1473.

Johannes de Imola: "In constitutiones Clementinas." Printed by Johann Gensberg, Rome, 1474.

"De Secretis Mulierum." By Henricus de Saxonia or Albertus Magnus. A very fine specimen of conjoint Roman and Gothic types. The printer has not yet been identified, but the book was probably printed at Naples about 1474.

Perottus, Nicolaus: "Grammatica." Printed by Philippus de Lignamine, Rome, 1474.

Bollanus, Dominicus: "De conceptione Mariae Virginis." Printed by Johann of Cologne and Johann Manthen, Venice, 1474 or 1475.

"Sermones Quadragesimales." Printed at the Monastery of SS. Ulrich and Afra, Augsburg, in 1474 or 1475.

The "Institutes" of Justinian. Printed by the Printer "apud Sanctum Marcum," at Rome, 1476.

Valla, Laurentius: "De Lingua Latina." Printed by Joannes Rubeus, Venice, 1476.

Antoninus, Archbishop of Florence: "Summula Confessionalis." Printed by Alfonso Fernandez de Corduba at Valencia, 1477. The fourth book printed in Spain.

Festus, Sextus: "De verborum significatione." Without imprint, Venice, 1477 or 1478.

Strassburg Breviary: "Pars Aestivalis." Printed on vellum in January 1478. A beautiful specimen of German typography. The printing of the book is usually ascribed to Michael Reyser at Eichstadt, but it is almost certainly printed by Georg Reyser, probably at Strassburg.

Bonaventura, Saint: "Devote meditatione sopra la passione." Printed by Leonhard Pachel and Ulrich Scinzenzeler, Milan, 1480.

"*Legenda Aurea.*" Printed by Conrad Winters, Cologne, 1480.

Dati, Agostino: "*Libellus de eloquentia.*" Printed by Johann Parix, Toulouse, about 1480.

A Commentary on portions of Justinian's "*Institutes.*" Printed by Johann Koelhoff, Cologne, 1482.

Guido de Monte Rocherii: "*Manipulus Curatorum.*" Printed by Johannes Walbeck, Bologna, 1482. The work of a printer hitherto unrepresented in the Library.

Romuleus, Paulus: "*Apologia pro Georgio Merula.*" Venice, 1482.

Rudolphinus de Passageriis: "*Summa Artis Notarie.*" Printed by B. de Benaliis, Venice, 1485.

Perez, Jacobus: "*Expositio canticorum ferialium,*" 1484.—"*Expositio cantici Augustini,*" 1485.—"*Expositio super cantica evangelica,*" 1485. Printed at Valencia by an unidentified printer, probably Alfonso Fernandez de Corduba.

Francisci, Michael: "*Quodlibet de veritate fraternitatis Rosarii.*" Printed by Gerard Leeu, Antwerp, about 1485. "*De psalterio beate Virginis exempla.*" Printed by Gerard Leeu, Antwerp, about 1485. Two books bound together.

Cicero: "*De Officiis.*" Printed by Baptista de Tortis, 1486.

Bernardus de Gordonio: "*Tractatus de Urinis.*" Printed by Andreas Gallus, Ferrara, 1487.

Pompilius, Paulus: "*Syllabae.*" Printed by Eucharius Silber, Rome, 1488.

Henricus de Gorichem: "*Conclusiones super IV. Libros Sententiarum Petri Lombardi.*" Printed by Johann Trechsel, Lyons, about 1489.

"*Stella Clericorum.*" Printed by Heinrich Quentell, Cologne, about 1490.

Colonna, Egidio: "*In libros de anima Aristotelis expositio.*" Printed by Christopherus de Canibus, Pavia, 1491.

Virgil: Works, printed by Liga Boaria, Venice, about 1491. The work of a printer hitherto unrepresented in the Library.

Bernard, Saint: "*Liber Meditationum.*" A Venetian reprint of a book printed at Strassburg in 1492.

Busti, Bernardino de': "*Mariale.*" Printed by Ulrich Scinzenzeler, Milan, 1492.

Juvenal: Works, printed by B. Locatellus, Venice, 1492.

Bonaventura, Saint: "*Stimulus divini amoris.*" Printed by Georg Mittelhus, Paris, 1493.

Diomedes: "*De arte grammatica.*" "*Venetiiis,*" March, 1494. Really printed at Milan by L. Pachel, who published another book with a false Venetian imprint in the following month. With a woodcut and border to the first leaf.

Abraham, ben Samuel Zacuto: "Almanach perpetuum celestium motuum." With the imprint "Opera et arte Magistri Ortas anno 1496 sub celo leyree," and on this ground attributed to the press of Abraham Ortas or Dortas at Leiria, but by some bibliographers considered to have been more probably printed at Venice.

"Itinerarius de J. de Hese a Hierusalem." Printed by R. Pafraet, Deventer, 1499.

Jacobus, de Lenda: "Sermones" (for Advent and Lent). Printed by Felix Baligault for Jean Richard, Paris, 1499. 2 pt.

Apianus, Petrus: "Cosmographia." Printed by Johann Weyssenburger at Landshut, 1524. The first edition, with all the moveable diagrams complete.

"Libro da compagine: Con i tre officii continuali." Florence, 1596. Hitherto there has been in the Library no example of the Service Books of the religious confraternities of Florence. The present book shows marks of use, especially in the Burial Service.

Donations.—Among the many valuable Donations with which the Library has been enriched during the year 1908 are the following:—

"Andreae Alciati de formula Romani Imperii Libellus." Basileae, 1559. This volume contains the editio princeps of Dante's "De Monarchia." *Presented by Paget Toynbee, Esq., D.Litt.*

"Compendio del arbore di Don Roberto Dudleo Duca di Northumbra." [Florence, 1620?] A genealogical tree setting forth the claims of Sir Robert Dudley to the Dukedom of Northumberland. *Presented by His Grace the Duke of Northumberland, K.G.*

Mill, John Stuart: "Principles of Political Economy." 2 vol. London, 1848. This copy contains numerous notes and annotations by John Ruskin. *Presented by the widow of Thomas Thornton, Esq.*

"Newfoundland Parliamentary Reports and Official Documents issued between 1851 and 1898." 47 vol. *Presented by the Government of Newfoundland.*

"Catalogue of the Early Printed Books in the Library of J. Pierpont Morgan." 1907. 3 volumes, folio, sumptuously printed and illustrated with facsimiles. *Presented by J. Pierpont Morgan, Esq.*

Curtis, Edward S.: "The North American Indian: a series of volumes describing the Indians of the United States and Alaska." 1907, etc. Vol. 1 and 2 of the text, and 2 portfolios of plates, being No. 3 of five hundred numbered sets. *Presented by J. Pierpont Morgan, Esq., who proposes to present to the Museum the other volumes of the work as they appear.*

Fry, Frederick M.: "A Historical Collection of the Pictures, Herse-Cloths and Tapestry at Merchant Taylors' Hall, with a List of the Sculptures and Engravings. By F. M. Fry, Master of the Company for 1895-96." Privately printed, 1907. *Presented by the Merchant Taylors' Company.*

"The Gorleston Psalter. A manuscript of the beginning of the fourteenth century in the Library of C. W. Dyson Perrins. Described in relation to other East Anglian books of the period by Sydney C. Cockerell." London, 1907. *Presented by C. W. Dyson Perrins, Esq.*

"Inventaire de l'argenterie conservée dans les garde-meubles des Palais Impériaux. Édition rédigée par le Baron A. de Foelkersam." 2 vol. St. Petersburg, 1907. *Presented by the Imperial Russian Government.*

"The Log of the 'Laura' in Polar Seas, kept by Bettie Fleischmann Holmes." 250 copies privately printed at the University Press, Cambridge, Mass., 1907. *Presented by Mrs. C. R. Holmes.*

"A Bibliography of the Writings of Alfred, Lord Tennyson." Vol. 1. Printed for private circulation. London, 1908. One of ten copies printed on Whatman paper. *Presented by T. J. Wise, Esq.*

"Memorial Rings, Charles the Second to William the Fourth, in the possession of Frederick Arthur Crisp." Privately printed, 1908. *Presented by F. A. Crisp, Esq.*

"The Pageants of Richard Beauchamp, Earl of Warwick. Reproduced in facsimile from the Cottonian MS. Julius E. iv. With an introduction by William, Earl of Carysfort, K.P.," 1908. *Presented by the Rt. Hon. the Earl of Carysfort, K.P.*

"Versuch einer Geschichte von Parga." Prag, 1908. By H. I. and R. H. the Archduke Ludwig Salvator of Austria. *Presented by the Author.*

Maps.—The following are among the most important additions to the collection of Maps during the year 1908:—

Ortelius, Abraham: "Théâtre de l'Univers." Antwerp, 1572. The first edition with the French text.

Ortelius, Abraham: "Teatro del Mondo." Antwerp, 1608. The first edition with the Italian text.

Seven Maps, Plans and Views of Gibraltar between the years 1705 and 1788.

Coloured Plan of the Battle of Ramillies, 23rd May, 1706.

Thirty-one Plans and Views of Quebec between the years 1750 and 1821.

"A Journal of the Siege of Quebec, to which is annexed a correct plan of the environs of Quebec and of the Battle on the 13th September 1759." Only a few copies, one of which is in the "John Carter Brown Library," are known.

Music.—The most interesting accessions to the Musical Library during the year 1908 have been :—

Bandinelli, A. : "Sacrae Modulationes." Book I., complete in 8 pt. Verona, 1585. The only other copy known, in the Royal Library of Berlin, consists of 2 pt.

Diruta, A. : "Salmi a quattro voci." 5 pt. Rome, 1630. No other copy known.

"Canzoni madrigalesche di Benedetto Marcello." Bologna, 1717.

G. K. Fortescue.

DEPARTMENT OF MANUSCRIPTS.

1. *Catalogue of Additions*.—The descriptions of MSS. acquired in 1907 have been printed and have been incorporated in the Class Catalogue kept in the Students' Room.

All the MSS. acquired in 1908, viz. Additional 37629-37772 and Egerton 2874, 2875, have been described and indexed. The descriptions have been revised and are ready for press.

2. *Catalogue of Papyri*.—The preparation of Vol. IV. has been completed, and the volume is now passing through the press. Sheets B-L have been printed off.

3. *Catalogue of the Royal MSS.*—The descriptions of MSS. in the Royal collection have been completed for the new Catalogue, and revised down to 5 A. VI. Eleven hundred and thirty MSS. have been indexed.

4. *Catalogue of Music*.—Vol. II. (Secular Vocal Music) has been issued. The revision of descriptions for Vol. III. (Instrumental Music) has been completed, and the text has been printed off. The revision of the index-slips has been carried as far as page 185 of the sheets.

5. *Catalogue of Romances*.—Sheets B-2 A of Vol. III. have been printed. Six MSS. have been described, and the descriptions of twenty-six MSS. have been revised, for the same volume.

6. *Catalogue of early Additional and Egerton MSS.*—Egerton MSS. 1-17, 31-72 have been described and (with the exception of Nos. 15-17) have been indexed.

7. *Catalogue of Charters*.—Additional Charters 49842-50527, 53092-53115, and 53827-54403 (acquired between 1903 and 1908) have been described and indexed.

The revision of the index-slips of entries relating to topography, religious houses, &c. for Vol. II. of the General Index of Charters has been continued, letters A-S being now ready for press.

8. *Binding*.—One hundred and forty-three Additional MSS. and six Egerton MSS. newly acquired, and sixty-five MSS. of the old collections, have been bound or repaired, together with fifty-eight Books of Reference, collections of Facsimiles, and Catalogues. Twelve Papyri have been bound and glazed.

9. *Verification*.—The entire collection of MSS. has been verified by comparison with the Shelf-Lists, together with a large number of Additional Charters.

10. *Reproductions*.—Series III. of Reproductions from Illuminated MSS. and a small collection of Facsimiles from MSS. relating to John Milton have been prepared and issued.

11. *Exhibitions.*—Special exhibitions have been arranged in connection with the birthday of Shakespeare, the Bicentenary of William Pitt, Earl of Chatham, and the Tercentenary of John Milton, besides smaller exhibitions to illustrate lectures.

12. *Stamping, folioing, and placing.*—One hundred and fourteen Additional MSS., five Egerton MSS., and one hundred and seventy-four Books of Reference have been stamped, forty-two MSS. of the old collections have been restamped, and 8841 Charters have been examined and stamped where necessary, with a total number of 14164 impressions; 1295 numbers have also been impressed upon rubbings.

One hundred and eighty-seven MSS. have been folio'd, with a total of 53742 folios; 2675 Index-slips, etc., have also been numbered.

One hundred and one newly-acquired MSS. and forty MSS. of the old collections have been placed, press-marked, and entered in the Hand- and Shelf-Lists. Five hundred and seventy-eight Charters and Rolls have been placed, and entered in the Inventories. Numbers have been written on 2604 Charters and Rolls. Progress has been made with the re-labelling and re-arrangement of boxes of Add. Rolls. Seals and Casts have been provided with boxes, placed, and entered in the Inventory. The leaden Bullæ have been withdrawn from the Seal-drawers, and will be accommodated in a table-case to be specially constructed. A more effective system of ventilation has been applied to the Seal-tables.

A new Shelf-List of Cupboards and Tables, a new First volume of the Hand-List of Add. Charters, and the Drawer-Lists of Seals have been completed.

13. *Books of Reference.* — One hundred and sixty-eight volumes and parts have been received, catalogued, and placed. Further progress has been made with the preparation of the new Catalogue.

14. *Consultation of MSS.*—35275 MSS. and 5569 Charters and Seals have been consulted in the Students' Room, and two hundred and eleven MSS. in the large Reading Room. The number of Students has been 12370.

Magna Charta was exhibited to 11795 visitors.

15. *MSS. photographed.*—Five hundred and seventy MSS. (including Charters and Seals) were allowed to be photographed, with a total of 3490 photographs taken.

16. *Acquisitions.*—The number of Manuscripts and Documents, etc., acquired during the year has been:—

Additional MSS.	-	-	-	-	-	-	144
Egerton MSS.	-	-	-	-	-	-	2
Charters and Rolls	-	-	-	-	-	-	596
Detached Seals and Casts	-	-	-	-	-	-	37

Two bequests of more than ordinary interest and value were received during the year. Miss Harriet C. Plowden, who died in 1907, bequeathed to the Museum the original autographs of Beethoven's Sonata for violin and pianoforte in G and of nine quartets by Mozart; but, as it was necessary to obtain a legal decision on the question of ownership, they were not actually delivered until November last. The other bequest was from the late Sir Thomas Brooke, Bart., of Armitage Bridge, Huddersfield, and includes four MSS. The most valuable of them is a Latin Psalter written throughout in gold, and containing a portrait of the Emperor Lothaire (840-855) and two other miniatures, with explanatory verses and, among other supplementary matter, a prayer composed apparently by a sister of Lothaire, and mentioning him and other members of her family. The MS. was probably written for this lady or a religious house in which she was interested; as early as the 10th cent. it belonged to the Abbey of St. Hubert in the Ardennes, and it remained there till the French Revolution. To the upper cover is attached a large silver-gilt medallion containing a crowned head in profile in high relief, perhaps of the 9th cent.; and on the lower cover is a fine ivory figure of David, of the 12th cent. An ineffectual attempt was made to secure this volume for the Museum when it was first brought to England in 1876. The other three MSS. for which the nation is indebted to Sir T. Brooke are monastic chartularies, viz., of Cockersand Abbey, co. Lanc., 1268; of Fountains Abbey, co. York, 15th cent.; and of Selby Abbey, co. York, 14th cent.

The most important purchases were made at a sale of a further portion of the great Phillipps Library. In the list of acquisitions, other than those above mentioned, which here follows they include the Royal wardrobe-books, the legal year-books, the valuable series of Jacobite letter-books, and numerous others:—

Accompt of Richard de Bremesgrave as keeper of the King's stores at Berwick; 1298-9.

Wardrobe-accompt of Thomas and Edward, sons of Edward I., aged four and three respectively; Feb.-Nov. 1305.

Wardrobe-accompts of Edward I., including a diet-roll of the royal household and the Comptroller's day-book; Apr.-Nov. 1306.

Bond by Alexander Erskine, Master of Mar, Keeper of Stirling Castle, and others, his sureties, to the Earl of Morton, Regent, for the safe-keeping of James VI. at Stirling Castle, and his education under the Countess of Mar and his pedagogues, George Buchanan and Peter Young; 1572.

“A militarie discourse whether it bee better for England to give an invador present battaile or to temporize and deferre the same”: apparently written about 1590-1595, with special reference to the defence of Kent.

"Rules and orders for regulating Vice Admirals," by the Earl of Warwick, Lord High Admiral, addressed to Col. John More, Vice Admiral for Lancashire and Westmoreland; 12 Apr. 1644. Signed. With other official and private letters and papers of Col. Moore and Edward, his son, 1644-1665.

Book of Accompts of William Derby, Remembrancer of First Fruits, including the names of incumbents, and dates of their admission, death, etc.; 1645-1649.

Letters from Louis XIV., Anne of Austria, and the Princess de Conti to Charles II. on the death of Cardinal Mazarin, etc.; 1660, 1661.

Letter-book of John Drummond, 1st Earl, and titular Duke, of Melfort, Secretary of State to James II., during his embassy to Rome, including letters to James II. and Queen Mary of Modena, the Marquis de Croissy, French Secretary of State, Cardinal d'Este, and various leading Jacobites; 10 Dec. 1689-2 Mar. 1690. The first volume of a series, three other volumes of which are among the Lansdowne MSS. in the Museum.

Letter-book of Henry Brown, afterwards Viscount Montague, Secretary of State to James II. at St. Germain, containing letters received by him from Lord Melfort at Rome, and from various Jacobite agents in France and the Netherlands; Sept. 1690-Sept. 1691.

Letter-book of the Earl of Melfort, containing letters "written to England and Holland" to Jacobite agents and others, chiefly under pseudonyms and with various fictitious signatures; 22 June-31 Dec. 1692.

Letter-book of Sir Paul Rycaut, British Resident at Hamburg, containing his letters to the Secretaries of State and other ministers and to various British agents abroad; 1692-1694.

Letters of William Wogan to Edward Southwell, Secretary of State for Ireland, chiefly relating to bills of the Irish parliament sent over to England for sanction; 1703-1718. Two volumes.

Register of letters of Henry Boyle, Secretary of State, to Charles, Viscount Townshend, ambassador to the Hague; May-June, 1709.

Correspondence of Charles, Viscount Townshend, Secretary of State, chiefly with H. Walpole, ambassador at Paris; 1720-1724.

Newsletters relating to the Jacobite rebellion; Dec. 1745.

Project of Yves Joseph Kerguelen de Trémarec, commanding the local forces of the Département du Nord, for an attack on Newcastle and Sunderland so as to ruin England by paralysing the coal-trade; 1762.

"Signals and Instructions" for the Navy; printed as drawn up (probably by Hawke or under his influence) between 1760

and 1778, with copious MS. alterations and additions signed by Adm. Sir G. B. Rodney and dated at Spithead, 18 Dec. 1779, on his appointment to command the fleet for the West Indies. Under the new code thus formed the battle of 12 April, 1782, was fought. Neither set of Instructions was known before the discovery of this copy.

Letter-book of Capt. William Luke, R.N., in command of the "Blonde," the "Caroline," and the "Namur"; 1794-1799. *Presented by Thurston Peter, Esq.*

Letter-books and minute-books of George Eden, Earl of Auckland, as Governor-General of India; 1836-1842. Thirty volumes.

Chinese imperial decrees, memorials of officials, etc., relating to the war with England and France and the flight of the Emperor from Peking, found in Sinho and the Summer Palace and translated into English by Sir T. Wade; Aug.-Sept. 1860. *Presented by Col. Henry Knollys, R.A.*

Year-books, or reports of law cases, 21-30 Edw. I.; 1-15 Edw. II.; 21, 38-50 Edw. III. and 1 Hen. V. Three volumes.

Petrus Alfonsi, "Disciplina Clericalis," a collection of Latin tales for the use of preachers, etc.; 14th cent.

Tracts, etc., in English, including an otherwise unknown translation of part of the *Somme le Roi* of Friar Laurent, confessor to Philip III. of France, and sermons of Wycliffe, Thomas Wimbleton (1388), and Richard Alkerton (1406); early 15th cent.

Sgathan an Crabhaigh, or "The Mirror of Devotion," translated from Spanish into Irish by Florence Conry, archbishop of Tuam (1609-29); 18th cent. *Presented by Mr. Charles Wray.*

"Pietas Jesuitica," a Latin satirical poem by Phineas Fletcher, with an otherwise unknown dedication in verse to Henry, Prince of Wales. Autograph; written in 1611-12.

Autograph sonnet on Shakespeare by Matthew Arnold, *æt.* 21, dated 1 Aug. 1844. *Presented by Miss Frances Arnold-Forster.*

Correspondence and papers of Mary Berry, 1783-1851, including letters, etc., of Horace Walpole, her sister Agnes Berry, the Hon. Anne Seymour Damer and many others, her journals, 1783-1841, and an autograph copy of her comedy "The Fashionable Friend." Thirty-five volumes.

Autograph draft of a speech by John Bright to the Rochdale Literary and Philosophical Society, in favour of the abolition of capital punishment, *circ.* 1833; and a letter from the same to C. Holland on government extravagance and the "free breakfast table," 9 Jan. 1869.

Autograph memoranda by Edward Gibbon, the historian, of events in his life from his birth in 1737 to 1754. *Presented by the Earl of Sheffield.*

Autograph journal of Edward Gibbon, Part ii., 4 Aug. 1761–16 Aug. 1762. Part i. was acquired in 1907, and the continuation, extending to Dec. 1764, in 1896.

Letter of Anthony Ashley Cooper, 7th Earl of Shaftesbury, to General Garibaldi, deprecating his project for an advance to Rome, etc.; 17 Sept. 1860. *Presented by Bernhard Berenson, Esq.*

Letters, etc., of Sir W. Herschell, John Dalton, Charles Darwin (2), John Ruskin (4), Thomas Carlyle, W. E. Gladstone, and Henry Irving, with four lines of poetry in the hand of W. Wordsworth; 1802–1895. *Presented by the widow of Thomas Thornton, Esq.*

Letter in pencil of George Morland, the painter, to John Graham; 1800.

Letter of Alexander Hamilton, on the staff of Gen. Washington and afterwards Secretary of the United States Treasury, to Brig. Gen. W. Woodford; 2 July, 1779. *Presented by the Hon. Whitelaw Reid, American Ambassador.*

Letter of Nicolas Poussin, the painter, to the Abbate di Cavore, on a picture of the Baptism of Christ now at Belvoir Castle, etc.; 18 Sept. 1642.

Letters (5) of foreign savants; 1740–1814. *Presented by the Rev. W. F. Rose.*

Letter of Victor Hugo to the editor of "The Sun," on a review of "Les Misérables"; 22 May, 1864.

Abstracts of wills and administrations, 1419–1531, collected from various English registers, etc.; 19th cent. *Presented by Mr. B. Quaritch.*

Extent of the manors, etc., of Francis Carew, Esq., in co. Sussex; 1575.

"The hystorye . . . of the house and barons of Cobham," by Francis Thynne, dedicated to Henry Brooke, Lord Cobham, 1598. Autograph.

Accompt-book of James Compton, 5th Earl of Northampton; 1744–1754.

Descent of the family of De Gols from Philip De Gols, burgomaster of Aalst in Flanders in 1571; compiled by Gerard De Gols, rector of St. Peter in Sandwich, *circ.* 1720, with additions to 1736. With arms in colours. *Presented by Dr. A. W. Rowe.*

Common-place book of Sir John Gibson, of Welburn, Kirkby Moorside, co. York, a royalist captain of horse and a prisoner in Durham castle, *circ.* 1653–1660.

"Hardwicke origin and dispersion," a genealogical history of the family of Hardwicke, of co. Derby, compiled by Herbert Junius Hardwicke, M.D. *Presented by the compiler.*

View of all the lands, etc., late belonging to John St. Andrew, Esq., deceased, in cos. Leicester, Northampton, Warwick, etc.; 1646.

Feodary of the manors and lands of John de Segrave, Baron Segrave, in cos. Leicester, Warwick, Derby, etc.; 14th cent. (1338-1353).

Collections relating to the family of Taylor, 17th-19th cent., made by the late P. A. Taylor, M.P. Four volumes, and a roll-pedigree. *Presented by the Executors of Mrs. Clementia Taylor.*

Miscellaneous papers of the Townshend family; 1632-1816.

Grant by Francesco Maria della Rovere, Duke of Urbino, of privileges and immunities to Euphrosyna Turtorea Thomasia, formerly his nurse, and her sons; Pesaro, 10 Mar. 1582. Latin. Vellum sheet; with an illuminated border.

Seven original grants of arms, the earliest by the imperial king of arms, 1467, and the rest by English kings of arms, 1469-1556. In German, Latin, French, and English. On vellum. With arms in colour, and seals.

Collection of upwards of 1150 English coats of arms in colours, made for William Clopton, of Kentwell, co. Suffolk, about 1575. On vellum, in the original stamped leather binding.

Grant of arms by W. Dethick, Garter, to W. le Master, LL.D., Master in Chancery, etc.; 1587. With arms in colour, etc.

Register of grants of arms by Sir Edward Walker, Garter, with arms in colour, etc.; 1645-1675.

"Arms of the Cardinals of the Holy Roman Church, 1342-1903"; compiled by Gustave A. Bouvier, 1884-1903. Seven volumes.

Plans of ancient Earthworks in Essex, Herefordshire, Shropshire and Wiltshire, with descriptive text, by Edward Andrews Downman; 1889-1908. Four volumes, large folio.

Writs (111) directed to sheriffs of various counties, with returns, etc., endorsed; 1345-6.

Fines (228) relating to lands in various counties; 14th-16th cent.

Chartulary of the manor of Landwade, co. Cambridge, held by the families of De Vere, Hastings, Sibile, Grace and Cotton; compiled for Walter Cotton, enfeoffed in 1431.

Taxation-roll of ecclesiastical rents, etc., in the diocese of Carlisle; 1292.

Register of records of the manors of South Brent and Churchstow, co. Devon, formerly belonging to Buckfastleigh Abbey; *circ.* 1610.

Chartulary of Waltham Abbey, co. Essex, compiled by Robert Fuller, the last Abbot; 1526-1540. Another volume of the same Chartulary is Harley MS. 3739.

Collections relating to Kent, including muster-rolls and inventories of church-furniture, 1548-9; early 17th cent.

Monumental inscriptions "in the parts of Holland in Lincolnshire," apparently collected by Robert Taylor of Heckington; 1790.

Charters (5) relating to lands in the city of London; 1286-1401.

Guild-book of the fraternity of the Trinity and SS. Fabian and Sebastian in St. Botolph's church, Aldersgate, London, founded in 1377 and refounded by Dame Joan Asteley, nurse of Henry VI., and others in 1446, including a Calendar with obits, rules, lists of members, copies of deeds, accompts, inventories, etc., to 1483.

Schedule of ship-money assessed on the inhabitants of the parish of St. Michael Bassishaw, London; 1626.

Register of alienations, escheats, etc., of lands in co. Somerset, 1243-1602, alphabetically arranged under places; early 17th cent.

Accompt-book of all levies, voluntary subscriptions, etc., in Yaxley, co. Suffolk, chiefly in connection with the Civil War; 1643-1668.

Drawing in pencil by Henry Davy of the north porch of Great Bealings church, co. Suffolk; 1852. *Presented by Sir W. R. Gowers, M.D., F.R.S.*

Collections relating to co. Westmoreland, including extracts from rate-books, etc., 1598-1715, and warrants, correspondence, etc., connected with the Jacobite rebellion of 1715.

Court-rolls (13) of the manor of Wakefield, co. York; 1317-1318.

Accompts for building and repairs of the cathedral of Troyes, including the erection of the great bell-tower; July, 1410-July, 1411. French. Supplementary to other accompts in Add. MSS. 15803-15812.

Map of the Mediterranean coasts, and from Iceland to the Azores, etc., by the well-known chartographer Bartolome Olives of Majorca; dated at Messina, 1563. Illustrated with pictures of cities, flags, etc. *Presented by E. E. Berry, Esq.*

Papers of Capt. John Clunies Ross, relating to his settlement on the Cocos or Keeling Islands in the Indian Ocean; 1824-1854. *Presented by Frank Adam, Esq.*

Messe Solennelle (Ste. Cécile), in full score, by Charles Gounod; after 1852. Autograph.

Overtures, etc., in score, to operas by Pietro Generali and Karl Gottlieb Reissiger; 19th cent.

George F. Warner.

DEPARTMENT OF ORIENTAL PRINTED BOOKS AND
MANUSCRIPTS.

Cataloguing and Arrangement.—The numbers of the sheets of the various Oriental Catalogues sent to press in 1908 are :—Hebrew MSS., $10\frac{1}{2}$ sheets; Hindustani Accessions, 18 sheets; Sanskrit Accessions, $2\frac{1}{2}$ sheets; Tamil Books, 20 sheets.

The numbers of Titles written for the Catalogues are :—Arabic, 75; Armenian, 3; Assamese, 33; Avestan, 13; Babylonian, 5; Baluchi, 2; Bengali, 310; Burmese, 504; Chinese, 732; Coptic, 4; Ethiopic and Amharic, 27; Gujarati, 40; Hebrew and Aramaic, 277; Hindi, 324; Hindustani, 660; Javanese, 9; Kanarese, 442; Khasi, 2; Kurdish, 4; Lepcha, 2; Lushai, 4; Malayalam, 50; Marathi, 27; Mongolian, 8; Naga, 6; Oriya, 66; Pahlavi, 14; Pali, 103; Panjabi, 47; Persian, 1,564; Prakrit, 29; Pushtu, 5; Sanskrit, 813; Santali, 8; Sindhi, 17; Sinhalese, 188; Syriac, 40; Tamil, 637; Telugu, 122; Tibetan, 4; Turkish, 112.

One hundred and ninety-six Arabic MSS., 55 Hebrew MSS., and 29 Sinhalese MSS. have been fully catalogued.

Short descriptions of 139 MSS. have been entered in the Descriptive List, the Register, and the Classed Inventory.

One hundred and nine MSS. (ff. 14,149) have been folioed.

Binding.—The numbers of Printed Books and MSS. sent to the binders are :—Arabic Books, 30; Chinese and Japanese Books, 190; Hebrew Books, 26; Persian, Turkish and Hindustani Books, 203; Sanskrit and other Indian Books, 308; Syriac Books, 2; Tibetan Books, 25; Pamphlets, 136; MSS., 179.

Students.—The number of Students working in the Students' Room attached to the Department during the year is 2,270. The number of Oriental Printed Books consulted in the Department is 5,584, and of those used in the Reading Room 1,521. The number of Oriental MSS. consulted in the Students' Room is 4,219.

Photography.—One hundred and seventy-one applications have been made to photograph books and MSS.

Additions.—The number of volumes and pamphlets added to the Department during the year is 4,099, of which 3,960 are Printed Books and 139 are MSS.

Of the Printed Books 1,959 were bought; 1474 were received under the India Copyright Act; 88 were received under the Colonial Copyright Act; and 439 were presented. Of the MSS. 125 were bought and 14 presented.

The MSS. are :—

Arabic	-	-	-	-	-	-	-	-	-	18
Arabic and Turkish	-	-	-	-	-	-	-	-	-	1
Batak	-	-	-	-	-	-	-	-	-	1
Burmese	-	-	-	-	-	-	-	-	-	1
Chinese	-	-	-	-	-	-	-	-	-	4
Chinese and English	-	-	-	-	-	-	-	-	-	1
Coptic	-	-	-	-	-	-	-	-	-	3
Hebrew	-	-	-	-	-	-	-	-	-	4
Hindustani	-	-	-	-	-	-	-	-	-	2
Kanarese	-	-	-	-	-	-	-	-	-	2
Lolo	-	-	-	-	-	-	-	-	-	31
Malay	-	-	-	-	-	-	-	-	-	1
Mongolian	-	-	-	-	-	-	-	-	-	5
Mongolian and Russian	-	-	-	-	-	-	-	-	-	1
Pahlavi	-	-	-	-	-	-	-	-	-	1
Pali and Burmese	-	-	-	-	-	-	-	-	-	1
Persian	-	-	-	-	-	-	-	-	-	8
Prakrit and Sanskrit	-	-	-	-	-	-	-	-	-	1
Sanskrit	-	-	-	-	-	-	-	-	-	39
Tamil	-	-	-	-	-	-	-	-	-	2
Tibetan and Mongolian	-	-	-	-	-	-	-	-	-	2
Turkish	-	-	-	-	-	-	-	-	-	9
Turkish and Italian	-	-	-	-	-	-	-	-	-	1

139

The most important acquisitions are :—

Arabic MSS.—1. Al-Jawāhir al-maḍmūmah, a commentary by Radī al-Dīn (Ibrāhīm ibn Sulaimān al-Mantīkī; died A.H. 732) upon the Manzūmah, a treatise by ‘Umar b. Muḥammad al-Nasafī upon the divergences of the orthodox schools of jurisprudence. Copied in Ancyra in A.H. 743 (A.D. 1342). No other copy appears to be on record.

2. Al-Misbāh al-murshid, a monophysite treatise on the Christian faith by Yaḥya b. Jurair al-Takrītī (flor. A.H. 472). Books 9–54 (end). Copied A.H. 759 (A.D. 1358). Very rare.

3. Nihāyat al-arab fi funūn al-adab, an encyclopædia by Aḥmad b. ‘Abd al-Wahhāb al-Nuwairī (died A.H. 733). Vol. 8, on botany. XIVth century.

4. Jamāl al-kurrā, an introduction to the tradition of the text of the Koran, by Ibn Ḥajar al-‘Askalānī (died A.H. 852). Copied A.H. 835 (A.D. 1429). Apparently the only other MS. known is that of the Khedivial Library in Cairo.

5. Muthir al-gharām, a history of the ancient prophets believed to be buried in al-Khalīl (Hebron), by Ishāk b. Ibrāhīm al-Tadmurī (died A.H. 833). Copied A.H. 871 (A.D. 1467).

6. Al-Kitāb fi al-‘ain, a catechetical treatise on the eye, by Hunain b. Ishāk. Copied A.H. 891 (A.D. 1486). No other copy is known in Europe.

7. Al-Kifāyat wa'l-‘ilām, a history of Yaman down to A.H. 803, by ‘Alī b. al-Ḥasan al-Khazrajī (died A.H. 812), forming pt. 4 of a general chronicle of dynasties. Copied A.H. 1004 (A.D. 1596). Very rare.

8. Jawāhir al-sulūk, a history of the Muhammadan rulers of Egypt down to the reign of al-Malik al-Zāhir Ḳānsūh (A.H. 904-5), with a brief history of Muḥammad and the Caliphs. XVIth century. No other copy appears to be known.

9. Mithāk walī al-zamān, the Druse formulary of admission, with an extensive commentary. XVIth century.

10. A commentary, in the Hebrew character, upon the Haftārōth or lections from the Prophetical books of the Bible, containing quotations from Sa‘adyah Gaon and Tanḥūm Yerushalmī. XVIIIth century.

Arabic and Turkish MS.—1. Al-Manzūmat fi al-khilāfiyāt, an Arabic metrical treatise on the differences between the four orthodox schools of jurisprudence, by ‘Umar b. Muḥammad al-Nasafī (died A.D. 537), with a Turkish translation and commentary by Ibrāhīm b. Muṣṭafā b. ‘Alī, completed in A.H. 732. XIVth century.

Chinese MSS.—1. Two volumes of the Yung lo ta tien, the great Imperial encyclopædia prepared at Nanking in A.D. 1408, but never printed. In 1567 two manuscript copies of it were made. One of these perished together with the original in 1644; of the remaining copy, to which the present volumes belong, only a few parts survive.

2. Ch’in ting huang yü hsi yü t’u chih, a description of the regions of Central Asia to the west of China, with 33 maps, issued by Imperial command. Very rare.

Chinese Printed Books.—1. Ta ming i t’ung chih, a complete gazetteer of the Chinese Empire under the Ming dynasty, prepared under Imperial orders by a committee headed by Li Hsien, and with a preface by the Emperor T’ien Shun. Forty vols. 1461. Extremely rare, and of the greatest importance.

2. Hsü tzü chih t’ung chien kang mu, a supplement, by Shang Lu and others, to Chu Hsi’s compendium of Ssü-ma Kuang’s “Mirror of History,” extending from 960 to 1368 A.D., with a preface by the Emperor Ch’êng Hua. 14 vols. 1476. A rare work, very finely printed.

3. Yü ting li tai chi shih nien piao, a chronological history of China in tabular form from 2357 B.C. to 1368 A.D., compiled under Imperial orders by a commission headed by Wang Chih-shu. 10 *chüan*, in 10 quarto vols., on fine white paper.

1715. A very valuable work, of which apparently only one other copy, on yellow paper, exists in Europe.

4. P'ien tzü lei pien, a concordance of two-character phrases in literature, compiled under Imperial orders by Chang T'ing-yü and others, with a preface by the Emperor Yung Chêng. 120 vols. 1726.

5. Huang ch'ao li ch'i t'u shih, a profusely illustrated account of all objects connected with the ceremonies and rituals of the present Manchu dynasty, compiled under Imperial orders by a commission headed by Chiang P'u. 1766. A Palace edition, beautifully printed on white paper.

6. The 24 Dynastic Histories, from B.C. 2697 to A.D. 1643. 540 vols. 1871-1887.

Hebrew MSS.—1. The Canon of Avicenna, vol. 1, in the Hebrew version made in 1279 by Nathan ham-Meathi, finely written on vellum. XVth century.

2. The *Tür Örah Hayyım* of Joseph Karo, with commentaries by previously unknown Yemenite writers. XVIII-XIXth century.

Lolo MSS.—1. A collection of 31 MSS. bearing on the folklore, religion, etc., of the Lolo tribes of Southern China.

Manchu and Chinese Printed Book.—1. An abstract of Chu Hsi's system of philosophy as set forth in his *Chin Ssü Lu*, in 15 parts. 1675.

Mongolian MS.—1. The official diary of the Court of the Emperor T'ung Chih, in the Mongolian version. Vols. 362-4 (for 1874). A Palace copy.

Persian MSS.—1. The Five Romances of Nizāmī, with miniatures of the finest style bearing the names of Bihzād, the favourite artist of the Emperor Bābar, Mīrak, etc. About 1500 A.D.

2. Javāmi' al-hikāyāt, historical anecdotes by 'Aufī (circa 1228 A.D.). XIVth century.

3. A treatise on the theology of the Ḥurūfī sect. XVIIth century.

4. Safīnah i Sulaimānī, a narrative by Muḥammad Rabī' b. Muḥ. Ibrāhīm of the embassy of Muḥammad Husain Beg from the Shah of Persia, Sulaimān Safavī, to the King of Siam in A.D. 1685-87. Copied circa 1700. No other copy appears to be known.

Sanskrit MSS.—1. *Ashta-sahasrikā Prajñā-pāramitā*, a canonical treatise on the philosophy of Northern Buddhism, finely written in the ancient Northern character on 337 palm-leaf folios, with four good miniatures. Dated in the 15th year of Gopāla Deva (probably Gopāla II. of the Pāla dynasty, circa 1000 A.D.).

2. Pañca-rakshā, a standard collection of Buddhist mystic formularies, finely written on black ground in golden letters of the ancient Northern character. A copy made in A.D. 1504 by the Vajrācārya Jinaçandra in the Manisaṅgha Vihāra of Kathmandu for the *dānapati* Jīvarāja Siṃha, in the joint reign of Jayaratna Malla and Yaksha Malla.

Turkish MSS.—1. Jāmi' al-hikāyāt, an historical account by Ḥusain Efendī of the period from the birth of Muḥammad to the growth of the Ottoman Empire. Completed and copied 1669-70 A.D. Very rare.

2. Ḥasb i ḥāl, a mystic poem by Nevī (died A.H. 1007). XVIIth century.

3. Tazkirat al-shu'arā, biographies of poets with extracts from their works, compiled by Saiyid Riżā in 1640 A.D. XVII-XVIIIth century.

4. An anthology in verse and prose, chiefly from the works of Zātī. XVIIIth century.

5. The Divān or poems of Şervet Efendi. XIXth century.

Turkish and Italian MS.—1. A copy of the Capitulations granted in A.D. 1675 by Sultan Muḥammad IV. to English traders in Turkey, with Italian translation. Copied about 1675.

L. D. Barnett.

DEPARTMENT OF PRINTS AND DRAWINGS.

I.—*Arrangement and Cataloguing, etc.*

The drawings by Henri and Rudolf Lehmann have been withdrawn from exhibition in the King's Library and returned to their cases.

A series of engraved portraits has been contributed to the Chatham Bicentenary exhibition in the King's Library.

A series of engraved portraits has been contributed to the Milton Tercentenary exhibition in the King's Library.

The collections of Italian, German and Dutch duplicate prints have been examined and arranged, and a schedule of those available for loan or exchange has been drawn up.

The collection of etchings by François Courboin has been arranged in a portfolio.

The woodcuts by Laurence Housman have been arranged in an album.

One hundred and ninety-two drawings and two thousand nine hundred and eighty-seven prints recently acquired have been incorporated with the collections to which they severally belong.

All books of prints and books of reference recently acquired have been catalogued, labelled, and placed.

The preparation of a catalogue of the collection of engraved British Portraits has been continued, and vol. i. completed and published.

All engraved British Portraits recently acquired, belonging to classes I.—VI., have been catalogued.

The preparation of vol. ii. of the catalogue of Early German and Flemish Woodcuts has been continued.

The preparation of a critical and descriptive catalogue of the collection of Japanese Woodcuts has been continued.

The preparation of a catalogue of the collection of Early Italian Engravings has been completed, and it is passing through the press.

A complete list of the Cheylesmore collection of eight thousand and sixty mezzotint portraits (including a few prints of other kinds), arranged under the engravers' names, has been drawn up and transcribed into a volume of the Register, and a copy has been made for the use of the testator's representatives.

The Cheylesmore collection of two thousand seven hundred and fifteen miscellaneous portraits of Queen Victoria and her family has been sorted and arranged, and a list drawn up for transcription into the Register.

The indexes of artists of all schools have been revised with the aid of Thieme and Becker's new lexicon of artists, to the end of letter A.

The etchings and lithographs by Ingres and Delacroix have been marked off in Delteil's *Peintre-Graveur Illustré*.

The engravings after P. Breughel I. have been marked off in R. v. Bastelaer's catalogue of his works.

Titles have been written for the newly-bound volumes of the Burlington Fine Art Club's catalogues and for articles in the "Gazette des Beaux-Arts," 1907, and "Deutsches Kunstblatt," 1850-54, for the catalogue of books of reference.

The work of writing slips for the titles of prints after English Masters, with a view to the preparation of a subject index to that division of the collection, has been begun.

The preparation of slips for an index to the collection of photographs presented by the National Photographic Record has been continued.

The preparation of slips for an index to the Banks collection of shopbills, admission tickets, etc. has been completed, and their arrangement in alphabetical order has been begun.

The transcription for press of the catalogues of British Portraits, Japanese Woodcuts and Early Italian Engravings has been continued.

A collection of duplicate engravings in 81 frames has been lent to the Macclesfield Art Museum.

Registration.—Three thousand four hundred and sixteen items have been entered in the Register of Acquisitions.

Stamping and Mounting.—The work of impressing with a special stamp the duplicates removed from the Franks collection of foreign bookplates has been completed, and they have been returned to the executor.

One thousand six hundred and ninety-seven "ordinary" mezzotints belonging to the Cheylesmore collection have been stamped and fixed in wrappers for their better preservation.

Five thousand one hundred and fifty-three prints, drawings, etc., recently acquired, have been impressed with the departmental stamp and references to the Register.

Two hundred and thirty miscellaneous drawings have been prepared and mounted on sunk mounts, and three hundred and ninety-five prints have been mounted in the ordinary manner.

Thirty drawings in tempera and oil by Tintoretto, thirty-six Chinese woodcuts of the seventeenth century, and one hundred and ten Japanese woodcuts of the eighteenth century, all requiring special treatment, have been repaired and mounted.

Students.—The total number of visitors admitted to the Print Room during the year ending 31 December 1908 was 8990, being an increase of 400 from the preceding year.

Photographing.—Four hundred and five applications were made for leave to photograph objects in the collection, and 2233 photographs were taken.

II.—*Additions.*

The total number of prints, drawings, etc. acquired during the year was 3666, of which the following are the most important:—

ITALIAN SCHOOL.

Drawings.

Piranesi, Giovanni Battista. Forty-six drawings and sketches of Roman ruins, imaginary classical buildings, etc.; a very important and interesting collection.

Tiepolo, Giovanni Battista. Group of men and women assembled near a well; pen and sepia wash. *Presented by Max Rosenheim, esq., F.S.A., through the National Art Collections Fund.*

Engravings.

Cesena, Peregrino da. The Lovers; niello; after the Master of the "Hausbuch." From the Morrison collection.

Montagna, Benedetto. Apollo and Vulcan (B. xiii., 345.24).

Prints arranged to illustrate the Works of Masters.

Botticelli, Sandro. The Virgin and Child; from picture in the Poldi-Pezzoli Museum, Milan; reproduction in colours. *Presented by the Vasari Society.*

Francesca, Piero della. Portrait of a lady; from picture in the Poldi-Pezzoli Museum, Milan; reproduction in colours. *Presented by the Vasari Society.*

Lippi, Filippo. The Virgin in adoration; reproduction in colours. *Presented by the Vasari Society.*

Luini, Bernardino. Head of the Virgin Mary; from fresco in the Brera, Milan; reproduction in colours. *Presented by the Vasari Society.*

Vinci, Leonardo da. Head of Christ; from the cartoon in the Brera, Milan; reproduction in colours. *Presented by the Vasari Society.*

The Last Supper; from the fresco in Sta. Maria delle Grazie, Milan; reproduction in colours. *Presented by the Vasari Society.*

GERMAN SCHOOL.

Drawings.

Kubinsky, Carl von. Portrait of "Wacker Inspector des Antiken Cabinets"; pencil and bistre wash.

Etchings.

Wolff, Prof. Heinrich. Portrait of Titian, after himself; remarque proof. Portrait of a young man, after F. Hals; fourth state. Virgin and Child with angels; after Botticelli; three states. *Presented by the Artist.*

Engravings.

Baldung, Hans. The Virgin with crown of stars, suckling the Child; from "Encheiridion Poeticum," Strassburg, 1515.

Binck, Jakob. Portrait of Charles V. (not known to Bartsch). *Presented by the National Art Collections Fund.*

Monogrammist F. V. B. St. Anthony (B. vi. 86. 32.); very fine impression without watermark.

Monogrammist C. G. (B. ix. p. 17.). Circular ornament with two sphinxes; undescribed. *Presented by the National Art Collections Fund.*

Pichler, Johann Peter. Portrait of Charles, Archduke of Austria; mezzotint; proof before letters. Portrait of Prince Charles of Schwarzenberg, after Oelenhainz; mezzotint; proof before letters. Portrait of Prince John of Liechtenstein; mezzotint; proof before letters.

Schäufelein, Hans (attributed to). Broadside relating to a confraternity of St. Anne; with woodcut of the Holy Family.

Woodcut.

Wechtlin, Hans. Pyrgoteles (Pass. iii. 334. 57); chiaroscuro.

SCHOOL OF THE NETHERLANDS.

Drawings.

Potter, Paul (by or after). A herdsman with two dogs driving cattle along a wooded road; Indian ink wash. *Presented by H. B. Morse, esq.*

Potwyl, J. Peasants carousing; lead point on vellum.

Engravings.

Bruyn, Nicolaas de. History of Naaman; 1607.

Dolendo, Zacharias. Christ and the Apostles; set of fourteen plates after J. de Gheyn.

Vorsterman, Lucas. The Earl and Countess of Arundel; after Van Dyck; proof before letters; undescribed state with written inscription differing from that published.

Woodcuts.

Cornelisz Jacob. Two riders; a fragment of the rare Procession of the Counts of Flanders. *Presented by Dr. W. Paulson.* Group of men conversing.

FRENCH SCHOOL.

Drawings.

Boucher, François. Woman bathing at a fountain; red chalk. From the Rogers collection.

Clouet, François. Portrait of a lady; black and red chalk; formerly in the collection of Lord Godolphin.

Daubigny, Charles François. Construction of the Thames Embankment in 1866; black chalk.

Delacroix, Eugène. Hamlet and Polonius; pencil. Head of a lion; pencil, tinted. Head of a cat; charcoal. Head of a lion with open mouth; pen, tinted. Head of a horse; pencil.

Fantin-Latour, Henri. Paradise and the Peri; study for the lithograph; charcoal.

Fragonard, Jean Honoré. Four designs illustrating "Don Quixote"; pen and bistre wash. From the Denon collection.

Fromentin, Eugène. A horse standing; pencil.

Gillot, Claude. Christ healing the sick; red chalk.

Jacque, Charles. Poultry; charcoal on grey paper.

Rousseau, Théodore. Cottage and trees by a road; sepia. A clump of trees in a field; pencil.

Troyon, Constant. Horse and cart with man and dog; black chalk. Two women seated on a hill near the sea; pencil and watercolours.

Etchings.

Béjot, Eugène. Sixteen views in Paris and London. *Presented by the Artist.*

Courboin, François. One hundred and fifty-one plates of portraits, bookplates, book illustrations, address cards, etc. *Presented by the Artist.*

Méryon, Charles. "La Morgue"; 4th state. "Chenonceau"; two states. "Loi Lunaire." "Chevet de St. Martin-sur-Renelle."

Engravings.

Edelinck, Gérard. Portrait of Guillaume de Lamoignon. Portrait of Madeleine de Lamoignon; two states.

Edelinck, Nicolas. Equestrian portrait of Philippe d'Orléans; proof.

Launay, Nicolas de. "Première Leçon d'Amitié Fraternelle"; after E. Aubry. "Le Poète Anacréon"; after Baudouin. "La Gayeté de Silène"; after N. Bertin.

Prints arranged to illustrate the Works of Masters.

Fragonard, Jean Honoré. "La Mère de Famille"; by A. Romanet. "L'Enfant Chéri"; by G. Vidal.

SPANISH SCHOOL.

Etchings.

Goya, Francisco. "Fiéro Monstruo." The Blind Singer.

FOREIGN ARTISTS WORKING IN ENGLAND.

Drawings.

Boitard, Louis Pierre. "The Imports of Great Britain from France"; design for a satirical etching; pen and sepia, washed with Indian ink. *Presented by M. H. Salaman, esq.*

Etching.

Legros, Alphonse. Portrait of himself at the age of 20; one of the two impressions known. *Presented by the National Art Collections Fund.*

ENGLISH SCHOOL.

Drawings.

Ashfield, Edmund. Portrait of a gentleman; pastels; a very fine example in perfect condition.

Bellers, William. Portrait of a painter; pastels; 1733.

Bradley, William. Portrait of Henry Liverseege; chalks. *Presented by E. E. Leggatt, esq.*

Calvert, Edward. A woman's head in profile; oils on paper. Deer in a wood; watercolour. *Presented by S. Calvert, esq.*

Carter, John. Portrait of Benjamin Carter, sculptor; after R. Pyle; watercolours.

Constable, John, R.A. Twenty-eight early studies, taken from a pocket sketch-book. *Presented by C. Newton-Robinson, esq.*

Crome, John Bernay. Landscape composition; pencil; 1832.

Devis, Anthony Thomas. Six views of places in Spain, Italy and England; watercolours. *Presented by H. J. Pfungst, esq., F.S.A.*

Etty, William, R.A. Sketch of a girl standing. *Presented by G. W. Duffett, esq.*

Liverseege, Henry. Meg Merrilies appearing to young Hazlewood; black chalk on blue paper. *Presented by E. E. Leggatt, esq.*

Melville, Arthur. A barber's shop, Spain; watercolours. Henley Regatta; watercolours. *Presented by Mrs. Melville.*

Paton, Sir Joseph Noel. Sketch for illustration to "Midsummer Night's Dream"; pencil. *Presented by E. E. Leggatt, esq.*

Poole, Paul Falconer, R.A. The story of Nastagio degli Onesti; watercolours. A group of men and women round a pond; charcoal and watercolour. A study of trees; black chalk. *Presented by Sidney Colvin, esq.*

Prout, Samuel. Temple Farm, near Rochester; pencil. Quarry House, Rochester; pencil. *Presented by R. Phene Spiers, esq., F.S.A.*

Shelley, Samuel. Leaf with sketches of Lady Macbeth on one side and a group of three ladies on the other; pencil and pen.

Solomon, Simeon. Portrait of a boy. *Presented by Sidney Colvin, esq.*

Strafford, George. "Fougères"; watercolours. "Sir Melbourne Punch and Charles Darling hold jubilee on the death of Transportation"; cartoon; pencil. Children playing near a tree; pencil; 1856. *Presented by S. Calvert, esq.*

Strang, William. Portrait of Dr. Richard Garnett, C.B.; silver point. *Presented by the Artist.*

Talfourd, Field. Portrait of Samuel Cook, watercolour painter; black chalk. *Presented by E. Radford, esq.*

Etchings.

Dodd, Francis. Six portraits and studies; drypoint. *Presented by the Artist.*

Rhead, George Wolliscraft. Shepherd's Purse. Hag's Taper. Toadflax. Carnations. Vespers. An Italian peasant. *Presented by the Artist.*

Lithographs.

Becker, Harry. Fifteen rustic subjects. *Presented by the Artist.*

Shannon, Charles Hazelwood. Winter; design for a fan. *Presented by the Artist.*

Engravings.

Hunter, J. Brownlee. Portrait of John Phillip, R.A.; from a painting; private plate. *Presented by the Artist.*

Ward, William, A.R.A. Portrait of Samuel Whitbread; after Beechey. *Presented by S. H. Whitbread, esq.*

Woodcuts.

Housman, Clemence. Six proofs of book illustrations after L. Housman and P. Woodroffe. *Presented by the Artist.* Seven proofs of book illustrations. *Presented by Campbell Dodgson, esq.*

Sleigh, Bernard. Bookplate of the late John Morgan of Aberdeen; from design by C. Ricketts. *Presented by Mrs. Yule.*

Prints arranged to illustrate the Works of Masters.

Cosway, Richard, R.A. Maria and Harriet Falconar; by E. Scott, stipple. *Presented by G. Pinkerton, esq.*

New, Edmund Hort. Hewell Grange, the seat of the Earl of Plymouth; photogravure. New College, Oxford; photogravure. The Towers of Oxford; lithograph. *Presented by the Artist.*

Turner, Joseph Mallord William, R.A. "The Felucca"; No. 82 of Liber Studiorum. One of the few impressions printed before the Turner sale of 1873. *Presented by C. M. W. Turner, esq.*

AMERICAN SCHOOL.

Etchings.

Smillie, James David. Portrait of James Smillie, engraver. Portrait of Dr. Jacobi. Portrait of Hon. Levi P. Morton. Portrait of Mrs. G. "In Northern Pennsylvania." Old windmill, coast of Virginia. Hollyhocks in a vase. *Presented by the Artist.*

Whistler, James McNeill. Portrait of Robert Barr; one of forty-five impressions taken in 1908 from the plate left unfinished by Whistler and bitten in by Walter Sickert. *Presented by W. Sickert, esq.*

Engravings.

Smillie, James David. House of Mr. M. C. D. Borden, New York City. A jade carving; mezzotint and aquatint. *Presented by the Artist.*

JAPANESE SCHOOL.

Paintings.

A pair of painted screens by an artist of the Kano school. *Presented by Miss Ionides.*

Woodcuts.

Hiroshige. View of the Naruto passage; triptych. One of the artist's most important works.

Hokusai. Early set of eleven illustrations to Chiushingura.

Kiyomasu. Toilette scene.

Kiyonaga. Interior of a tea-house. Large print.

Koriusai. Youth and girl with the three lucky things, Fujiyama, a hawk and an egg-plant; double *hashira-kake* print mounted on silk, with rollers; a great rarity.

Kunisada. Tiger and waterfall.

Kuniyoshi. Nichiren in the Isle of Sado. Apparition of a skeleton; triptych.

Nishimura Shigenobu. Actors in character.

Sekkeisai Masafusa. Girl by a flowering tree.

Okumura Masanobu. Interior of a theatre.

Sekio. Street scene.

Shuncho and Utamaro. Husband and wife as geishas dancing at the New Year.

Shuntei. Kintoki and carp in waterfall.

Toyoharu. Young man reading a poem, a girl looking over his shoulder.

Toyokuni I. Actor with fan, as Kitsune Tadanobu.

Yeisen. Bird on a bough; printed in blue.

A collection of one hundred and eleven miscellaneous prints by Harunobu, Hokusai and his pupils, Kunisada, Kuniyoshi, Sadahide, Sadatora, Shigemasa, Shunsen, Shunsho and Toyokuni I. *Presented by Sir Hickman Bacon, Bart.*

PORTRAITS.

Foreign.

Franklin, Benjamin; after L. C. de Carmontelle; "chez Née."

Frederick William III. of Prussia; by H. Sintzenich; mezzotint.

Frederick Henry Charles of Prussia, Prince; by H. Sintzenich; mezzotint.

Frederica Louise, widow of Frederick William of Prussia; by H. Sintzenich; mezzotint.

La Forge, Grégoire; by G. Edelinck; two plates.

Louis XIV., after C. Lebrun; by G. Edelinck.

Louis XIV., on horseback; by G. Edelinck; two states.

Saurau, Franz, Graf von; after H. F. Fûger; by J. Pichler; mezzotint.

Springarn, Professor J. E., of Columbia University, New York; etched by Otto J. Schneider. *Presented by Professor Springarn.*

English.

Challoner, Richard, D.D., Bishop of Debra; stipple. *Presented by Rev. E. Burton.*

Coghlan, Miss; after Gainsborough; by J. R. Smith; mezzotint.

Kenyon, Lady; after Hoppner; by H. Meyer; modern impressions from plate in possession of Lord Kenyon. *Presented by Lord Kenyon.*

Mitchell, William; after Abbott; by V. Green; mezzotint.

Peel, Sir Robert, Bart, M.P.; after Pickersgill; by G. R. Ward; mezzotint. *Presented by J. Charrington, esq.*

Scott, Sir Walter, Bart.; after Phillips; by S. W. Reynolds; mezzotint.

BOOKPLATES.

Fifteen plates of the Bruce-Bannerman family; by C. W. Sherborn and G. W. Eve. *Presented by W. Bruce-Bannerman, esq., F.S.A.*

Twenty-seven plates from designs by J. Walter West, R.W.S. *Presented by the Artist.*

Nine American plates, from designs by Margaret E. Webb, W. E. Fisher, and J. Chambers. *Presented by Miss Dorothy Furman.*

Three plates of the late John Morgan of Aberdeen; designed by Otto Hupp and C. Ricketts. *Presented by Mrs. Yule.*

Plate of Miss Bertha Brewster; designed by Miss M. Lanchester. *Presented by the Artist.*

Plate of Miss E. Ponsonby McGhee; designed by Walter West; photogravure. *Presented by Miss McGhee.*

COLLECTIONS.

Six hundred and sixty-five proofs of woodcuts by Swain from designs by H. Allingham, F. Barnard, R. Barnes, B. Bradley, F. Dicksee, G. Du Maurier, L. Fildes, M. E. Edwards, C. Green, C. Keene, M. J. Lawless, C. Lawson, J. Lawson, J. Leech, F. Leighton, J. E. Millais, J. W. Nicol, G. J. Pinwell, J. Ralston, W. Small, F. Sandys, J. Tenniel, H. Woods, etc.

One hundred and eighty impressions of the photogravure plates executed for "The Royal Collection of Paintings at Buckingham Palace and Windsor Castle," ed. L. Cust, 1905-6.

One hundred and ninety-six platinotype photographs of ancient or interesting buildings and monuments in various parts of the United Kingdom; in continuation of the National Survey Record. *Presented by the Secretary on behalf of the contributors to the Survey and Record.*

BOOKS OF PRINTS AND BOOKS OF REFERENCE.

Alexander, W. C. "Drawings of Old London," 1908. *Presented by the Author.*

Bartolozzi, Francesco, R.A. Italian MS. catalogue of his engravings. *Presented by G. Milner-Gibson-Cullum, esq., F.S.A.*

Bone, Muirhead. Set of illustrations to "Children's Children," by Gertrude Bone; one of twelve sets pulled separately on Japanese paper.

Brunfels, O. "Precationes Biblicae," Strassburg, 1528; with title page and borders by Weiditz. *Presented by the National Art Collections Fund.*

Constance Breviary; printed by E. Ratdoldt, Augsburg, 1516; with five illustrations and four title-borders designed by Jörg Breu. *Presented by the National Art Collections Fund.*

"Directorium seu Index divinatorum officiorum," etc.; printed by P. Leichtenstein, Venice, 1516, 4to., with woodcut by Leonhard Beck on the title-page. *Presented by the National Art Collections Fund.*

"Epistola Cornelii Croci Aemstelredami, Coloniae, 1531"; with woodcuts by A. von Worms and C. von Oostzanen. *Presented by the National Art Collections Fund.*

Goloubew, Victor. "Les Dessins de Jacopo Bellini au Louvre et au British Museum"; deuxième partie (the Paris sketch book), 1908. *Presented by the Author.*

Morgan, J. Pierpont. Catalogue of his collection of Miniatures; compiled by G. C. Williamson, Litt.D.; vols. iii and iv; privately printed 1908. One of forty copies on Japanese vellum. *Presented by J. Pierpont Morgan, esq.*

Morgan, J. Pierpont. Catalogue of his collection of Early Printed Books; three vols. 1907. Privately printed. *Presented by J. Pierpont Morgan, esq.*

Ptolemy. "Claudii Ptolemaei Enarrationis libri octo Bilibaldo Pirckeymher Interprete," Argentorati, 1525, fol.; containing the woodcut of the armillary sphere designed by Dürer. *Presented by W. Mitchell, esq.*

"Ein Spiegel der Blinden," with woodcut attributed to H. Weiditz. *Presented by the National Art Collections Fund.*

Vierge, Daniel. Fifty illustrations to "The Tavern of the three Virtues," by Saint Juirs, 1896; engraved by Clement Bellenger.

Wilkinson, Nevill, R. "Wilton House Pictures," 2 vols., 1907, 4to.

Sidney Colvin.

DEPARTMENT OF EGYPTIAN AND ASSYRIAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, etc.*

EGYPTIAN ANTIQUITIES:—

The general re-arrangement of the Egyptian Collections has been continued and the greater number of the important objects acquired during the year have been incorporated and exhibited.

A fine granite column from the portico of the pyramid tomb of King Unas (Vth dynasty) has been repaired and set up in the Vestibule, and the massive "false door" of Asa-ānkh has been mounted near it. Granite plinths have been placed under the large sarcophagi, and many of the statues of Sekhet have been remounted.

The labelling of the exhibits has been continued. For convenience of reference the monuments have been renumbered consecutively.

Several of the larger objects in the Galleries and many of the hard-stone sepulchral tablets have been carefully cleaned.

Twenty-six Caen stone plinths and pedestals have been worked and placed in position; sixteen granite plinths have been prepared and "fixed"; forty-four white alabaster plinths have been washed and polished, and figures of gods, etc., mounted on them; and two hundred and ten porcelain figures, etc., have been mounted on smaller pedestals.

Oak frames have been made for sixty-eight stone altars and sepulchral tablets; eight stelæ frames have been repaired.

A limestone door-jamb of Mer-en-Ptah and a cornice-slab of Sa-Amen have been repaired and mounted; and eight large slabs have been cleaned and mounted.

1831 scarabs, small plaques, porcelain figures, etc., have been mounted on cloth-covered wooden plinths.

260 miscellaneous objects have been cleaned, or repaired, and when necessary remounted.

413 casts of scarabs for photographic purposes have been made, 10 fragments of papyri have been unrolled and mounted, and a collection of ostraka has been boxed.

694 labels have been written and painted on the plinths, etc., in the Egyptian Galleries; and 3526 numbers have been painted on antiquities, casts, etc.

1,666 objects have been registered, and about 900 objects, from which the numbers had disappeared, have been identified and re-numbered.

260 descriptive slips for the new Guide have been written.

70 stelæ have been copied, and 34 have been collated a second time.

3,573 slips for a catalogue of scarabs have been written, and 3,509 have been revised for press.

ASSYRIAN ANTIQUITIES :—

The general re-arrangement of the unexhibited section of the Babylonian and Assyrian Collections has been continued. Fifteen slabs have been carefully cleaned.

5451 tablets have been boxed; 170 tablets have been cleaned and repaired; 6 Assyrian ivories have been cleaned and re-mounted.

Casts of 87 cylinder-seals have been made and mounted with the originals on blocks; casts of 104 Hittite, Palmyrene, and other amulets, seals, etc., have been made and mounted; and 40 labels and 480 registration numbers have been written and printed.

1,075 tablets and other objects have been registered; list of tablets bearing seal impressions has been continued.

228 texts have been collected, copied, collated, and arranged for publication in 50 plates. An Index to the 24 parts of "Cuneiform Text" has been prepared.

23 plates of text from Boundary Stones have been translated; and many additional descriptions have been written for the new edition of the Babylonian and Assyrian Guide.

Publications.—A "Guide to the Egyptian Collections in the British Museum" has been compiled and issued, and a second edition of the "Guide to the Babylonian and Assyrian Collections" has been prepared and issued.

Part XXIV. of "Cuneiform Texts from Babylonian Tablets" has been issued.

Students.—About 3,100 visits have been made to the Department by students and others; and 6,987 objects have been issued for their use.

Personally conducted Parties.—Fifty-three parties have been personally conducted through the Department by members of the staff, the number of persons being fourteen hundred and seventy, including many pupil teachers and scholars from the London County Council Schools. The parties came from educational and social clubs, schools, etc., at Barnet, Barnsbury, Battersea, Covent Garden, Dulwich, Edmonton, Hammersmith, Hertford Heath, Hornsey, Islington, Leyton, Marylebone, New Cross, Rotherhithe, Walthamstow, and West Ham. Parties also came from Birmingham, Leeds, Huddersfield, Sowerby Bridge, etc.

II.—*Acquisitions.*

i.—EGYPTIAN :—

1. A sculptured limestone panel, in two sections, which formed the "false door" of the tomb of Ertā-n-pānkh, a high official of Memphis. On it is cut a

- representation of the deceased seated at a table of offerings. From Sakkārah. IVth dynasty, B.C. 3700.
2. Part of a glazed steatite cylinder-seal inscribed with the name and titles of King Sahurā. About B.C. 3500.
 3. Large, shallow, grey granite bowl, uninscribed. From Sakkārah. Vth dynasty.
 4. Grey granite kneeling figure of a priest, wearing the long robe and deep wig which characterize the statues of the early Middle Empire. From Karnak. XIth or XIIth dynasty, B.C. 2500.
 5. White limestone kneeling figure of a priest, holding upon his knees a tablet of unusual shape inscribed with a version of a Hymn to Rā which was current under the XVIIIth dynasty. Fine work. From Karnak. About B.C. 1550.
 6. Brown sandstone seated figure of a scribe, holding an unrolled papyrus on his knees. From Karnak. XVIIIth dynasty.
 7. Grey granite kneeling figure of a priest, or high official, holding a seated figure of Osiris, who is represented in mummied form, and wearing the Atef crown. From Karnak. New Empire.
 8. Small seated grey granite statue of a priest named Uah-ab-Rā, who held several important offices under the kings of the XXVIth dynasty. The text states that he lived "ninety-nine years in health, without suffering." From Karnak. B.C. 550.
 9. Grey granite seated figure of a priest and scribe, with his hands crossed over his knees. From Karnak. B.C. 550.
 10. Black granite seated figure of Petā-Amen-neb-nest-tai, a "divine father," and "scribe of the House of Wonders" of the gods of the double-city at Thebes. On the granite is cut the text of an address to the fellow priest of the deceased. From Karnak. B.C. 550.
 11. Grey granite standing figure of Pekhru (?), a high priest, who held numerous offices in connection with the temples of all the great gods of Thebes. He holds before him a figure of Osiris wearing the White Crown. The plinth and pedestal are inscribed with a list of the offices of the deceased. From Karnak. Ptolemaic Period.
 12. Painted limestone stele with a representation of the god "Ptah of the Beautiful Face," seated within a shrine, with a table of offerings before him. Beside the shrine are sculptured seven human ears. Below is a figure of Penbui, the official

who dedicated the stele to the god. The text contains praises of Ptah. XVIIIth or XIXth dynasty.

13. A large handsome bas-relief, elaborately carved, partly in high, and partly in sunk relief, with a representation of the priest Mes seated, receiving gifts and offerings from his wife Baket-ānkh. The work is fine and delicate, and the monument is a good typical example of the best tomb-reliefs of the XIXth dynasty. From Sakkārah.
14. Grey granite rectangular base of a statue of the god Bes, inscribed with a series of magical prayers against reptiles of every kind, similar to those found on the Metternich Stele. From Akhmîm. XXVIth dynasty.
15. A finely painted coffin of Nes-Khensu-pa-khart, with full-length figures of Isis, Nephthys, and Harmachis. It dates from the transition period between the XXIIInd and XXVIIIth dynasties. From Thebes. About B.C. 600.
16. Bronze figure of a man bearing on his head a round tray covered with bread cakes. From Abydos. XXVIth dynasty.
17. Bronze bottle, the body of which is in the form of a dog-headed ape, eating a fruit. XXIIInd dynasty.
18. Stele of Khensu, dedicated to the Ichneumon-god by himself, his wife, and son. On it are sculptured figures of ten ichneumons, arranged in five pairs, with a vase of offerings for each. XXIIInd-XXVIth dynasty.
19. Stele recording the dedication of a building to the goddess Neith, Horus of Resenet, and Horus of Mehenet by Amāsis II., king of Egypt, about B.C. 570, in the eighth year of his reign. From Saïs. XXVIth dynasty.
20. Stele recording the presentation of offerings to the gods Menu, Horus, etc., by Ptolemy IV. Philopator I., King of Egypt. B.C. 222-205. Below the sculptures is an illegible Demotic inscription. From Thebes.
21. Stele of Kerāsher Nefer-hetep, sculptured with a scene representing the deceased adoring the gods, and inscribed with prayers to Rā. Ptolemaic Period.
22. Stele dedicated to Thoth by an unknown person. On it is sculptured a figure of the dog-headed ape, sacred to the gods, bringing back the Eye of Horus, or the Sun. Ptolemaic Period.

23. Stele dedicated to Thoth by an unknown person. On it is sculptured in relief a figure of the ibis, sacred to the god. Ptolemaic Period.
24. Stele of an Utcheb priest on which are sculptured figures of the winged disk (the summer sun), the two boats of the Sun-god, the deceased adoring the gods Menu, Isis, Nephthys, etc. Below these is a prayer. Ptolemaic Period.
25. Stele recording the presentation of certain gifts by the Emperor Tiberius to the gods Amen, Mut, Khensu and Khensu-pa-khart, of Thebes. From Thebes. Roman Period.
26. Finely painted limestone stele of Pu-Anpu (?), a priest of Horus, sculptured in sunk relief with a scene representing the deceased adoring Osiris, Horus and Isis. From Akhmim. Ptolemaic Period.
27. Large diorite libation vessel, with square ears. XIXth-XXIInd dynasty.
28. Small, fine white alabaster axe, which was worn as an amulet. Uncertain period. From Thebes.
29. Hæmatite Gnostic amulet, in an iron setting, on which are cut figures of Serapis, Harpokrates, and the Khnubis-serpent. Roman Period.
30. Wooden box inlaid with ebony and bone, with a handle carved in the form of a hare. Roman Period.
- 31-34. Four wooden spoons used in Coptic religious services. Christian Period.

ii.—ASSYRIAN :—

- i.—1. Portion of an Assyrian bas-relief sculptured with a scene representing a ship putting out to sea, probably the Persian Gulf. On the shore are a castle and a tree. Period doubtful. [No. 102,981.]
- 2-5. Four bronze fishes, apparently native offerings to Ea, god of the deep; with bronze pegs for attachment to pedestals. [Nos. 102,985-8.]
6. A necklace of glazed porcelain beads in the form of pomegranates. [No. 102,989.]
- 7-9. Three terra-cotta bowls for magical ceremonies, or for administering medicinal potions. Inscribed on the insides in Mandaitic. 2nd or 3rd century, A.D. [Nos. 102,982-4.]
- ii.—1. Bronze of an early Babylonian god, wearing a head-dress decorated with four pairs of horns, and holding a cone whereon is cut the name of Gudea, Viceroy of Lagash. About B.C. 500. [No. 102,613.]
2. Lapis-lazuli man-headed bull, *couchant*, inscribed on the left side with its owner's name, "Api-

ushakal(?), the servant of Martu and Ninshu-anna." The head appears to have been recut in recent times. [No. 102,608.]

3. Amethyst cylinder on which is cut the figure of a man standing in adoration before the emblem of the storm-god. The inscription reads: "Adad, the son of Anu, the Great Bull of Heaven and Earth." [No. 102,607.]
 4. Chalcedony seal on which is cut a figure of a king, or high official, seated at a table and drinking from a bowl. Persian Period. [No. 102,610.]
 5. Chalcedony scaraboid engraved with a figure of a winged uraeus above a row of small uraei. [No. 102,609.]
- iii.—A fine collection of ninety-seven cylinder-seals, seals, scaraboids, etc., in lapis-lazuli, agate, carnelian, mother-of-emerald, sardonyx, chalcedony, jasper, hæmatite, shell, etc., dating from the early Babylonian to the Persian Period. The following are of special interest:—
1. Cylinder-seal of Akham-arshi, the scribe, the son of Babati, inscribed with an address to Ibi-Sin, king of Ur, about B.C. 2400. Ibi-Sin is called "god of his land," and as the determinative for deity is placed before his name, and as the king was living when this seal was cut, it seems certain that divine honours were ascribed to him during his lifetime. [No. 102,510.]
 2. Limestone cylinder-seal carved in relief with a scene representing two mythological beings with the horns and tails of bulls in conflict with a lion and a bull. Seals of this class are very rare. [No. 102,504.]
 3. Black marble seal of Beli-ipalzam, son of Ibni-Ninib, "servant of the god Ninib and of Sumu-la-ilu." Sumu-la-ilu was the second king of the First Dynasty of Babylon, about B.C. 2100. [No. 102,506.]
 4. Variegated marble cylinder-seal on which are cut a figure of the owner and an address to the goddess Bau, who is entreated to utter his name in order that his prosperity may be ensured, and to be favourable to his descendants. Kassite Period. [No. 102,505.]
 5. Green jasper cylinder seal engraved with a scene representing the Sun-god in heaven, with flames rising from his shoulders. One hand rests on the Mountain of Sunrise, and the other on the Mountain of Sunset, and two attendant deities shut and open the Eastern and Western Gates of heaven. [No. 102,500.]

6. Lapis-lazuli cylinder-seal engraved with seated figures and with figures of ibexes and lions in conflict. [No. 102,509.]
7. Jasper cylinder-seal engraved with a scene representing a priest ministering at an altar before a Serpent-deity. [No. 102,511.]
8. Haematite cylinder-seal engraved with figures of the Sun-god and his wife Aa, and various divine emblems. [No. 102,515.]
9. Chalcedony cylinder-seal engraved with a scene representing a priest, as king, accompanied by an attendant, ministering at an altar, before a deity, behind whom are the figure of a Fish-god and divine emblems. Neo-Babylonian or Persian Period. [No. 102,495.]
10. Brown stone cylinder-seal engraved with figures of a priest and a winged mythological being adoring the Sacred Tree and the Winged Disk. [No. 102,494.]
11. Cylinder-seal engraved with a scene representing a god in conflict with two winged beings. Persian Period. Very fine work. [No. 102,532.]
12. Large cylinder-seal engraved with rude figures of heroes in conflict with animals. Early Babylonian Period. [No. 102,503.]
13. Cylinder-seal of "Shumum-libshi, the son of Adaiti, the servant of the god Adad." [No. 102,497.]
14. Cylinder-seal engraved with figures of the god Nergal and an attendant deity, and the inscription "Sin-rimeni, the son of Mannum-belum-ili, the servant of Nergal." [No. 102,498.]
15. Shell cylinder-seal engraved with rows of birds and fishes, in three registers. [No. 102,502.]
16. Green stone cylinder-seal engraved with figures of ibexes arranged in three rows. [No. 102,506.]
17. Shell cylinder-seal engraved with a scene representing a suppliant being led into the presence of a deity of vegetation. On the left is a figure bearing a kid as an offering. [No. 102,501.]
18. Limestone cylinder-seal, engraved with scenes representing a shepherd leading a flock of goats out of a pen, and a potter making a water-pot, and with various divine emblems. [No. 102,508.]
19. Chalcedony cylinder-seal engraved with a figure of a hero in conflict with a bull and a large bird. Persian Period. [No. 102,514.]
20. Haematite cylinder-seal of "Nergal-iddina, the son of Ili-turam, the servant of Shid-lamtaea,"

engraved with a scene representing a goddess in an attitude of adoration before a god.

[No. 102,563.]

21. Haematite cylinder-seal engraved with figures of the West Semitic god Martu, and an attendant goddess. [No. 102,496.]
 22. Mother-of-emerald cylinder-seal engraved with a scene representing the worship of the god Ninib, and the inscription, "Ninib, the mighty hero, the son of the god Enlil." [No. 105,555.]
 23. Haematite cylinder-seal of Sin-imguranni, engraved with a scene representing the worship of a god; the inscription has been defaced intentionally. [No. 102,554.]
 24. Haematite cylinder-seal engraved with figures of Adad, the Storm-god, and his wife the goddess Shala. [No. 102,551.]
 25. Haematite cylinder-seal engraved with figures of Hittite deities and divine emblems. [No. 102,580.]
 26. Chalcedony cylinder-seal engraved with figures of the Sacred Tree, the Winged Disk and mythological beings. [No. 102,572.]
 27. Jasper scarab engraved with a scene representing a priest, or worshipper, standing in the presence of a seated god; above is a crescent. [No. 102,570.]
 28. Agate scaraboid engraved with the figure of a Persian sphinx and divine emblems. [No. 102,569.]
 29. Haematite Gnostic amulet, in its original bronze setting, inscribed with sacred symbols and magical formulae. [No. 48,024.]
- iv.—A collection of nine cylinder-seals, among which may be noted :
1. Chalcedony cylinder-seal of the lady "Rikhadi [tum], the daughter of Sin-gamil, the handmaid of Pa-bilsag." [No. 102,595.]
 2. Haematite cylinder-seal engraved with a scene representing a goddess leading the owner into the presence of the god Ninshakh. [No. 102,598.]
 3. Haematite cylinder-seal, engraved with a scene connected with the worship of Shamash, the Sun-god, and his wife Aa. [No. 102,590.]
- v.—Three cylinder-seals :
1. Serpentine cylinder-seal engraved with a scene representing a deity leading a worshipper, who is followed by an attendant, into the presence of the Corn-god. The god is seated on a heap of grain, and holds three ears of corn in his hand; from behind sprout ears of corn. [No. 102,990.]
 - 2, 3. Two shell cylinder-seals. [Nos. 102,991-2.]

iii.—HITTITE, ETC. :—

A miscellaneous collection of 101 objects from Tell-Bashar, Tell-Khālid, Tell-Ahmar, Manbig, Tell-Ghranim, Jerābis, and Aleppo. On many of the seals simple figures are cut, and most of them are pierced and were probably worn on a cord. Among the objects are three native terra-cotta figures, three scarabs (about B.C. 1250-1050, and 850-650), and a cylinder-seal on which are cut figures of deities.

[Nos. 102,615-102,715.]

iv.—HIMYARITIC, PALMYRENE, ETC. :—

1. Four-sided sepulchral monument inscribed with a portion of an inscription recording the dedication of gifts to the god Al-Mokah by a number of men belonging to the tribe of the deceased. About B.C. 900.
- 2, 3. Portions of inscriptions recording the dedication of certain lands and goods to Al-Mokah by the tribes Beni Abneth and Amram. About B.C. 700.
4. Portion of a forged inscription.
5. Hard grey stone bust of an official, who holds in his hands an orb inscribed in Himyaritic with the name Sagan; on the right shoulder are four short lines of Greek, which appear to contain a transcript of the deceased's name. IIInd or IIIrd century A.D.
6. Hard grey stone seated figure of Dimitrios Sotir (*sic*), an official, holding a sceptre in his right hand. IIInd or IIIrd century A.D.
7. Hard grey stone figure of a bearded man with a serpent twisted round his shoulders and body; on the serpent are traces of a Palmyrene inscription. IIInd or IIIrd century A.D.

III.—Presents.

1. Massive limestone door jamb inscribed with the names and titles of Mer-en-Ptah, king of Egypt, about B.C. 1250. From the temple of Mer-en-Ptah at Memphis.
2. Limestone cornice slab inscribed with the names and titles of Sa-Amen, king of Egypt, about B.C. 1000, placed between two kneeling figures in relief. XXIst dynasty (from Tanis). From the temple of Sa-Amen at Memphis.
3. Limestone sepulchral tablet on which are sculptured the figure of a man and two human ears.
4. Similar tablet sculptured with a figure of a man worshipping Ptah; behind the god is a human ear.
5. Sepulchral tablet of Māhu sculptured with rows of human ears.

Nos. 3-5 probably belong to the XXth dynasty.

6. Light blue glazed model of a table of offerings. Ptolemaic Period.
7. Twelve rough earthenware conical supports for a table of offerings. Late period.
Presented by the Egyptian Research Account.
8. Hand of a mummy of the period of the New Empire.
Presented by W. H. Dennett, Esq.
9. Green jasper seal on which are cut a male head and a Pehlevi inscription. *Presented by Lady Maunsell.*
10. Greystone lion's head from a frieze in the palace of Tiridates, king of Armenia, A.D. 100-300.
Bequeathed by Captain J. Buchan Telfer, R.N., F.S.A.
- 11, 12. Two Babylonian haematite cylinder-seals engraved with scenes representing their owners being led into the presence of their patron deities. One is inscribed with the owner's name—Ilushu-bani.
Presented by Mrs. Daubeny.
13. Portion of a copper knife found by W. K. Loftus at Tell-Sifr in Southern Babylonia, in December 1859.
Presented by Captain J. Spiller, F.G.S.
14. A collection of thirty-four objects chiefly from Bêt Jibrîn, near Hebron, consisting of:—
Three long, two-handled glass jars, with fluted sides; five glass vessels, or jugs; two cups; two bottles; a lamp; a *faïence* vase; a glass scarab; a haematite scarab; six stamped glass weights, and twelve stamped terra-cotta plaques.
Presented by Mrs. H. H. Way.
15. Cast of a seated figure of an Assyrian king, and cast of two Hittite Inscriptions. From Kara Dagħ in Asia Minor.
Presented by Miss Gertrude Lowthian Bell.

E. A. Wallis Budge.

DEPARTMENT OF GREEK AND ROMAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, &c.*

A gallery has been built for the temporary accommodation of the casts of antique sculpture recently transferred from the Victoria and Albert Museum, and the cleaning and mounting of the casts is in progress.

In the Archaic Room the sculptures from Branchidae have been moved and remounted; they now stand in two rows flanking the central gangway, in a manner suggestive of their original position. The friezes from Xanthos have also been moved and remounted together on the South wall, and many of the slabs have been cleaned and repaired. The arrangement of other sculptures in the room has been improved.

The Roman altar and the two lavers from the collection of the Duke of Sutherland at Trentham Hall, have been repaired and set up in the Hall of Inscriptions. Statues in the Graeco-Roman Annexe have been re-arranged.

Wall-cases in the First Vase Room have been fitted for the exhibition of objects in Porcelain. The collections of carved Ambers and Ivories have been re-arranged in a table-case in the Terracotta Room Annexe, and another table-case in the same room has been fitted for the reception of miscellaneous antiquities. A case in the Gold Ornament Room has been refitted.

Eighteen new moulds have been made from the sculptures. Two marble heads and four inscribed or sculptured slabs have been mounted on stone pedestals; 36 ambers, 10 ivories, 81 terracottas, and 84 bronzes, gems and gold ornaments have been mounted on wooden blocks.

The collection of mosaic pavements, a marble crater, 2 heads, an inscribed block, a sculptured slab, a candelabrum, 90 fictile vases, 100 terracottas, 36 bronzes, 16 gold or silver ornaments, 85 ivories, and 23 ambers have been cleaned or repaired.

627 objects have been registered, 2,569 numbered; 259 labels have been written; 180 labels have been printed, and 23 framed in the Department.

The Account of the British Museum Excavations at Ephesus (1904-5) has been published, and a 4th edition of the Guide to the Sculptures of the Parthenon has been issued. A Guide to the Exhibition of Greek and Roman Life, and a Catalogue of the Roman Pottery have also been published.

Progress has been made with the preparation of reproductions of the Sculptures of the Parthenon in folio, the Catalogue of

Gold Ornaments, the Catalogue of Lamps, and the Catalogue of Vases, vol. I.

Students. — The number of visits to the Departmental Library for purposes of research has been 457; there have been 1,465 other visits to the Staff for purposes of enquiry; and 1,614 attendances of students in the Sculpture Galleries have been entered.

II.—Acquisitions.

By Purchase.

I.—Bronze.

1. The arm of a couch decoratively treated. On the upper end is a bust of Athena, or Roma; on the lower end a bust of a woman veiled, perhaps Hera, and between them is a figure of Dionysos, reclining and holding a wine cup. Graeco-Roman work.

2. Statuette of Apollo of archaic Greek style, wearing a chlamys across his shoulders and holding in his right hand the horns of a goat. The feet are broken away. On the left leg is an inscription: *Γανναπίδας τ.πόλωνι.*

3. Finger-ring, engraved on the bezel with an intaglio design of Victory holding a vase. It is studded with a gold and a silver nail.

4. Vase of spherical shape with a wide-spreading mouth. Probably a cupping vessel.

5. Horse's bit, with sharp discs and spiked cylinder on the bar, after the pattern described by Xenophon *de Re Eq.*, X. 6. From Achaia. (*British Museum Guide to Exhibition of Greek and Roman Life*, p. 203, Fig. 211.)

6. Two handles, each consisting of a ring hinged to a circular plate on which is embossed a lion's head.

II.—Gems.

1. Grey agate lenticular intaglio of "Minoan" style: a stag attacked by a bird and dog.

2. Carnelian scarab intaglio of Etruscan style: a figure of Athena armed with helmet, spear and shield.

III.—Gold.

1. Band ornamented with embossed stars, and fitted at each end with silver clasp. From Cameiros.

2. Pair of earrings in the shape of dolphins; in the mouth of each is a bead, the bodies are of agate and the tails of twisted wire.

3. Large wreath of oak leaves and acorns, with two cicadas and a bee attached to twigs, and the clasp in the shape of a bee.

4. Long plain band, pierced at intervals along the edge. (3 and 4 were found together in a tomb at the Dardanelles).

5. Pair of small reels; ornamented on one side with a rosette surrounded by concentric circles, and on the other with a head of Helios, facing, in relief, as on the Rhodian coins. From Rhodes.

IV.—Marble.

1. Head of a youth of supposed Polycleitan style, of the type of the "Westmacott athlete" (Greek, 5th century B.C.).

2. Disc, inscribed spirally—Γνάθωνος τόδε σῆμα, θέτο δ' αὐτὸν ἀδελφῇ ἡλίθιον νοσελεύσασα. Probably the cover of a sepulchral urn. (Cf. *Jahrbuch d. k. deutsch. arch. Inst.*, 1897, pl. 1.)

V.—Pottery.

Cantharos, black ware, circled by a vine-wreath in white and gold, raised. Above the wreath is an inscription, Διονύσου.

VI.—Silver.

1. Wreath of oak leaves and acorns, delicately modelled; the cups of the acorns are of gold.

2. Part of a necklace; a plaited band ornamented with flowers, from each of which hangs a twig of two oak-leaves and an acorn. The centres of the flowers and the acorns are of terracotta. At the end of the band is a clasp ornamented in filigree. (1 and 2, from the province of Valencia in Spain.)

VII.—Stucco.

A series of fragments of wall-plaster, with various decorative designs painted in colours. From Rome.

VIII.—Terracotta.

1. Statuette of Aphrodite, nude, balancing herself with her left arm while she ties the sandal on her left foot. Found near Palermo.

2. Aphrodite seated on a swan and holding Eros on her right knee.

3. Eros asleep on a dolphin, the waves indicated below.

By Donation.

I. Ivory instrument, consisting of two crossing limbs hinged together; apparently a folding balance for testing coins. It is decorated with small incised circles.

*Found near Ephesus; and
presented by D. G. Hogarth, Esq.*

II. Greek inscription, engraved on a marble slab; a dedication of some object to Apollo and "the Italic Gods" by a number of named persons, on the occasion of their enrolment as members of certain religious associations. Dated in the Consulship of L. Licinius Lucullus and M. Aurelius Cotta. (74 B.C.)

Presented by A. R. Hardie, Esq.

III. Bronze statuette of a negro boy mounted on a high base. The figure, which is infibulated, is of a strong thin-limbed type; he is nude and stands with his left foot advanced, right hand on hip, and left hand raised above the head. On the palm of the hand are marks of an attachment, as if it had supported some heavy object, such as a lamp, and the eyes are directed towards the hand. The base is unusually large, circular in shape, and supported on three lion's feet. Both statuette and base have an uncommonly fine smooth grey patina. A bronze knotted club, which was found with the statuette, but does not belong to it, was presented at the same time.

Graeco-Roman work of the best period.

*Presented by W. C. Alexander, Esq., through
the National Art Collections Fund.*

IV.—1. Terracotta statuette of a woman, heavily draped in chiton and himation, holding a fan in her left hand. Greek work.

2. Terracotta statuette of a woman wearing chiton and himation, the latter only below the waist, and holding a long alabastron in her right hand. Greek work.

3. Terracotta vase in the shape of a seated youth wearing a radiate crown. Greek work.

4. Fictile lamp of flat Roman type, decorated with a relief representing Aphrodite standing between two altars; on one altar stands a group of the three Graces, on the other a branch and a bowl. On the bottom is the potter's stamp, Ἐλπιδηφύρου.

5. Fictile jug, of Corinthian fabric; black, with white and purple bands.

Presented by S. Mavrojinis, Esq.

V.—1. Greek inscription, engraved on the edge of a marble slab. It records the dedication of a statue or group of which the slab was apparently the base. The text is, Νίλω γοιμωτάτω Ἀλέξανδρος ῥήτωρ.

2. Greek inscription on a limestone slab: ΠΑΧΙΑΤΗΣ ΓΣΙΔΙΣΤΟΠ.

3. Bronze lamp and holder, bronze star, and two strainers.

4. Small alabaster human figure of the type which is found among early remains in the Cyclades.

5. Calcite, steatite and other beads and fragments, some of which are unfinished scarabs.

6. A series of rough painted terracotta statuettes, including parts of three human figures, a female head, a head of a cat and other animals, and a fragment of a mould of a Gorgoneion.

7. A quantity of small vases and fragments of pottery of late date, painted in bright colours with birds and various patterns.

8. A mass of dishes in blue faïence, fused together in baking, and two fragments of the same material.

Excavated by Professor Flinders Petrie on the Temple sites of Athribis and Memphis, and presented by the Egyptian Research Account.

VI. A series of pottery fragments of the prehistoric period from various Greek and Cretan sites.

Presented by H. R. Hall, Esq.

VII. A series of pottery fragments of neolithic date from recent excavations at Dimini, Drachmani, and Chaironeia.

Presented by J. P. Droop, Esq., and A. J. B. Wace, Esq.

VIII. Fictile pyxis of early Attic fabric; cream-coloured, with figures in black. The subject seems to be a Dionysiac scene, and the figures include armed horsemen, a Satyr, a mule, and dancing women. From Boeotia.

Presented by A. van Branteghem, Esq.

IX. A series of electrotype reproductions of gold and silver work of the Mycenaean age, including inlaid daggers, rings and repoussé plaques from the shaft-graves at Mycenae, and the two gold cups from Vaphio.

Presented by Miss C. A. Hutton.

X. Plaster cast taken from a copy of the Elche head.

Presented by H. Sandars, Esq., F.S.A.

XI. Plaster cast of a sphinx in black steatite, of the "Minoan" period, which was found by the Italian excavators at Hagia Triada.

Presented by C. H. Smith, Esq.

Arthur H. Smith.

DEPARTMENT OF BRITISH AND MEDIÆVAL ANTIQUITIES AND ETHNOGRAPHY.

I.—*Arrangement, Cataloguing, etc.*

Prehistoric Section.—A temporary exhibition of casts of neolithic slate amulets of axe-head form has been arranged in table-case K in view of a recent article on the evolution of iconic forms; and diagrammatic labels added to wall-cases 108 and 113. Permanent labels have been provided for the German and Danish pottery in wall-cases 31-36; and type series of neolithic implements exhibited in wall-case 137.

Late-Keltic and Gaulish Sections.—Wall-cases 75, 76 have been cleaned, repainted and refitted, and the Edelmannt antiquities of Bronze and Early Iron (Hallstatt) periods arranged and labelled, a number of large painted platters being protected by glass-topped boxes. Bronze Age specimens in the Morel collection have been transferred to wall-cases 63, 64.

Romano-British Section.—The labelling of red and other wares has been continued in accordance with the published catalogue, and the series of lamps in table-case F re-labelled.

Anglo-Saxon Room.—New labels have been provided for the Irish series of bronzes; and a series of fictile ivories stored in drawers. Eight wall-cases have been repainted.

Mediæval Room.—This room has been re-decorated, and wall-cases 1-3, 50-2 repainted. Examples of chain-armor have been exhibited in a frame; and the permanent labelling of sections continued.

Glass and Ceramic Room.—The collection of Dutch and German glass has been re-arranged in a standard case, and the Turkish and Damascus pottery exhibited with permanent labels in another. The Persian ware in wall-cases 30-33 and table-case A has been re-arranged.

Asiatic Saloon.—The oriental bronzes, pottery from Siam and Borneo as well as sections of Chinese porcelain, have been re-arranged and labelled; and an inventory made of the contents of the drawers. Part of the Stein collection from Chinese Turkestan has been exhibited in wall-cases 92-7 and table case H, and the remainder is now in the Museums of Calcutta and Lahore.

Gallery of Religions.—The gallery has been re-decorated, and the wall-cases cleaned throughout.

Ethnographical Gallery.—Ornaments from Hawaii and the Marquesas Islands have been exhibited in three frame-cases, and the upper wall-cases in two sections cleaned. Part of the London Missionary Society's collection from the Pacific has

been arranged in a frame-case and labelled; and the large Solomon Island case cleaned and re-arranged. The Easter Island collection has been arranged and labelled; and canoes from Australia and Samoa and a large steering oar from Fiji exhibited above the wall-cases. Collections from the South Congo Free State and from S.E. Africa have been entirely re-arranged, and a larger number of recent acquisitions exhibited. Four large photographs have been framed and exhibited in the African section, and a large friction-drum from the East Africa Protectorate placed above the wall-cases.

American Room.—Objects from ancient Peruvian graves have been exhibited in two table-cases and five drawers accessible to the public; the Peruvian pottery has been permanently labelled. The West Indian series has been re-arranged and labelled in part.

Registration, etc.—The registration of current acquisitions has been continued, and 4,839 objects have been added, including ethnographical specimens.

Photographs to the number of 76 have been taken in the Department for purposes of illustration and reference, and 71 extra prints prepared. Typewritten labels to the number of 675 have been cut and bordered, and 24 printed on the hand-press; 63 mounting boards papered, and 546 objects mounted. There have been prepared 711 blocks, labels, frames, plinths, and miscellaneous fittings.

The plinths of sculptures on the north-east landing have been cleaned, and Roman pavements at Hemsforth, Wilts, raised and transferred to the museum.

Registration numbers have been painted on 2,475 specimens, and 698 permanent labels written.

Catalogues.—The catalogue of Ivory Carvings has been prepared for the press, and further progress made with the guide to the Ethnographical Gallery. A slip catalogue of the Siamese and Corean pottery has been made, completing the oriental ceramic section; and the Chinese bronzes have been similarly catalogued.

Students.—Three thousand two hundred and sixty-seven students and visitors have been received in the Department. The Battersea Field Club and the Selborne Society have been conducted through the Ethnographical Gallery by a member of the Staff.

II.—Acquisitions.

(1.) *Prehistoric and Early British Antiquities*:—

(a.) *Stone Age.*—Four palæolithic implements found by the donor in a gravel-pit at Kennet, near Newmarket; given by C. R. Jennings, Esq.

Stone celt from a holy well, Aran Islands, Co. Galway, and perforated axe-hammer found under a doorstone at Messingham, Lincs. ; given by C. H. Read, Esq., LL.D.

A series of diminutive flint implements and worked flakes found by the donor between Blenheim and Ditchley, Oxon ; given by the Viscount Dillon, F.S.A.

Sandstone mattock (?), perhaps of more recent date, found near Llandulas, Denbighshire ; given by A. B. Elliott, Esq., F.R.C.S.

(b.) *Bronze Age*.—Ornamented bronze celt with flanges, found in the Thames, near Medmenham Abbey, Bucks, 1908 ; given by C. H. Read, Esq., LL.D.

Bronze dagger-blade with three stout rivets, found at Sproughton, near Ipswich : figured and described in *Proceedings of the Society of Antiquaries of London*, vol. xxii., p. 87.

Small bronze dagger-blade found 4 ft. deep at Firle, Sussex, 1906 ; given by J. G. H. Stephenson, Esq.

(c.) *Early Iron Age*.—Ornamented bronze brooch of La Tène I. type, from the Thames at Brentford Ferry, 1908 ; given by C. H. Read, Esq., LL.D.

(d.) *Foreign*.—An important series of flint and stone implements, and implements, ornaments and pottery of the Bronze and Early Iron Ages, chiefly from Hohenzollern and the Swiss Lakes, and partly published in *Prähistorische Blätter*, 1892-1901 ; collected by H. Edelman, of Sigmaringen, and given by the Rt. Hon. Sir John Brunner, M.P., and Sir Henry Howorth, K.C.I.E.

Four pottery vessels of the late Bronze or Hallstatt period, found by the donor in graves at Karnsdorf, near Luckau, Lower Lausitz, 1896 ; given by Dr. P. O'Connell Finigan.

Chert arrow-head with tang found on Mechiskan River, south of James Bay, Canada ; given by W. H. Brown, Esq.

Two stone daggers with perforated tangs from China.

(2.) *Romano-British* :—

A tessellated pavement with Venus rising from the sea and dolphins in the border, another from a passage and squares of tile and Kimmeridge shale used as flooring, from a Roman villa discovered in 1908 at Hemsforth, near Wimborne, Dorset ; given by the Lord Alington, C.V.O.

Portion of tile, stamped **HON AVG ANDRIA** found during excavations at Pevensey Castle, Sussex, 1902, and figured in *Proc. Soc. Ant.*, xxi. 411 ; given by Chas. Dawson, Esq., F.S.A.

Tent-peg of oak and leather disc for securing the dress, from the Roman camp at Newstead, near Melrose, Roxburghshire ; given by Jas. Curle, Esq., F.S.A.

Ten specimens of Gaulish redware dredged from the Pudding Pan Rock, Herne Bay, Kent, described in *Proc. Soc. Ant.*, xxi. 268.

Pottery bowl of black ware with burnished lattice pattern, found in Old Broad Street, City of London; given by the late F. G. Hilton Price, Esq., D.I.R.S.A.

Black pottery fragment of urn, with grotesque mask in relief, found in Tokenhouse Yard, City of London, 1865; given by F. W. Rudler, Esq., I.S.O.

(3.) *Anglo-Saxon and Foreign Teutonic* :—

A remarkable bronze bowl of early British character, with two of three escutcheons for attaching chains for suspension, the bronze and iron mounts of a wooden bucket, an iron spear-head and other objects found at Ewelme, Oxon, on the site of a cemetery; given by T. H. Powell, Esq. The bowl is figured and described in *Proc. Soc. Ant.*, xxii. 72.

Bronze bowl with one of the enamelled bird-shaped escutcheons, spear-heads and knife, and seven bone draughtsmen, found together at West Ham, near Basingstoke, Hants., and described with illustrations in *Proc. Soc. Ant.*, xxii., 81-3; given by Dr. S. Andrews.

Plaster-cast of the runes on a broken and buried piece of one of the upright stones of the Brodgar circle, Stenness, Orkney, discovered in 1907; given by the Council of the Viking Club, through Albany F. Major, Esq.

Circular brooch of pewter, probably of the 10th century, found near the Priory Gate, Castle Acre, Norfolk, and figured in *Proc. Soc. Ant.*, xxii. 56; given by E. M. Beloe, Esq., F.S.A.

Openwork pommel of pewter found in London; given by the late F. G. Hilton Price, Esq., D.I.R.S.A.

A series of Alemannic antiquities, comprising weapons and ornaments from grave-rows in Hohenzollern and neighbourhood, collected by H. Edelmann, of Sigmaringen, and given by the Rt. Hon. Sir John Brunner, M.P., and Sir Henry Howorth, K.C.I.E.

Bronze openwork disc, gilt and inlaid with garnets, probably from north-west Europe and of the 7th century.

Openwork buckle-plate of bronze from a Merovingian cemetery at Cunfin, Dépt. Aube, and a bronze equal-armed brooch, both of the 7th century; given by Jas. Curle, Esq., F.S.A.

(4.) *Mediæval and Later* :—

(a.) *British*.—Morse ivory draughtsman carved in relief with an angel raising the pall from a bier and two weeping figures, with traces of colouring, 12th century; given by the National Art Collections Fund.

Silver ring-brooch with filagree scrolls, found at Maldon, Essex, late 13th century; given by E. Timperley, Esq.

Bronze matrix of seal of William de la Pole, Marquis of Suffolk, 1445-50, with the arms of Dreux and canton of Brittany.

Silver matrix of seal, with the arms of Somer, co. Salop, 17th century.

Leaden matrix of seal, **ADE DE BRVNO**, and bronze buckle-plate embossed with a wyvern, both 13th century, from Dunwich; given by P. W. P. Carlyon-Britton, Esq., F.S.A.

Three gold seals, with the arms of Temple (Viscount Palmerston), and Wellesley (Duke of Wellington), and the crest of Cracherode; given by H. J. Ellis, Esq.

Gold pendant-reliquary, engraved with the Good Shepherd and St. Catherine, 15th century, found on the beach near the ruins of Reculver Church, Herne Bay, Kent, and figured in *Proc. Soc. Ant.*, vi. 510.

Alabaster panel carved in relief with the Betrayal, with traces of colouring on the background, early 15th century.

Set of guinea-scales and weights in a box, and folding guinea-balance; also a pewter badge representing a figure with child on back and a basket or net, found at Deptford Creek, 1907; given by the late F. G. Hilton Price, Esq., D.R.S.A.

Oval silver watch, of the 17th century, engraved *Thos. Nickson fecit*.

Wooden standing-cup with cover, engraved with coats of arms and texts from Scripture, and birds, animals, and flowers on the foot, described in *Proc. Soc. Ant.*, vii. 77.

Bronze cooking-pot with arched handle, octagonal body and two spouts, probably of 15th century.

Oval bronze dagger-pommel, with shield of arms and supporters, found at Broyles, Chichester; given by A. W. F. Fuller, Esq.

Horn snuff-box inscribed **ORATORIO OF JUDITH**, and brass snuff-box with bust of Shakespeare and inscription relating to the Commemoration, 23 April, 1816; given by John Jennings, Esq.

Copper stamp in intaglio for moulding applied ornament on pottery, 18th century.

(b.) *Foreign*.—Pair of bronze negro-busts with traces of gilding, Italian, late 16th century; given by J. Brighthouse, Esq.

Brass tobacco-box with various coats of arms and double masks on a floral ground, Dutch, 17th century; given by A. A. de Pass, Esq.

(5.) *Ceramic and Glass Collections*:—

(a.) *Oriental Wares*.—Green-glazed Chinese bowl with floral designs in relief and yellow-glazed kylin, both attributed to the Han dynasty (206 B.C.—220 A.D.), also a Chinese seated figure of biscuit ware; given by J. Eumorfopoulos, Esq.

Octagonal Chinese porcelain plate, with arms of Carmichael (Suffolk) and motto **TOUJOURS PREST**, 18th century; given by Henry Hudson, Esq.

Earthenware dish with prunus sprays in colour, probably of Banko ware, and porcelain bowl of Nabeshima ware, Japanese, 19th century; given by R. Phené Spiers, Esq., F.S.A.

Japanese porcelain wine-pot inscribed and dated (1850); given by R. L. Hobson, Esq.

Series of coloured mosaic tiles from the mosque Bibi Khany, at Samarcand, built by Timur in 1399 in honour of his favourite wife Mikhrban; given by W. Stern, Esq.

Twelve pottery tiles of various forms, glazed and coloured, Persian, 15th century.

Faïence bowl with incised design and coloured glazes from Fustât, and a number of glazed pottery fragments with coats of arms and other designs from Cairo, all 14th century; given by M. M. Stora.

(b.) *Continental*.—Pottery bowl with yellow glaze and guilloche pattern in white, manganese and turquoise blue, and similarly glazed jug with man-faced bird in manganese and turquoise blue, both Italian, 15th century.

Two pottery ewers with blue and green glazes and escutcheons at base of spout, one incised with a coat of arms; two glazed jugs, dish, and centre of another with head in medallion, from Faenza and Florence, early 16th century.

Octagonal cup and saucer of Dutch ware, probably made by de Calve, about 1700; given by Lt.-Col. G. B. Croft Lyons, F.S.A.

Two Böttger ware teapots, made at Meissen, early 18th century.

(c.) *English*.—Two stoneware figures, of a seated boy and girl, probably by Dwight of Fulham, and stoneware bottle of Fulham ware about 1700; given by Dr. Horace Jeaffreson.

Whieldon ware ornament in the form of a cornucopia with goat and kid; given by A. A. de Pass, Esq., through the National Art Collections Fund.

Two figures of a boy symbolizing Autumn, Plymouth porcelain; given by T. Charbonnier, Esq.

Two pottery plates with green diaper ground and Chinese subjects in colours, stamped "Wedgwood"; given by J. S. T. Audley, Esq.

Black-glazed milk-jug of Jackfield ware, 18th century, with details in gold; given by A. A. de Pass, Esq.

Plate of Bristol delft, white ground with wreath, enclosing legend, "Rolle for Ever"; given by Rennie Manderson, Esq.

Porcelain bird-call in the form of an owl, white with blue markings; given by E. Neil Baynes, Esq., F.S.A.

Series of mediæval pottery tiles with floral and animal designs, from Reading Abbey; given by Dr. J. B. Hurry.

(d.) *Glass*.—A Roman jug, three cups, and several unguent-bottles, also a bluish-green alabastron with yellow band, all from Smyrna; given by Mrs. C. van Lennep.

Blue bowl of the Greek period with blue and white cable band and border, found in Spain.

(6.) *Collection illustrating various Religions*:—

(a.) *Christianity*.—Dedication stone with inscription in Greek, "In the name of the Father, the Son, and the Holy Ghost"; obtained at Memphis, Egypt, and given by the Egyptian Research Account.

(b.) *Buddhism*.—Outfit of a Buddhist priest, belonging to the late Mr. C. J. W. Pfoundes, consisting of garments, medals and symbolic staff; given by Henry Bonar, Esq., H.B.M. Consul-General at Kobe, Japan.

Brass seated figure on lotus throne with pierced screen at back, Chinese, early 15th century; and another of wood, containing cash and a charm.

(c.) *Lamaism*.—Wooden and stone figures, mostly seated on lotus thrones, and two papier-mâché figures, one seated on a lion, both coloured.

(d.) *Taoism*.—Bronze-gilt figure of Hsi Wang-Mu, Queen of Heaven, on wooden base imitating rockwork.

(7.) *Oriental and Ethnographical*:—

Asia.—Two Chinese bronze figures of heroic personages, one of colossal size seated on a throne, both of fine workmanship, ornamented with paint and lacquer. Also a Japanese model ship on a processional car, used in religious festivals; given by Messrs. Yamanaka.

A fine Sassanian silver dish with gilt details, with a relief representing a Sassanian king (Sapor II., 310–381 A.D.) killing a buck; from Teheran.

An alms-bowl made of Seychelles nut carved and fitted with chains for suspension, Persian; given by C. Delaval Cobham, Esq., C.M.G.

A painted Chinese drum; given by J. Edge-Partington, Esq.

A pipe and a silk robe sacred to the household god of a family of the Mikir tribe; Khasi Hills, Assam; given by the Rev. R. Jones.

A Chinese cabinet of gambling appliances; given by Mrs. M. Langenbach.

Four pieces of decorated pottery of archaic type, from Baluchistan; given by J. H. Marshall, Esq., Director-General of Archæology in India.

A Chinese steelyard in wooden case; given by Julius Spier, Esq.

A bronze food-bowl in three sections, one gilt, with incised Arabic characters.

Two brass Lamaistic figures, and an iron helmet; from Lhasa.

An ethnographical series from Saráwak, Borneo; collected by Dr. Charles Hose.

A series of model fishtraps made by a native of the Malay Peninsula (Malay).

A model of a native tomb from Saráwak, Borneo.

Africa.—A large and very important series illustrative of the ethnography of the BaTetela and BaSonge tribes in the Congo Free State; being part of the material collected by the ethnographical expedition under the leadership of E. Torday, Esq.

An extensive ethnographical collection made chiefly among the Nandi tribe of the East Africa Protectorate, including a WaPokomo friction drum of unusual size; collected and given by A. C. Hollis, Esq., secretary to the Protectorate.

A series of charms and medicines as used by fetish men, from the Sherbro district, Sierra Leone; given by the Sierra Leone Government.

Two bark hats from the Guari tribe, S. Nigeria; given by Major N. Burrows.

An ethnographical series from the AKikuyu of the East Africa Protectorate; collected by Mrs. Hinde.

The outfit of an AKikuyu fetish-man; East Africa Protectorate; given by Dr. J. W. W. Crawford.

A native drum from East Africa and two clubs from the Negroes of the Upper Nile; given by Miss E. Henriques.

A brick from Gamburu and other remains, Northern Nigeria; given by Major C. B. Simonds.

Native "medicine" from Sierra Leone; given by G. B. Haddon Smith, Esq.

Four bronze plaques with figures in relief and one fragment; from Benin city; given by H. N. Thompson, Esq.

An old BaSuto war-axe with rhinoceros-horn handle carved with figures of giraffes, South Africa.

A large bow and powder-horn from the ANgoni of British Central Africa.

Oceania.—A large steering-oar from Fiji formerly belonging to an historical war-canoe named Silatolu, capable of carrying 300 men; given by J. M. Borron, Esq.

An ethnographical series chiefly from the Hervey Islands; given by E. Gruning, Esq.

An outrigger canoe from Samoa; given by the Rev. J. W. Sibree.

A flax bag ornamented with *Kiwi* feathers, from New Zealand; given by Mrs. Eustace Smith.

A very remarkable stone pestle with handle carved to resemble a bird, found ten feet below the surface of the ground in British New Guinea (see *Man*, 1908-1).

A very important series chiefly from the Dieri tribe, Australia.

A valuable collection of ethnographical objects from Rennell Island and the neighbouring islands; collected by C. M. Woodford, Esq.

America.—A large and important collection of ancient pottery figures from Mexico; given by A. P. Maudslay, Esq., F.S.A.

Two painted paddles and a woven bark hat, given by the natives to Dr. Hills, British Columbia; given by Miss H. M. Arden.

A clay seal from a native grave on the eastern slope of the Andes; given by Captain Stanley Musgrave.

A wooden pipe from the North West Coast, found in Hawaii; given by Herbert Purvis, Esq.

CHRISTY COLLECTION.

During the year, 856 objects have been entered in the Registration Catalogue. The Christy Trustees have acquired by donation, exchange and purchase the following objects, which they have transferred to the Trustees of the British Museum:—

I.—*Prehistoric Antiquities of Europe, Asia, and Africa*:—

Donations.—A series of obsidian flakes from the neighbourhoods of Kisumu and Naivasha, and two chalcedony flakes from the Tana River, East Africa Protectorate; given by C. W. Hobley, Esq., C.M.G.

A portion of a stone digging-stick weight from Voi, East Africa Protectorate; given by A. C. Hollis, Esq., Secretary to the Protectorate.

Exchange.—A series of palæoliths from Biddenham.

II.—*Ethnography of Asia*:—

Donations.—A model in marble of a Chinese tomb; given by Mrs. E. Arrowsmith.

A glass bead dug up at Bau, Saráwak, Borneo; given by E. Vernon Collins, Esq.

Two mats made by weavers of the Kinnara caste, Ceylon; given by A. K. Coomaraswamy, Esq.

A pen-case from Japan and a sword from Assam; given by A. W. F. Fuller, Esq.

Five idols and a bark girdle from Moerateweh, Dutch Borneo; given by the Rev. A. Rose Innes.

A sword-purse with coins, an iron war-fan and a wooden priest's sceptre, from Japan; given by C. Lund, Esq.

A basket from the Igorote of Bontoc, Philippine Islands; given by J. A. T. Mackenzie, Esq.

A lacquer cap from Japan; given by C. H. Read, Esq., P.S.A.

An ethnographical series from the Vedda of Ceylon; given by Dr. C. G. Seligmann.

III.—*Ethnography of Africa*:—

Donations.—Two wooden figures from the Sakalava of Madagascar; given by Colonel J. Barlow.

A series of weapons and other objects from the Ibo and neighbouring pagan tribes of Southern Nigeria; given by N. C. Duncan, Esq.

A collection of musical instruments and other objects from the Mohammedan and Pagan tribes of Northern Nigeria; given by M. J. Fremantle, Esq.

A charm and a snuffbox from South Africa, and a water-bottle from West Africa; given by A. W. F. Fuller, Esq.

A large series of weapons and ornaments chiefly from the AKikuyu and AKamba of the East Africa Protectorate; given by Dr. W. J. Hoyten.

A hide and bead dress taken from Sekukuni's kraal, South Africa, by the late Alan H. Ede, Esq.; given by Mrs. Kingsford.

A string of very large glass beads from the north end of Lake Nyasa; given by Norman H. Leys, Esq.

A Munshi dagger and two Hausa bracelets, Northern Nigeria; given by Montague P. Porch, Esq.

A doll and an ivory bracelet from Omdurman, an arm-knife from the Sudan, and a modern ivory from Benin; given by C. H. Read, Esq., P.S.A.

Two necklaces from South Africa; given by Mrs. C. H. Read.

A flint and steel from the Gola tribe, Liberia; given by H. Reynolds, Esq.

A series illustrative mainly of the musical and magical practices of various tribes of British Central Africa; given by Dr. H. S. Stannus.

Purchase.—A large and exceedingly important collection illustrating the ethnography of the BaNgongo and BaNgendi tribes of the BaKuba people in the Congo Free State. This collection consists of a selection from the extensive material obtained by the ethnographical expedition under the leadership of Mr. E. Torday, now in the Congo Free State, and affords an unusually complete illustration of the culture and art of a definite local group. Each specimen is accompanied by full information concerning its nature and use, information

which is all the more valuable since very little is known of these tribes, and they are as yet practically uninfluenced by contact with Europeans. In particular that section of the collection illustrating the carving of wood and the manufacture of textile fabrics is practically exhaustive, and will prove of exceptional value to students of primitive art.

IV.—*Ethnography of Oceania and Australia* :—

Donations.—A loom from Santa Cruz Island; given by the Rev. R. H. Codrington, D.D.

A wooden bowl from the Admiralty Islands; given by A. W. F. Fuller, Esq.

A so-called "gravestone," from the neighbourhood of Wilcania, New South Wales; given by W. A. Lang, Esq.

Six corroboree-sticks and a series of stone flakes from the Alroy desert, Northern Territory, Australia; given by W. Stalker, Esq.

V.—*Antiquities and Ethnography of America* :—

Donations.—A pottery bowl with painted design from the Hopi of Arizona; given by W. Crewdson, Esq., F.S.A.

A large series of stone and bone implements and pottery fragments, from Taltal, Chile; given by O. H. Evans, Esq.

A pottery head from Honduras, and an ornamented gourd from British Guiana; given by A. W. F. Fuller, Esq.

A series of stone celts from Grenada, and pottery fragments from Carriacou Island; given by W. Gillespie, Esq.

A series of stone arrowheads from Patagonia; given by D. Harford, Esq.

A series of stone arrowheads from the territory of the "Five Nations," and two stone pendants from Ohio, U.S.A.; given by R. L. Merrick, Esq.

A copy of the donor's work "Certain Mounds in Arkansas"; given by Clarence B. Moore, Esq.

A bowstring from British Guiana; given by C. Praetorius, Esq., F.S.A.

A jadeite bead from Mitla, Mexico; given by C. H. Read, Esq., P.S.A.

A copper celt, a stone celt, and a pottery whistle from Tuxtepec, Oaxaca, Mexico; given by E. E. Stevens, Esq.

Charles H. Read.

DEPARTMENT OF COINS AND MEDALS.

I.—*Registration and Arrangement.*1. *Greek Series*:—

2,616 coins from the Hamburger collection, and 233 recently acquired from various sources have been registered and incorporated.

Four "Uncertain" coins have been identified.

The series of Spanish coins has been rearranged, and expanded to two cabinets.

The Jewish series (regal and non-regal), and the series of Decapolis, Galilaea, Samaria, Nabathaea and Arabia have been rearranged and expanded, with the addition of new heading-cards where necessary.

New outside labels have been placed on most of the cabinets containing Greek coins.

119 Greek coins and 86 forgeries, hitherto kept in the King's cabinet, have been incorporated with the general collection.

The MS. bibliography of numismatics has been continued and brought up to date.

Impressions of numerous coins of Athens, the Tauric Chersonese, Pontus, and Bosphorus have been prepared and sent to the editors of the Berlin *Corpus* of Greek Coins.

11 series of miscellaneous Greek coins, and a large collection of Spanish coins, have been examined, and selections from them have been made for the Museum.

2. *Roman and Byzantine Series*:—

189 coins recently acquired have been registered and incorporated.

129 coins transferred from the Department of Greek and Roman Antiquities have been incorporated.

Numerous Roman coins, and forgeries of Roman coins, hitherto kept apart in the King's cabinet, have been incorporated with the general collection.

The series of Roman bronze coins has been expanded from 8 to 10 cabinets.

The impressions in white metal (108 in number) from the dies made by Cavino of Padua have been arranged and placed at the end of the series of Roman forgeries.

2,399 tickets referring to the Catalogue of Imperial Byzantine Coins have been written and placed beneath the specimens.

The coins of the "Empires" of Trebizond, Nicaea, and Thessalonica have been removed from the series of the Latin East, and placed in a separate cabinet.

Two series of Roman and Byzantine coins and two series of Ostrogothic coins have been examined, and selections from them have been made.

The coins found at Silchester during the excavations in 1907 have been examined and classified.

3. *British and Colonial Series* :—

274 coins, medals, and tokens, recently acquired, have been registered and incorporated.

30 English medalets from the Bank of England collection have been registered and incorporated.

The series of early British uninscribed coins has been arranged with fresh heading-cards.

A portion of the coinage of Henry VIII. has been re-arranged.

Various British, Irish, and Colonial coins, hitherto kept apart in the King's cabinet, have been incorporated with the series to which they belong.

The miscellaneous and political tokens of the 18th century (English and Irish) have been expanded and supplied with additional heading-cards.

The general series of English medals from 1642 to 1830 has been re-arranged and expanded. The cabinets have been repaired, and fresh labels affixed to them.

The series of large English medals and the medals of schools, societies, and clubs have also been re-arranged and expanded.

A selection of medals was made for the British Museum exhibition relating to the Earl of Chatham.

The series of the British Dependencies in the Further East has been expanded, and supplied with additional heading-cards.

An official list of coins struck at the Bombay mint since 1830 for use in India and the Eastern Colonies has been examined, and specimens not at present existing in the British Museum have been noted.

A series of gold and silver coins of the Brigantes has been examined, and a selection made.

A hoard (Treasure Trove) of 167 English silver coins of Henry VIII. and Edward VI., found near Monk's Bridge, Lindrick Common, Yorkshire, has been examined and classified, and 56 pieces selected for the Museum.

A small hoard (Treasure Trove) of English guineas (James II.—George II.), and Portuguese gold coins, unearthed at the Stag Inn, All Saints' Street, Hastings, has been examined and reported upon.

4. *Mediaeval and Modern Series* :—

840 coins, medals and jetons, recently acquired, have been registered and incorporated.

71 coins from the Freudenthal collection have been incorporated.

The Danish medals and various other European medals and coins hitherto kept apart in the King's cabinet have been incorporated with the general collection and new heading-cards have been supplied. This cabinet has now been completely cleared, and its upper portion has been refitted so as to accommodate 12 cabinets from the general collection. The whole of the Swiss series and the Townshend collection have been transferred to this position.

The German bracteates have been expanded and arranged, and the series of the coins of Belgium has been expanded from two to three cabinets.

The Dutch and Flemish jetons have been re-arranged and expanded to three cabinets, and the re-arrangement of the French jetons has been begun.

The series of Nuremberg counters has been expanded, and, as far as possible, classified under types and engravers' names.

Corrections have been made in the series of Italian medals, and the plaster-casts of medals not represented in the Museum have been arranged and labelled.

The Russian medals have been re-arranged in three cabinets, and 329 specimens have been supplied with explanatory tickets.

The compilation of the manuscript indexes to Engel and Serrure's *Traité de Numismatique du Moyen Age* has been continued, and the geographical index has been completed. The index of inscriptions has reached the end of the letter K.

A series of the coins of Cyprus and Malta, a large series of European coins and another of Dutch, Flemish, and French jetons, have been examined, and selections from them have been made.

5. *Oriental Series* :—

250 coins recently acquired, 41 from the Hamburger collection and 61 from the Cunningham collection, have been registered and incorporated.

241 coins of China and 286 of the Far East, acquired in past years, have been registered and incorporated.

The Sassanian series has been expanded and supplied with new heading-cards.

The series of the coins of the Amawi and Abbasid Khalifs has been expanded and heading-cards have been inserted giving dates in the Christian as well as in the Mohammadan Era.

431 coins of the Gupta dynasty have been weighed.

297 tickets referring to the Catalogue of the coins of the Moghul emperors of Delhi and 412 referring to the Catalogue of Oriental Coins, Vol. X., have been written and placed beneath the coins.

The series of the coins of Mysore has been expanded, arranged under denominations and mints and supplied with heading-cards.

Identifications and rectifications have been made in the series of Huns and Fanams (South Indian); also in the Local Indian series.

The specimens described in the Museum Catalogue of Chinese Coins, Vol. I, have been expanded and supplied with heading-cards.

3,654 coins of Japan from the Gardner, Morse, Tamba, and other collections have been amalgamated with the general collection, which has been divided into three classes, Government Issues, Provincial Issues, and Counters. Many new heading cards have been written.

Four collections of miscellaneous Oriental coins and a collection of coins of Annam and Siam have been examined and selections made from them.

II.—Catalogues.

1. CATALOGUES OF GREEK COINS.

Coins of Phoenicia, by G. F. Hill.

The coins of Aradus, Berytus, Botrys, Carne, Tripolis and Tyre have been weighed, arranged and described. Portions of the Introduction have been written, and descriptions prepared of the coins in the Hamburger collection.

2. CATALOGUES OF ROMAN AND BYZANTINE COINS.

Roman Republican Coins, by H. A. Grueber.

The printing of Volume II. has been proceeded with, and the portion from sig. S to sig. 3 B has been sent to press. Plates 88 to 112 have been prepared. The revision of the manuscript relating to the provincial issues in the East has been continued and completed.

Imperial Byzantine Coins (2 vols.), by Warwick Wroth.

The Indexes have been compiled, the printing of Volume II. completed, and the whole work has been published.

Coins of the Vandals, Ostrogoths, and Lombards, and of the Empires of Trebizond, Nicaea, &c., by Warwick Wroth.

This volume will be mainly supplemental to the Catalogue of Imperial Byzantine coins. In preparation for the work, a numismatic and general bibliography has been compiled, and 1,289 coins have been weighed. All the coins inscribed with

the names of Vandal kings have been arranged and described, as well as numerous anonymous coins of bronze which appear to be of Vandalic origin. A preliminary arrangement has been made of the coins bearing the names of the Kings of the Ostrogoths.

3. CATALOGUES OF BRITISH COINS AND MEDALS.

Medallic Illustrations of the History of Great Britain and Ireland, by Hawkins, Franks, and Grueber.

The preparation of Part VIII. has been continued and the Part has been published. The text and plates for Part IX. have been prepared and this Part has also been published. The preparation of Part X. has been begun.

4. CATALOGUES OF ORIENTAL COINS.

Coins of the Andhras and Western Kshatrupas, by E. J. Rapson.

The Introduction has been written, the indexes compiled and a map prepared, and the volume has been completed and issued.

III.—Acquisitions.

The total number of coins and medals added to the Department during the year 1908 was 5,543, of which 105 are of gold, 1,662 of silver, 3,681 of bronze, and 95 of other metals.

The following table shows the numbers of the new acquisitions classified according to the several series to which they belong:—

Class.	Gold.	Silver.	Bronze.	Other Metals, &c.	Total.
Greek	27	324	2,713	—	3,064
Roman	15	52	86	—	153
British and Colonial	6	144	72	13	235
Mediaeval and Modern	37	957	269	12	1,275
Oriental	20	185	541	70	816
Total	105	1,662	3,681	95	5,543

Of the above, 1,084 have been presented, viz., 15 of gold, 179 of silver, 805 of bronze, and 85 of other metals.

The following is a list of benefactors to the Department of Coins during the past year:—

The Committee of the Burlington Fine Arts Club; the Council of the British Olympic Association; the British Ornithologists' Union; the Linnean Society; the London School

of Economics and Political Science; the National Art Collections Fund; the Liverpool Foundation Committee; the British Commission for the Milan International Exhibition, 1906; l'Académie des Inscriptions, Paris; the Asiatic Society of Bengal; the Bombay Branch of the Royal Asiatic Society; the Government of Eastern Bengal and Assam; the Government of the United Provinces, India; the Government Museum, Madras; the Trustees of the Indian Museum, Calcutta; the Deputy Master of the Mint; the Director of Agriculture, Central Provinces, India; Edward D. Adams, Esq.; M. Otto Alcenius; M. E. Babelon; Prof. F. Pierrepont Barnard, F.S.A.; Colonel J. Biddulph; Captain J. R. Broun; R. Burn, Esq.; P. W. P. Carlyon-Britton, Esq., F.S.A.; O. Codrington, Esq., M.D.; J. G. Covernton, Esq.; Stanley Day, Esq.; James Dodds, Esq.; Dr. H. J. de Dompierre de Chaufepié; M. Longworth Dames, Esq.; P. H. Emerson, Esq.; R. Epstein, Esq.; A. J. Evans, Esq., F.R.S.; the late Sir John Evans, K.C.B.; Evelyn Grant Duff, Esq.; H. A. Grueber, Esq., F.S.A.; F. W. Hasluck, Esq.; Rev. A. C. Headlam, D.D.; G. F. Hill, Esq.; S. C. Hill, Esq.; Sir Henry H. Howorth, K.C.I.E., F.R.S.; W. J. Hughan, Esq.; Miss Hughes; Dr. F. Imhoof-Blumer; Signor Stefano Johnson; A. J. Kahraman Khan; Walter E. Ledger, Esq.; Messrs. Lincoln and Son; the Executors of the late Lady Lingen; Major E. H. Mackenzie Elliot; J. H. Marshall, Esq.; H. Nelson Wright, Esq.; Miss Newton; Señor Don G. J. de Osma; C. R. Peers, Esq., F.S.A.; Professor G. G. Ramsay; M. O. Retowski; A. P. Ready, Esq.; Max Rosenheim, Esq., F.S.A.; Bernard Roth, Esq., F.S.A.; Lady St. John; Horace Sandars, Esq., F.S.A.; C. D. Sherborn, Esq.; Vincent A. Smith, Esq.; Rev. L. Harding Squire; M. Tony Szirmai; Edgar Thurston, Esq.; W. H. Valentine, Esq.; H. Van den Bergh, Esq.; F. K. Viccajee, Esq., F.C.S.; Colonel Ernest Villiers; Surgeon-Major W. Vost; A. J. B. Wace, Esq.; Rev. H. K. Warrand; P. H. Webb, Esq.; Sir Herman Weber, M.D.; Dr. E. Willett; Colonel L. Worthington Wilmer; Captain C. P. Wilson; Leonard Wray, Esq., I.S.O.

IV.—*Remarkable Coins and Medals.*

1. *Greek Series* :—

HAMBURGER COLLECTION.

The most important acquisition made during the year, and indeed for many years past, is that of the Leopold Hamburger Collection of Greek Coins of Phoenicia, Palestine, and neighbouring countries, including a certain number of Roman coins relating to Judaea. The collection comprises 17 gold, 166 silver, and 2546 bronze coins. Among the more important pieces and series, the following may be mentioned :—

A series of silver shekels and half-shekels of the first four years of the Revolt under Simon Maccabæus, and a silver quarter-shekel of the fourth year (unpublished).

A remarkable series (about 60 from a hoard including many well preserved varieties) of the rare coins of Antigonus (40–37 B.C.).

Five aurei of Vespasian and Titus commemorating the subjection of Judaea.

A very large series of the extremely rare tetradrachms and of the drachms of the Second Revolt under Barcochba; viz., 1 tetradrachm of the rare first year, 9 of the second, and 10 undated; and 76 drachms, struck over Roman denarii.

Of the Cities of Phoenicia and Palestine, the following are the rarer mints represented in the collection: Abila (3 specimens), Pella (2), Anthedon (3), Antipatris (1), Esbus (5), Botrys (2), Diospolis Lydda (6), Eleutheropolis (10), Joppa (4), Charach-moba (3), Medaba (3), Nysa-Scythopolis (12), Rabbath-moba (3).

The commoner series, both among the regal coinage of Judaea, and among the city-coinages, are represented in great numbers.

Among the other coins of the Greek series acquired, the following are the most important:—

(a) Europe:—

Italy.—Lucania.—A rare bronze coin of the Lucani.

Presented by Percy H. Webb, Esq.

Panormus in Sicily. A tetradrachm of the ordinary types, but with a slow instead of a fast quadriga.

Segesta in Sicily. A didrachm of the fifth century; *obv.* Hound; above, head of nymph; *rev.* Head of nymph; inser. **ΣΕΓΕΣΤ** and, in small letters between the other letters, **AION**.

Selinus in Sicily. A specimen of the fifth century tetradrachm with the river-god Selinos sacrificing, draped instead of, as usual, nude.

Siculo-Punic.—5 Carthaginian tetradrachms.

Macedonia.—A fine bronze coin struck by the tyrannicide Brutus, probably at Pella or Thessalonica, shortly before the campaign of Philippi; *obv.* Head of Brutus; *rev.* Q and quaestorial insignia. Found at Thessalonica.

Thrace.—Two rare staters of King Skostokes, with the types and name of Lysimachus.

Pautalia in Thrace. A rare bronze coin of imperial date representing the river-god Strymon reclining, attended by four small figures symbolizing Gold, Silver, Wine, and Corn.

Cabyle in Thrace. A bronze coin; *obv.* Head of Apollo; *rev.* Artemis sacrificing.

Scythian Kings.—A rare bronze coin of Canites (1st cent. B.C.); *obv.* Head of Dionysus; *rev.* Thyrsus and bunch of grapes.

Ambracia in Epirus. A fine early stater of Corinthian types (before 480 B.C.).

Gortys in Arcadia. A rare bronze coin of this town as a member of the Achaean League.

Itanus in Crete. A silver diobol; *obv.* Head of Athena; *rev.* Star. Presented by Sir H. H. Howorth, K.C.I.E.

Lappa in Crete. A rare tetradrachm with Athenian types of about 200 B.C.

Olus in Crete.—An unpublished bronze coin; *obv.* Head of Britomartis; *rev.* Zeus seated.

Spain.—A large series of silver and bronze coins, representing among others, the rare mints of Norba Caesarina, Acinipo, Asino, Ilipa, Iptuci, Irippe, Bergium, Ecala, Iaca, Belsinum, Bursao, Samala, Icosa, Laelia.

Graccurris in Spain. A bronze coin of Tiberius; *rev.* Bull. Presented by H. Van den Bergh, Esq.

Malaga in Spain. A bronze coin of the 1st cent. B.C.; *obv.* Janiform head; *rev.* Star in wreath.

Presented by Oliver Codrington, Esq., M.D.

Ebusus (Ibiza).—4 bronze coins.

Presented by Horace Sandars, Esq., F.S.A.

Aedui of Gaul. A gold $\frac{1}{4}$ Stater; *obv.* Head of Apollo; *rev.* Chariot.

Sugambri.—Seven silver coins from a find at Bochum (Prussian Westphalia).

Britain.—A Brigantian gold stater of an unusual variety from the South Ferriby Hoard.

Presented by Bernard Roth, Esq., F.S.A.

Britain.—16 gold and 13 silver coins from the South Ferriby Hoard, of the tribe of the Brigantes.

Pannonia.—A rare silver stater of the chief Voivrix; *obv.* Male bust; *rev.* Lion.

Pannonia (?).—A rare silver stater; *obv.* Head of Dionysus; *rev.* Horseman; inscription, ΔHMHT .

(b) Asia and Africa:—

Bithynia.—A bronze coin of Prusias II. (180-149 B.C.); *obv.* Head of Hermes; *rev.* Lyre.

Juliopolis in Bithynia. A bronze coin bearing the name of the proconsul Maecius Plancius Varus.

Cyzicus in Mysia. An electrum "sixth" of the 5th cent; type, forepart of sphinx.

Mopsus in Cilicia. A bronze coin (second century B.C.) of this town under the name of Seleucia on the Pyramus.

Tarsus (?) in Cilicia. An imitation by the Satrap Mazaeus (whose name it bears) of the Athenian tetradrachm, of the second half of the fourth century B.C.

Salamis in Cyprus. A very rare gold $\frac{1}{2}$ stater struck by Menelaus, brother of Ptolemy Soter (312–306 B.C.); *obv.* **MEN.** Head of Aphrodite wearing mural crown; *rev.* Head of a goddess; Cypriote sign for *Ba.* Weight 42.5 grains.

Syria.—Some fine tetradrachms of Antiochus VII., Cleopatra and Antiochus VIII., Antiochus IX. and Alexander Zebina.

Presented by Major E. H. Mackenzie Elliot.

Parthia.—A remarkable tetradrachm of Phraates V. and his mother, the Italian slave-girl Musa. Only four specimens of this coin are known to exist.

Abysinia.—Three gold coins of King Bachasa (4th cent. A.D.).

Barce in Cyrenaica. A rare one-fifth stater; *obv.* Head of Zeus Ammon; *rev.* Silphium.

Carthage.—A rare gold quarter-stater of the usual types (head of Persephone and horse), but with serrated edge.

Mauretania.—An extremely rare and probably unique gold coin of Ptolemaeus (23–40 A.D.); *obv.* **PTOLEMAEVS REX** Head of the King r. diademed; *rev.* **PIETATI** Altar, and a date (probably year 15). Weight 48 grains. Only one other gold coin of this King is known, differing from this in the reverse type (a sella curulis with a wreath against it).

Mauretania.—A series of 99 denarii of Juba II., Cleopatra Selene, and Ptolemaeus, from a find near Rabat.

2. Roman and Byzantine Series:—

A very rare brass sestertius of Augustus, struck at Lugdunum, B.C. 10, commemorating the erection of the Altar of Rome and Augustus.

Presented by A. J. Evans, Esq., F.R.S.

An aureus of Julia Domna; *obv.* Head of the Empress; *rev.* **MATRI CASTRORVM:** the Empress sacrificing at an altar placed before two standards. Struck at Antioch during the Parthian War, 198 A.D.

A silver coin of Constantine X. Ducas (1059–1067 A.D.), Emperor of Byzantium. *Presented by F. W. Hasluck, Esq.*

A very rare and unpublished gold tremissis of Artavasdes, Emperor of Byzantium (742–744 A.D.) and his son Nicephorus, struck at Rome.

A series of 2 gold, 10 silver and 12 copper coins of the Ostrogothic and Lombard Kings, including two fine bronze pieces of Athalaric and Theodahat; an unpublished solidus imitated from the coinage of Anastasius I.; a gold coin attributed to Beneventum under the Lombards; three gold tremisses of Arichis II., Duke of Beneventum; and three unpublished silver denarii of Adelhich, Prince of Beneventum (853–878 A.D.).

3. *British and Colonial Series* :—(a) *Coins* :—

A penny of Aethelred II. struck at Sudbury (moneyer **TYNEMAN**).

A penny of Cnut struck at Norwich (moneyer **PATMAN**).

A Noble of Henry V. with pierced cross mint-mark, and annulets and trefoils as ornaments and stops.

Three 18th century English and Irish half-penny tokens, and a token of New Zealand of 1871.

Presented by Prof. F. Pierrepont Barnard, F.S.A.

(b) *Medals* :—

A pewter Coronation Medal of William and Mary with their busts (cf. "Medallic Illustrations," I. 666,33, where it is stated that "no specimen of this medal is now known to collectors").

Presented by P. W. P. Carlyon-Britton, Esq., F.S.A.

A series of 39 bronze and 2 silver medals of the taking of Porto Bello (1739) and Fort Chagre (1740); and a proof in lead of the obverse of a medal with portrait of Admiral Vernon (1741).

Presented by C. P. Wilson, Esq.

A rare gold medal of the taking of Porto Bello by Admiral Vernon (1739); the only specimen known in this metal of the large series of medals referring to this event.

A silver medal commemorating the voyage of Sir Francis Drake round the world.

Presented by Edward D. Adams, Esq.

The centenary medal (in bronze) of the Royal Horse Artillery, Light Division.

Presented by Colonel Ernest Villiers.

A gold medal of the Jubilee of the British Ornithologists' Union.

Presented by the Union.

A silver medal of the Darwin-Wallace commemoration (1908).

Presented by the Council of the Linnean Society.

Six prize medals (silver, copper and bronze) of the Olympic Games.

Presented by the Council of the British Olympic Association.

A specimen in silver of the Brunel Prize Medal (London School of Economics, Railway Department).

Presented by the Governors of the School.

A silver medal commemorating the 700th celebration of the Foundation of Liverpool, 1907.

Presented by the Liverpool Foundation Committee.

A bronze medal commemorating the Milan Exhibition, 1906.

Presented by the British Commission.

A specimen in silver of the Hutchinson Memorial Medal.

Presented by the Governors of the London School of Economics.

A silver specimen of the "Ramsay Gold Medal" (University of Glasgow).
Presented by Prof. G. G. Ramsay.

A silver Masonic medal with portrait of W. J. C. Crawley.
Presented by W. J. Hughan, Esq.

A silver portrait medal of P. H. Emerson, by the sculptor, Havard Thomas.
Presented by P. H. Emerson, Esq.

A series of 9 silver medals and plaques, by M. Tony Szirmai, commemorating various events from 1902 to 1907.
Presented by the Medallist.

4. *Mediaeval and Modern Series* :—

(a) *Coins* :—

A series of 21 gold, 79 silver and 2 bronze local French coins, of which the following are the more important :—

Navarre.—Jean (1441–1479), silver gros. Jean and Cathérine (1484–1512), two rare gold écus. Ferdinand (1512–1515), quadruple ducat, with portrait. Henri d'Albret (1516–1555), écu au soleil and écu à la croissette.

Roussillon.—A rare denier of Count Arnaud-Gausfred.

Narbonne.—A rare denier of Viscountess Ermengarde (1143–1192).

Montpellier.—A gros of Jaime II. (1276–1311).

Provence.—Fine gold coins of Charles I. d'Anjou, Jeanne de Naples, Louis d'Anjou, René d'Anjou, Charles III., and an unpublished denier of René d'Anjou.

Arles.—A fine écu of Guillaume de la Garde (1360–1374), of the types of the royal écu.

Avignon.—A gold sequin of Julius II., struck by the legate Georges d'Amboise ; and a gold quadruple scudo of Urban VIII. struck by the legate Antonio Barberini (1642).

Orange.—A gold florin of the fourteenth century, and a fine gold double-pistole of Frédéric Henri, 1640.

Two chaises d'or of Louis II., Count of Flanders (1346–1384), and William VI., Count of Holland (1404–1417).

Presented by the Executors of the late Lady Lingen.

A demi-mouton d'or of Joanna Duchess of Brabant (1355–1383).

An important series of silver German bracteates of the twelfth century, mostly from the hoard discovered at Seega in Thuringia in 1902. Among the mints represented are Mühlhausen, Nordhausen, Magdeburg, Erfurt, Naumburg, and Mansfeld. The hoard was buried early in the thirteenth century.

A series of 146 Dutch, Flemish, German and French jetons chiefly of the 16th and 17th centuries.

Presented by Max Rosenheim, Esq., F.S.A., through the National Art Collections Fund.

(b) Medals:—

A very valuable silver medal of the Holy Trinity made in 1544 for Maurice, Duke of Saxony, by Hans Reinhardt, in very high relief, cast and elaborately chased. *Obv.* The Trinity—God the Father seated facing, holding sceptre and orb; before him, resting against his knees, Christ on the Cross; above the cross, the Dove; at the sides, figures of angels and cherubs. *Rev.* Two Angels supporting a tablet with verses from the Athanasian Creed and a hymn for Trinity Sunday. Signed and dated **H. R. CVDEBAT AN. MDXLIII.** This is a most important example of the silversmiths' art of the period, and very few specimens exist.

Presented by the National Art Collections Fund.

A bronze medal of Ulisse Musotti, by an artist of the school of Francia (early 16th century).

Presented by Max Rosenheim, Esq., F.S.A.

An early 16th century portrait medal of Daniel de Hanna, a Fleming settled in Venice. *Rev.* Figure holding a smoking vessel; inscription **OMNE VANUM.** Attributed to Leone Leoni.

A 16th century medal of Tommaso Marini, Duke of Terranova, by Pietro Paolo Romano (Galeotto); *rev.* Sun shining on the sea; inscr. **NVNQVAM SICCABITVR ESTV.**

A 16th century medal of the architect Francesco Volterrano, by the medallist T.R.; *rev.* Hand holding square and compasses; inscr. **SI QVID VALEMVS.**

A bronze medal of the painter Guercino.

Presented by Max Rosenheim, Esq., F.S.A.

A silver medal of Prince Gregory Potemkin (1783).

Presented by Max Rosenheim, Esq., F.S.A.

A bronze Dutch Gild-Penny of the Gild of Archers (1674).

Presented by Max Rosenheim, Esq., F.S.A.

A silver medal commemorating the Second Peace Conference at the Hague (1907).

Presented by Dr. H. J. de Dompierre de Chaufepié.

A bronze medal struck by the Swedish Numismatic Society on the completion of the twenty-fifth year of the reign of Oscar II., 1907.

Presented by the late Sir John Evans, K.C.B.

A silver portrait plaque of Dr. F. Imhoof-Blumer, by Hans Frei.

Presented by Dr. F. Imhoof-Blumer.

5. Oriental Series:—

Two Amawi dirhems of Wasit A.H. 108 and al-Andalus, A.H. 129.

Presented by Señor Don G. J. de Osma.

A dinar of the Abbasid Khalif, Al-Mutawakkil, struck at Madinat-as-Salam A.H. 244.

A rare dinar struck at Filistin, A.H. 361, by Hasan bin Ahmad, a Carmathian, during his occupation of Syria.

A quarter dinar of the Fatimid Khalif, Al-Mustansir, struck at Tarabalus. *Presented by Señor Don G. J. de Osma.*

A copper coin of Shahin Girai, last Khan of the Crimea, struck at Kaffah A.H. 1196.

A silver coin of Khusrau II. of Persia, yr. 31.

Presented by Lady St. John.

Four silver coins of Sapor I., Sapor II. and Feroz of Persia.

Presented by Miss Newton.

A silver coin of Nasr-ad-din, Shah of Persia, struck at Kazwin A.H. 1247.

Presented by Stanley Day, Esq.

A 20 para piece of Sultan Abd-al-Aziz of Turkey counter-marked for currency in the Dardanelles.

Presented by F. W. Hasluck, Esq.

Nine copper coins of Sikandar Lodi and Buhlol Lodi, Sultans of Delhi.

Presented by the Asiatic Society of Bengal.

Four copper coins of the Moghul Emperor Akbar.

Presented by J. G. Covernton, Esq.

A copper coin of Akbar and a rupee of Muhammad Shah, struck at Surat A.H. 1142.

Presented by the Bombay Branch of the Royal Asiatic Society.

Two gold Moghul nisar pieces and a series of silver and copper coins of the Sultans of Delhi, the Bahmanis, Mysore, and other modern native Indian States.

Presented by Major E. H. McKenzie Elliot.

Two rupees of Gohud and Maheswar.

Presented by Colonel J. Biddulph.

Eight rupees of the Moghul Empire and Afghanistan, and two copper coins of Hyderabad and Kashgaria.

Presented by Captain J. R. Brown.

A specimen of the rare silver medal, struck to commemorate the coronation of the Ghazi-ad-din Haidar as first King of Oudh in October 1819.

Three rupees of modern native states of India.

Presented by the Director of Agriculture, Central Provinces.

A fine series of sixty-one lead and potin coins of the Andhra dynasty, being coins formerly in the collection of the late General Pearse, published in the British Museum Catalogue of the Andhras and Western Kshatrapas.

Presented by J. H. Marshall, Esq.

Three silver coins of the Kshatrpa Dharasena.

Presented by the Bombay Branch of the Royal Asiatic Society.

A series of thirty-eight silver coins of the Western Kshatrapas, the Gupta dynasty, and the Kings of Valabhi.

Presented by Miss Newton.

A fine Dinar of Kumáragupta I. 414-452 A.D. of the rare "Lion-Trampler" type.

Presented by Vincent A. Smith, Esq., I.C.S.

A copper coin of Malaya Varma of Narwar.

Presented by the Government of the United Provinces.

A gold coin of the Ganga dynasty of Kalinganagara of the eleventh century.

Presented by Edgar Thurston, Esq.

A gold coin of Said Muhammad of Arcot.

Presented by Colonel J. Biddulph.

Three gold Virraya fanams.

Presented by the Madras Museum.

A series of one hundred and forty copper coins of mediæval Southern India, containing many rare specimens.

Presented by Major E. H. McKenzie Elliot.

Eight silver coins of Assam, of Gaurinatha Simha, Lakshmi Simha, Rájesvara Simha, and Bhrajnatha Simha, from a find in Jorhut.

Presented by the Government of Eastern Bengal and Assam.

A silver Buddhist medal from Burma.

Presented by the Asiatic Society of Bengal.

6. Chinese Series:—

A bilingual silver coin struck by the late Chinese Emperor, Kuang Hsü, at Kashgar, after the conquest of Turkestan.

Presented by Colonel J. Biddulph.

A silver coin of one tael struck for the Hu Nan Province, and a silver coin of seven mace struck in the town of Chang Sha.

A fine specimen of the Japanese silver "Cho-gin" pieces struck for presentation.

A silver piece of one-sixteenth ryo struck in Japan between 1829 and 1837.

Presented by Major E. H. McKenzie Elliot.

An interesting series of forty-eight silver medals and amulets struck by the Kings of Annam and presented as rewards for services to the state.

Three specimens of the lead "Hat-money" of Pahang.

Presented by Leonard Wray, Esq., I.S.O.

V.—Casts, &c.

One hundred and five plaster casts of German medals and plaquettes. *Presented by the Committee of the Burlington Fine Arts Club.*

A series of 109 impressions in lead of imitations of Roman Medallions, and large brass coins, of Greek coins, and of Italian medals, struck from dies executed by Giovanni Cavino

of Padua (A.D. 1499-1570). The dies are preserved in the Cabinet des Médailles, Paris, and the impressions are of service in distinguishing such imitations from original antique pieces.

Presented by the Cabinet des Médailles, Bibliothèque Nationale, through the Conservateur, M. Ernest Babelon.

VI.—*Students and Visitors.*

The number of visits made to the Department of Coins and Medals by students and others during the year 1908 was 4,293.

H. A. Grueber.

X.—BRITISH MUSEUM (NATURAL HISTORY).

STATEMENT of PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and ACCOUNT of OBJECTS added to them, in the Year 1908.

GENERAL PROGRESS.

Visitors.

The total number of visits made by the public to the Natural History Museum during the year 1908 was 517,043, as compared with 497,437 in 1907—an increase of 19,606.

The attendance on Sunday afternoons showed a slight falling off, the figures being 65,986, as against 66,367 in the previous year.

The average daily attendance for all open days was 1,420·4; for week days only, 1,445·7; and for Sunday afternoons, 1,268·9.

Electric Lighting.

An electric lighting cable has been laid from the Imperial Institute to connect with the main in the Natural History Museum, in order that the current for lighting the Museum may be supplied from the Government generating station at the Imperial Institute, instead of from a private Company as heretofore. The work has been carried out by His Majesty's Office of Works.

The permanent installation of the electric light in the Bird Gallery has been completed, inverted arc lamps of a pattern approved by the Trustees having been adopted.

Heating and Ventilation.

The new heating and ventilating apparatus, as planned by the Chief Engineer of the Office of Works, has been introduced in the west (Zoological) wing of the Museum; and provision has been made in the Museum estimates for 1909-10 for an installation on similar lines on the eastern side.

Fire Telephone.

Telephonic connection has been made by the General Post Office between the Natural History Museum and the Fire Station in Trafalgar Square, Chelsea—instead of the station in East Street, Manchester Square, as formerly.

Extension of the Botanical Department.

In order to obtain more accommodation for the Botanical Department, the Trustees have applied for provision in Class I. of the Estimates for the construction of a room on the east side of the second floor, similar to that erected on the west side for the study collection of Mammals.

Swiney Lectures.

Dr. R. F. Scharff delivered in November his second course of lectures on the Swiney foundation, the subject being "The Geological History of the American Fauna." The lectures, twelve in number, were given in the theatre of the Victoria and Albert Museum (by permission of the Board of Education), and the total attendance was 1,186 persons, or an average of 99 persons per lecture, as compared with 100 for the course of 1907.

Dr. T. J. Jehu has been appointed to succeed Dr. Scharff as Swiney Lecturer for a term of two years (1909, 1910). The subject of his first course will be "The History of the European Area during late Tertiary and Pleistocene Times."

Expedition to Christmas Island.

Ten years having elapsed since Dr. C. W. Andrews, Assistant in the Geological Department, visited Christmas Island (Indian Ocean) at the instance of Sir John Murray, K.C.B., that gentleman suggested to the Trustees that it might be productive of interesting discoveries if Dr. Andrews revisited the island to investigate the extent and nature of the changes that must have taken place in consequence of the introduction of a considerable population and the now frequent visits of ships. Special leave was accordingly granted to Dr. Andrews, and he was able to spend nearly three months on the island, the expenses of the expedition being defrayed, as on the former occasion, by Sir J. Murray. Considerable collections were made, particular attention being paid, on this occasion, to the marine animals. The collections have not yet been fully worked out, but a number of new species in several groups have already been noted.

Of the changes that have taken place in the island the most interesting is the apparently complete extinction of the two species of native rats (*Mus macleari* and *M. nativitatis*). This appears to have been brought about by the introduction by rats from the ships of some epidemic disease to which the native forms could offer no resistance. One of the results of their disappearance is that in many of the more open parts of the forest great numbers of seedlings of *Inocarpus edulis* are growing up. Formerly the fruit of this tree was eaten in great quantities by the rats.

Some of the many plants introduced for food are spreading widely along the roads, and the secondary growth in the clearings in the neighbourhood of the settlement consists almost entirely of a probably introduced tree, *Melia azederach*.

Sir John Murray has presented the first selection of all the collections to the British Museum. Dr. Andrews was greatly indebted for assistance in many ways to Mr. J. D. Murray, the Manager of the Christmas Island Phosphate Company, and to various members of his staff.

Presents.

The total number of gifts received during the year by the several departments was 2,259, as compared with 2,105 in 1907. Many of these comprised large numbers of individual specimens. The details of all the more important of them will be found in the reports of the Keepers of the Departments, but the following may be mentioned here as of special interest:—

From Mr. F. D. Godman.—Additional valuable collections of insects from Central America and other localities, and a series of water colour drawings of butterflies of the family Hesperidæ, after originals by Plotz.

From the Hon. Walter Rothschild.—Mounted specimens of a male and female Californian Sea-Elephant, from the island of Guadalupe (off the west coast of Lower California), and of a male Sea-Lion from California.

From the Trustees of the Percy Sladen Fund.—A large collection of reptiles, batrachians, and fishes, from the Seychelles, Chagos Islands, and the Indian Ocean, made by Mr. J. Stanley Gardiner, F.R.S., leader of an expedition sent to the Indian Ocean in 1905.

From Mr. G. M. Norrie.—A fine mounted head of an African Elephant of the Uganda race.

From Mr. C. D. Sherborn.—A very valuable collection of specimens of the handwritings of naturalists, consisting of some 8,000 letters and other documents on Natural History subjects, many relating to objects in the Natural History Museum; and a copy of the important work "Bibliographie de la France, 1811-50."

From the Hungarian Minister of Agriculture.—25 models, by Mr. Vastagh, of various animals, from the recent Hungarian Exhibition in London.

From Mrs. R. P. Murray.—The extensive herbarium made by her husband, the late Rev. R. P. Murray, comprising about 15,000 sheets, and of special value on account of the large collection of Canary Island plants, on which Mr. Murray was a recognized authority.

From Miss E. N. Gwatkin.—A collection of 270 coloured drawings of British plants, executed by herself.

Purchases.

Among the more important purchases made during the year, special mention may be made of the following:—

A series of 500 small mammals from Spain and the Riviera, collected by Mr. Gerrit Miller; the third and fourth portions

of the collection of coleopterous insects made by Dr. D. Sharp, consisting of about 30,000 specimens of Brachelytra (2,000 being types), and about 20,000 specimens of various families chiefly from New Zealand and the Hawaiian Islands (400 being types); a series of fossil marine reptiles from the Oxford clay of Peterborough, specially selected to supplement the collection already in the Museum; remains of fossil lemurs from a swamp of pleistocene age in Madagascar; the second half of the important collection of sea-weeds made by the late Mr. E. A. L. Batters; and the meteoric stones which fell at Modoc (Kansas) and Eli Elwah, New South Wales.

Exchanges and Gifts of Duplicates.

Exchanges of duplicate specimens have been made with various institutions and individuals.

The following have been added to the list of institutions to receive grants of duplicate specimens of natural history, viz.:—Storey Institute, Lancaster; Radcliffe Museum, and City Museum, Londonderry.

Selections of duplicate specimens have been presented as follows:—

Of zoological specimens—to Sheffield Museum; the London School of Tropical Medicine; the Hancock Museum, Newcastle-upon-Tyne; the Rhodesian Museum, Bulawayo; Aberdeen University; the Royal Scottish Museum, Edinburgh; the Sleeping Sickness Bureau, Royal Society; Mr. A. O. Walker; Dr. F. Werner; Mr. H. Wagner; Mr. S. Schenkling; and Mr. P. Boileau.

Of fossils and casts of fossils—to University College, London; Leicester Public Museum; Manchester Museum; the Royal Institution of Cornwall, Truro; Mr. G. Vincent, of Brussels Museum; Mr. James Lomax; Professor Jules Welsch, of the University of Poitiers; Dr. W. Petrascheck, Geological Survey of Austria; the Hon. C. D. Walcott, Smithsonian Institution; Miss Evelyn Irby; Miss C. H. Mona Briggs; Mrs. Shakespear, D.Sc., of Birmingham University; Dr. H. F. Standing; Dr. H. P. Blackmore; Dr. A. W. Rowe; Dr. A. de Grossouvre; Professor J. Joly, F.R.S., of Trinity College, Dublin; Hon. R. J. Strutt, Imperial College of Science.

Of mineral specimens—to Dr. P. Marshall, of Otago University, Dunedin, New Zealand.

Of botanical specimens—to Professor Chodat, of Geneva University.

Publications.

The following works on Natural History have been published during the year:—

National Antarctic (Discovery) Expedition, 1901-4.
Natural History. Vol. IV. Zoology (Invertebrata). Eleven

memoirs by various authors. Pp. iv., 281, 65 plates, and 1 text-figure. 4to. £1 15s.

Catalogue of Lepidoptera Phalænæ (Moths) in the British Museum. Vol. VII. Noctuidæ (Acronyctinæ). By Sir George F. Hampson, Bart. Pp. xv., 709, 184 woodcuts. 8vo. 17s.

———— Atlas of 15 coloured plates. 8vo. 13s.

Synopsis of the British Basidiomycetes: a descriptive Catalogue of the Drawings and Specimens in the Department of Botany. By Worthington G. Smith, F.L.S. Pp. 531, 5 plates, and 145 text-figures. 8vo. 10s.

Guide to the specimens illustrating the Races of Mankind (Anthropology) exhibited in the Department of Zoology. By R. Lydekker, F.R.S. Pp. 31, 16 figures. 8vo. 4d.

Guide to the Elephants (Recent and Fossil) exhibited in the Department of Geology and Palæontology. By Dr. C. W. Andrews, F.R.S. Pp. 46, 31 figures in text. 8vo. 6d.

Guide to the Domesticated Animals (other than Horses) exhibited in the Central and North Halls. By R. Lydekker, F.R.S. Pp. 55, 24 figures. 8vo. 6d.

Guide to the Gallery of Fishes in the Department of Zoology. By Dr. W. G. Ridewood. Pp. v., 209, 96 figures. 8vo. 1s.

Guide to the exhibited series of Insects, Zoological Department. By C. O. Waterhouse. Pp. 57, 62 text and full-page illustrations. 8vo. 1s.

New editions have been issued of the following:—

Guide to the Shell and Starfish Galleries in the Department of Zoology. Fifth edition. Pp. iv., 133, 125 woodcuts and plan. 8vo. 6d.

Guide to Sowerby's Models of British Fungi in the Department of Botany. Second edition, revised. By W. G. Smith, F.L.S. Pp. 85, 91 woodcuts. 8vo. 4d.

Instructions for Collectors:—No. 5. Diptera (Two-winged Flies). Third edition. Pp. 16, text illustrated. 8vo. 3d.

Selections of the natural history publications of the Museum have been sent to Free Libraries and other institutions in Great Britain and Ireland, to Colonial, Indian, and foreign Museums, Libraries, and Scientific Societies, and to various persons who have benefited the Museum by helping in the preparation of the volumes, or otherwise; and additions have been made to the publications-exchange list.

The under-mentioned works are in preparation:—

Catalogue of the Library, Vol. III.

National Antarctic (Discovery) Expedition, 1901–4. Natural History, Vol. V.

Catalogue of Bats, by Dr. Knud Andersen.

Monograph of the Okapi, by Sir E. Ray Lankester, K.C.B. F.R.S.

Hand-list of Birds, Vol. V., by Dr. R. B. Sharpe.

Catalogue of Birds' Eggs, Vol. V., by W. R. Ogilvie Grant.

Catalogue of the Fresh-water Fishes of Africa, by G. A. Boulenger, F.R.S.

Illustrations of African Blood-sucking Flies, with text by E. E. Austen.

Monograph of Mosquitoes, Vol. V., by Professor F. V. Theobald.

Catalogue of Moths, Vol. VIII. and IX., by Sir G. F. Hampson, Bart.

Synonymic Catalogue of Orthoptera, Vol. III., by W. F. Kirby.

Catalogue of Polychæte Worms, by Dr. J. H. Ashworth.

Catalogue of Marine Reptiles of the Oxford Clay, by Dr. C. W. Andrews, F.R.S.

Catalogue of Fossil Fishes, Vol. V., by Dr. A. Smith Woodward, F.R.S.

Catalogue of Cretaceous Bryozoa, Vol. II., by Professor J. W. Gregory, D.Sc., F.R.S.

Monograph of British Lichens, Vol. II., by Miss A. L. Smith.

Monograph of Mycetozoa, by A. Lister, F.R.S. New edition revised and enlarged.

Catalogue of the Sloane Herbarium, by J. Britten.

Monograph of Orchids of Jamaica, by W. Fawcett and Dr. A. B. Rendle.

Guide to the Cetaceans, by R. Lydekker, F.R.S.

GENERAL LIBRARY.

The additions to the General Library during the past year have been :—

By purchase	-	-	-	425 volumes.
By donation	-	-	-	733 volumes, 5 maps, and 76 photographs.

TOTAL - - 1,158 volumes, 5 maps, and
76 photographs.

A very valuable collection of specimens of the handwritings of Naturalists, consisting of some 8,000 letters and other documents, largely referring to specimens in the collections in the Museum, has been presented expressly to the General Library by Mr. C. Davies Sherborn, with a set of the "Bibliographe de la France" from 1811 to 1850.

All the volumes and maps have been catalogued, press-marked, and put in their places, while 1,124 volumes have been bound in 493, and 6 have been repaired.

The extent of the collection on the 31st of December was 38,059 volumes, 5,671 maps, and 459 photographs (not including those in the Owen Collection of Drawings, &c.).

The accessions to the Departmental Libraries have also been catalogued as they came in, and duplicate transcripts of the titles have been returned with the books.

Altogether 1,989 title-slips have been written, 147 re-written, and 2,789 revised.

There are now, on a rough estimate, 85,076 volumes (exclusive of continuations and minor *separata*) and 5,972 maps in the whole building.

The printing of the Catalogue was proceeded with and the work at the end of the year stood as follows:—

No. of sheets passed for press (A—Meyn)	-	163
No. of title slips set up in type (A—Mez)	-	37,616

The identification of the Drawings in the Owen Collection has been proceeded with by Mr. Harold Wilson.

The number of visits paid to the Library during the year by students and others (irrespective of the staff and persons to whom the use of a key is granted) was 2,108.

INDEX MUSEUM AND MORPHOLOGICAL COLLECTIONS.

All the dissections exhibited in the Entrance Hall have been examined during the course of the year; 119 glass vessels have been refilled with alcohol, 31 have been resealed, and 17 dissections have been remounted.

The specimens of Insectivora and Chiroptera in the South wall-case of Bay II. have been rearranged, and the twelve preparations in Bay III. illustrating the structure of the foot in Birds have been remounted.

In Bay VI. the series of Peas illustrating Mendel's hypothesis of inheritance have been relabelled. Of additions to the Heredity series the following are the most notable:—Fifteen skins illustrating the view of Mr. R. I. Pocock that Domestic Cats are descended from two different species of Wild Cat; a series of twenty-one Mice, bred by Mr. A. D. Darbishire to illustrate Mendelian segregation; and ten Guinea-pigs bred by Mr. C. J. Davies for the same purpose.

In the "Fisheries Investigations" table-case two additions have been made to the series of specimens showing the rate of growth of the Eel; three preparations have been added showing the more rapid growth of Plaice on the Dogger Bank than on the coast; and two preparations illustrating the food of the Herring have been introduced into the fish-food series.

A series of specimens illustrating the adaptation of animals for movement through the air is in active preparation, and will include scudding and parachuting animals as well as those possessed of the power of true flight.

E. Maunde Thompson,
Director and Principal Librarian.

British Museum (Natural History),
27 February, 1909.

DEPARTMENT OF ZOOLOGY.

I.—*Arrangement and Conservation.*

Mammalia.—During the year a large number of new specimens have been added to the exhibition series by presentation, purchase, or exchange. The more important of the presented specimens are noted below.

By rearrangement of the fittings and by the addition when necessary of ground-work illustrating natural surroundings, improvements have been effected in the cases respectively containing Monkeys, Giraffes, small Carnivora, and Wild Horses and Asses.

A map of the world, illustrating the views of Messrs. Lydekker and Max Weber with regard to the Geographical Distribution of Animals, has been exhibited with the map explaining the Regions adopted by Messrs. Scater and Wallace.

Many new descriptive labels have been written and printed, for the two Mammal Galleries and for the Central Hall.

Two new illustrated guide-books, one relating to Domesticated Animals other than Horses, and the other to the Anthropological series, have been written by Mr. Lydekker and published during the year.

The additions by presentation to the exhibition series during the year include the following specimens:—A male and a female Californian Sea-Elephant from Guadalupe Island, together with photographs of a group of these animals in life, presented by the Hon. Walter Rothschild. A Sea-Lion from California, also presented by Mr. Rothschild. The head of an African Elephant, presented by G. M. Norrie, Esq. A Sze-chuen Takin, a young Pigmy Hippopotamus, and a Nyasa Duikerbok, presented by Rowland Ward, Esq. An Edmi Gazelle and the head of a female of the same, from Algeria, the gift of E. Richardson-Cox, Esq. The head of a White-eared Kob, from the Bahr-el-Ghazal, presented by Norman Smith, Esq. A White-cheeked Gibbon, two Macaque Monkeys, and a Hose's Langur Monkey, from Borneo, presented by the British North Borneo Company. A Bushbuck and three smaller African Antelopes, the gift of F. R. Roberts, Esq. A young Walrus, presented by the Council of the Zoological Society. A Sze-chuen Serow, an Ashy Goral, the skull of a Chinese Takin, and a female Orange Snub-nosed Monkey, all from Sze-chuen, presented by the late J. W. Brooke, Esq. The skull of a Patagonian, presented by H. S. Felton, Esq.

An important addition, acquired by exchange, is an immature female of the Nigerian Giraffe, which has been placed in the Giraffe-case.

Among the additions by purchase have been a Giant Otter from Guiana, and a Bay Cat from the Malay Peninsula.

A number of old specimens have been remounted, in many cases with the aid of photographs of living animals; among these being the Red Wolf of South America and several Gibbon Apes from the Malay Countries.

Domesticated Animals.—The additions to this series during the year have not been numerous. The gifts include a Nigerian Sheep and a Unicorn Nepalese Ram, presented by the Zoological Society; a hybrid Ibex-Goat and a hybrid Wolf-Dingo, presented by the Hon. Walter Rothschild; a Pekinese Spaniel, "Palace-Yo-Tel," presented by Mrs. Vallance; a Samoyede Dog, the gift of Lady Sitwell; a Papuan native Dog, presented by Sir William Ingram, Bart.; and a number of statuettes of Domesticated Animals, modelled by G. Vastagh of Budapest, and presented by the Minister of Agriculture for Hungary.

The publication of a guide-book to this series has already been mentioned.

Alterations have been made in the arrangement of the specimens in some of the cases, whereby a considerable gain in space has resulted. The two heads of Spanish Oxen presented a few years ago by H.M. the King have been remounted.

A new case for Dogs has been added to this portion of the Museum.

Whale Room.—The whole of the exhibited series of skeletons of Whales and Porpoises have been carefully cleaned, with a marked improvement to their appearance.

The specimens added to this portion of the Museum during the year comprise miniature models of the North Atlantic Right Whale and the Hump-backed Whale, presented by the American Museum of Natural History, and still smaller models of the Pacific Grey Whale and the Hump-backed Whale, acquired by purchase.

In the STUDY SERIES the usual work of labelling, registering, and incorporating the mammals added to the collection has been continued. A block of three deal cabinets intended for the new mammal gallery has been provided for the storage of specimens of the size of a hare or small fox.

Two cabinets for the keeping of small mammal skins (rats, mice, squirrels, &c.) and one cabinet for the skulls of small mammals have been added.

Work has been somewhat interrupted by the introduction of a new system of warming the Museum.

The department is again much indebted to volunteer helpers for valuable assistance in working out new forms of mammals. The following gentlemen should be specially mentioned in this connection:—Mr. R. C. Wroughton, Dr. Forsyth-Major, Mr. R. J. Cuninghame, and Major G. E. H. Barrett-Hamilton.

The services of Dr. Knud Andersen have been continued for the preparation of the new Catalogue of Chiroptera.

Aves.—The Birds in the British Saloon have been rearranged and the old and faded specimens have been almost entirely replaced by new examples. One hundred and fifty-nine of these have been beautifully mounted, and generously presented, by Mr. Rowland Ward.

Cases containing the Coal Tit, and Buffon's Skua have been added.

Some valuable additions have been made to the collections of skeletons and of birds in spirit: and, of these, special mention may be made of the gifts of Birds of Paradise from Sir William Ingram, Bart.; and of nestling Pelicans from Captain Stanley Flower, Director of the Zoological Gardens, Cairo.

The arrangement of the Passerine skeletons is now completed. Much curatorial work has been necessary to keep these collections in order, but the specimens in spirit are almost inaccessible, owing to the want of suitable storage; while in regard to the skeleton-collection a very large number of old skeletons need to be replaced by new and properly prepared specimens.

A series of preparations illustrating the Classification of Birds has been commenced for exhibition in the public galleries.

Reptilia and *Batrachia*.—Lack of new material has rendered it impossible to make any important additions to the Reptile Exhibition Gallery. Models of a male and female Toad, made by the donor, have, however, been presented by Mr. K. J. A. Turner; while a bronze model of a larger Toad has likewise been added to the series. The case containing the Australian Frilled Lizard has been sanded, and the specimens rearranged.

In the spirit building the provision of the new cases has permitted the expansion of the Batrachian collection, while the Reptile collection still remains very crowded.

Pisces.—The arrangement of the specimens of fishes in Wall-cases 6-15 in the North half of the Gallery has been completed during the past year. 472 labels to replace the manuscript labels pinned against the fishes in this half of the Gallery have been printed, and will be put up shortly, and 106 labels for the orders, sub-orders and families of the same fishes are in the press.

Against each of the 960 specimens now exhibited has been placed a numeral, and these numerals are quoted in the Guide-book to the Gallery published in April 1908. Against 94 of

the specimens have also been placed tickets bearing the letters B F F to signify that the fishes in question are British Food Fishes. All the wall-cases, floor-cases, table-cases and cabinet-cases have been numbered, and the numbers are quoted in the Guide-book.

Fifty-one specimens of fishes have been restored and coloured according to published coloured figures and descriptions, in continuation of the work begun in 1904, and eight new stuffed specimens have been introduced into the series in the wall-cases. Eleven morphological preparations have been added to illustrate some of the anatomical features that are utilised in the classification of fishes.

The card-catalogue of the specimens on exhibition has been enlarged by the addition of 130 entries, and a special list of the osteological and odontological preparations has been drawn up.

The doorway at the North end of the Gallery has been boarded up, and coloured uniformly with the backgrounds of the wall-cases, for the display of three large Rays and of the Tarpon presented by Mr. A. L. Allen. The rough backgrounds of the Mackerel, Shark, and Great Blue Shark have been smoothed and distempered.

The floor-case of the Sail-fishes, and the floor-case containing the Angler, Tarpon and Opah, have been rearranged and the specimens relabelled; and alterations have been made in the table-case of the Cyclostomi.

All the large fishes not in glass cases, those hanging from the side rails and those supported on the floor, have been provided with printed labels protected under glass.

In the spirit building the new cases have permitted the expansion of rather more than half of the Fish collection, the remainder of which is in a condition approaching chaos. A number of large collections of Fishes still remain packed in tanks and large bottles, and it has not been found possible to incorporate them during the year. The collection of Fish skeletons has been arranged and labelled, and a manuscript catalogue prepared of them. Progress has been made with a catalogue of the freshwater Fishes of Africa, the first volume of which is in the press.

Mollusca.—The principal work done in connection with the collection of Mollusca has been the registration, mounting, and incorporation of the numerous acquisitions. The species of the family *Vanikoridæ* have been worked out and monographed; the collection presented by the subscribers to the Ruwenzori expedition has been reported upon, and a series of specimens from the same region, received from Major P. H. G. Powell-Cotton, has also been named; some South African marine shells have been described, and the re-mounting and re-labelling of the exhibited land shells has been continued.

Insecta.—The arrangement of the collections has been considerably hindered by the disturbance necessitated by the introduction of new heating and ventilation systems, during which the rooms were closed for several months.

In the Coleoptera the *Parnidæ* and *Heteroceridæ* have been re-arranged and all accessions, including the Sharp, Fry and Godman-Salvin collections, all containing numerous types, incorporated. The *Trogositidæ*, and a great part of the *Nitidulidæ* contained in the Sharp and Fry collections, have also been added. The classification of the *Hybosoridæ* and related Lamellicorn families has been revised, the collection entirely re-arranged and many new species described. The Coleoptera collected by the Hon. G. Legge and Mr. A. F. R. Wollaston during the Ruwenzori Expedition have been worked out, and papers dealing with them prepared for publication, and in the course of this work a very large number of African Coleoptera have been determined, incorporated, and arranged.

The undetermined specimens of various groups of Coleoptera have been brought together and sent to specialists abroad to be named, and several such collections returned to the Museum have been labelled and incorporated. A number of types of Longicornia described in "The Fauna of British India," and presented by Mr. H. E. Andrewes, and a series of co-types of new Sumatran species presented by Dr. Gestro, of the Genoa Museum, have also been labelled and incorporated.

The arrangement of the *Elateridæ* has been carried only slightly further than at the end of 1907, but a considerable amount of fresh material from the Fry and Sharp collections has been added to the arranged part of the family.

The MS. of the third and last volume of the Catalogue of Orthoptera has been completed and the collection revised in accordance with it.

The Homopterous family *Cercopidæ* and the sub-family *Tettigoniellinæ* of the *Jassidæ* have been re-arranged, the Godman-Salvin, Fry, and other additions incorporated and the new species described. The Rhynchota collected during the Ruwenzori Expedition have been worked out and the new species described, and a considerable number of Indian species of different families of Homoptera have been described in "The Fauna of British India."

In the Diptera, the African *Tabanidæ* have been arranged and all new species described, and the *Pantophthalmidæ* have been worked out and re-arranged, new species belonging to that family and the *Mydaidæ* having been described. The Diptera of the Ruwenzori Expedition have been worked out and described, and a selection has been made from a large series of Diptera recently collected in Ashanti by Dr. W. M. Graham. The undetermined Blood-sucking *Muscidæ* from the Ethiopian and Oriental Regions have been worked out and described. A number of small collections of Blood-sucking flies from various

parts of the British Empire have been determined and incorporated; and information has been supplied to the senders and other enquirers. The preparation of drawings for "Illustrations of African Blood-sucking Flies" has been advanced.

The collection of *Chrysididæ*, or Cuckoo-wasps, was arranged and extended by Lieutenant-Colonel Bingham, of whose services the Museum has unhappily been since deprived by death. Mr. Rowland E. Turner has continued to devote his time to the service of the Museum, and during the past year has completed his re-arrangement of the *Scoliidæ* and commenced that of the *Sphegidæ*.

The transfer of the Butterflies to the cabinets of the new pattern has been continued, and the re-arrangement of the *Nymphalidæ* has been completed, the Hewitson Collection and all other accessions except the Godman-Salvin Collection being included. The *Erycinidæ* and the Liptenine group of *Lycenidæ* have been similarly treated, and of the latter all available accessions incorporated.

The *Thaidinæ* and part of the genus *Papilio* have been arranged by Mr. H. J. Elwes in the new cabinets.

The MS. dealing with the family *Noctuidæ*, sub-family *Acronyctinæ*, which is the subject of Vols. VII., VIII. and IX. of the Catalogue of Moths, has been completed. Vol. VII. has been published, and part of Vol. VIII. is in type. About two-thirds of the sub-family *Erastridæ*, which will form Vol. X. of the Catalogue, have also been worked out and the descriptions written, and the Museum Collection has been arranged as far as the Catalogue is in print.

In the other groups of Moths, the Hon. L. Walter Rothschild has continued his re-arrangement of the collection of *Sphingidæ*, and Mr. L. B. Prout has completed his identification of unnamed Neotropical *Geometridæ* in the Museum by comparison with the types in the Tring Museum.

Myriopoda and *Arachnida*.—A large number of the centipedes of the family *Scolopendridæ* have been determined.

The greater part of the unnamed material of *Arachnida* has been arranged in geographical order; much of the African material has been sorted into families and genera, and is now being worked out. Many of the "Harvest-men" in the collection have also been named.

The dry collections of Scorpions, Solifugae and Pedipalpi have been re-arranged and re-labelled and their nomenclature has been brought up to date.

Progress has been made with the compilation of a guide to the exhibited series of *Myriopoda* and *Arachnida*.

Crustacea.—Considerable additions have been made to the exhibited series, and a set of preparations, illustrating the structure of the lobster, as an introduction to the study of

Crustacea, have been placed in one of the wall-cases. In the Crustacea room the necessary re-spiriting and supervision of the collection has been carried on as usual, and, in particular, the "Challenger" collection of Amphipoda, hitherto crowded together in a few large jars, has been extended into about 150 bottles, re-labelled, and made available for study. As no space is available for its incorporation, this collection is temporarily stored in two book-cases. A card-index to the genera of Crustacea in the collection (some 1,500 in number) has been prepared. The work of re-pinning, for greater safety, the specimens in the dry collection, and of replacing the supply of naphthaline in the drawers, has been begun, and about one-third of the collection has been done. A large number of accessions have been determined, and, where necessary, descriptions of the new species have been published. Work on the Cumacea has been continued.

*Prototracheata, Echinoderma, Vermes and Anthozoa.**—The MS. Catalogue to the spirit collection has been indexed, and is therefore generally available, but it will rapidly cease to be of use unless increased space is soon found for the collection of Invertebrates in spirit.

Most of the specimens obtained during the year have been determined.

Dr. Ashworth is continuing his catalogue of the Arenicolidæ.

The new edition of the Guide to the Shell and Starfish Galleries has been published.

The study collection of dried Corals has been transferred from the western tower to the basement, where, by a great improvement in the method of arrangement, the specimens are much more easily accessible to the student.

The dried collection of Irregular Echinoids is being arranged in a method by which it will occupy much less space than heretofore.

The MS. Catalogues of Echinoidea and Ophiuroidea have been posted up for the last ten years; the new species described in these years, and the accessions to the collection have all been duly entered; these MS. Catalogues are of great service to students.

In the Starfish Gallery painted pictures of the Common Sea-Urchin and of *Sabellaria spinulosa*, as they occur in life, have been placed on the walls; two specimens of the common Sea-mouse, prepared from living specimens, and of *Gordius aquaticus* have been mounted, and instantaneous photographs of the latter have been taken and mounted. A few additions have been made to the explanatory labels in the Starfish Gallery.

* The Assistant in charge of these groups has been recently occupied by the editing of the "Discovery" Report.

Tunicata, Polyzoa, Hydrozoa, Porifera.—The work done during the year has been that of bottling, labelling, registering, and incorporating additions.

The whole of the spirit collections of *Tunicata, Polyzoa, Hydrozoa,* and Sponges have been re-spirited; in the course of this work on the Sponges, many labels were re-written or additions made.

Over one thousand micro-slide preparations of Sponges have been labelled, registered, and incorporated in the large slide cabinet.

The *Calcarea* and the *Hexactinellida* have been re-arranged and classified up to date, considerable alterations having been required in the arranging and labelling of the *Hexactinellida*.

II.—*Duplicates and Exchanges.*

(a) *Duplicates.*

Duplicates have been distributed amongst museums scientific institutions, &c., as follows:—

Mammalia.—80 Mammals from China and Japan, to the Royal Scottish Museum.

57 Mammals from South Africa, to the South African Museum.

300 Mammals from Southern Europe, to the United States National Museum.

Reptilia.—Duplicates have been presented to the Royal Scottish Museum and to the University of Aberdeen.

Mollusca and Crustacea.—Duplicates have been presented to the Sheffield Museum and to Mr. A. O. Walker.

Insecta.—Duplicate specimens have been presented to the London School of Tropical Medicine; the Sleeping Sickness Bureau, Burlington House; and the Hancock Museum, Newcastle-upon-Tyne.

(b) *Exchanges.*

Reptilia.—Exchanges have been effected with the Museums of Paris, Berlin, and Lisbon, the Indian Museum and the University of Utrecht.

Mollusca.—An exchange has been effected with the Manchester Museum.

Insecta.—Exchanges have been made with the Genoa Museum; the Hope Department, Oxford University Museum; the Welsh Museum, Cardiff; and the following gentlemen:—the Hon. Walter Rothschild, Capt. Moser, Prof. J. Gillet, Dr. Oghaus and Messrs. R. C. L. Perkins, H. Maxwell-Lefroy, Ant. Grouvelle, H. St. J. K. Donisthorpe, H. E. Andrewes, and C. J. Pool.

III.—*Departmental Library.*

Ninety-seven separate works in 112 volumes, new to the Library, and 1,453 parts of periodicals and works in progress have been acquired during the year, by purchase, presentation, and exchange.

Two hundred and seventy-two books have been bound. The Library now contains 11,239 separate works in 13,171 volumes.

At a meeting held on November 28, 1908, the Trustees decided that the Library is to be moved from the South-West Basement Corridor to the Fish Reserve Gallery on the ground floor. This alteration, when carried out, will afford some additional accommodation for the study collection of Insects, and will add greatly to the convenience of the arrangements in the Insect Section.

IV.—*Independent Publications.*

In addition to the official Catalogues and other volumes published by the Trustees, already mentioned, various reports and descriptive papers have been prepared in connection with the different branches of the collection, and have been published in scientific journals.

For convenience of reference the following list is appended:—

Mammalia.—"The Nomenclature of certain Lorises"; "A new Deer of the Brocket Group of Venezuela"; "The Genera and Subgenera of the *Sciuropterus* Group"; "Four new Amazonian Monkeys"; "The Nomenclature of the Flying Lemurs"; "On certain African and South American Otters"; "The missing Premolar of the Chiroptera"; "New Asiatic *Apodemus*, *Evotomys*, and *Lepus*"; "The *Psammomys* of the Alluvial Soil of the Nile Delta"; "Three new African Species of *Mus*"; "The Species of the Genus *Dactylopsila*"; "Note on the Squirrel-Genus *Zetis*"; "On Mammals from the Malay Peninsula and Islands"; "A new Jerboa from China"; "A new *Akodon* from Tierra del Fuego"; "The Squirrels described as *Sciurus steerii* from Balabac and Palawan"; "A new Tree-Kangaroo from British New Guinea"; "New Bats and Rodents in the British Museum Collection"; "A new Fruit-Bat from Sierra Leone"; "A new *Pogonomys* presented to the British Museum by Sir William Ingram"; "A new Species of the Mascarene Genus *Eliurus*"; "On the large Flying-Squirrels referred to *Petaurista nitida*, Desm."; "The Duke of Bedford's Zoological Exploration in Eastern Asia.—X. List of Mammals from the Provinces of Chih-li and Shan-si, North China"; "The Duke of Bedford's Zoological Exploration in Eastern Asia.—VI. List of Mammals from the Shantung Peninsula, North China"; "The Duke of Bedford's Zoological Exploration in Eastern Asia.—VII. List of Mammals from the Tsushima Islands"; "The Duke of Bedford's Zoological Exploration in

Eastern Asia.—IX. List of Mammals from the Mongolian Plateau"; by Oldfield Thomas.

"The Rudd Exploration of South Africa.—VIII. List of Mammals obtained by Mr. Grant at Beira"; "The Rudd Exploration of South Africa.—IX. List of Mammals obtained by Mr. Grant on the Gorongoza Mountains, Portuguese S.E. Africa"; "The Rudd Exploration of South Africa.—X. List of Mammals collected by Mr. Grant near Tette, Zambesia"; "On a new Oribi obtained by Major Powell-Cotton in British East Africa"; by Oldfield Thomas and R. C. Wroughton.

"On a collection of Bats from Yola, Northern Nigeria, collected by Mr. G. W. Webster"; by Guy Dollman.

"On the Forms of Squirrel hitherto classed under *Sci. finlaysoni*, Horsf."; "A List of Mammals collected by Mr. C. F. N. Swynnerton in Northern Gazaland (Portuguese East Africa) and the Melsetter District of Rhodesia"; by R. C. Wroughton.

"On a Collection of Mammals from the Batu Islands, west of Sumatra"; by Marcus W. Lyon, Jun., United States National Museum.

Aves.—"Additional Notes on the Birds of Formosa"; "On two supposed Hybrids between the Red Grouse and Ptarmigan"; "On a collection of Birds made by Mr. Douglas Carruthers during his Journey from Uganda to the mouth of the Congo"; "Remarks on some of the Birds recently described as new by Prof. Neumann"; "On two new species of Grass-Warbler (*Cisticola belli* and *C. woosnami*) from S. E. Ruwenzori"; "On a new species of Rail (*Saurothruva buryi*) from Somaliland"; "On a new species of Chat (*Saxicola hawkeri*) from the Soudan"; "On two new species of Sun-bird (*Cinnyris seimundi*) from Fernando Po and (*C. batesi*) from S. Cameroon"; "On a new species of Pucras Pheasant (*Pucrasia styani*) from Ichang, Central China"; "Report on the Immigrations of our Summer Residents in the Spring of 1907"; by W. R. Ogilvie-Grant.

"Nestling Birds and some of the Problems they present"; "Note on Late Nesting of the Bearded Tit"; "The Powder-down of the Heron"; "Note on the Chiff-Chaff in London"; "The nest of the Ringed Plover and the Bearing thereof on the Evolution of Birds' Nests in General"; "On the Food of the Black-headed Gull"; "On the Position of the Ear in the Woodcock"; by W. P. Pycraft.

Reptilia and *Batrachia*:—"A Revision of the Oriental Pelobatid Batrachians"; "Description of a new Elapine Snake from Australia"; "Descriptions of new South American Reptiles"; "Description of a new Newt"; "A new Genus of Snakes from Brazil"; "Descriptions of Three new Snakes from Africa"; "Descriptions of a new Frog and a new Snake from Formosa"; "Description of a new Snake from Yunnan"; "A Collection of Freshwater Fishes, Batrachians and Reptiles

from Natal and Zululand"; "Fishes, Batrachians and Reptiles from Pahang"; "Diagnoses of new Reptiles and Batrachians discovered by Mr. Palmer in South-western Colombia"; by G. A. Boulenger.

Pisces.—"A Revision of the African Silurid Fishes of the Sub-family Clariinae"; "On a Malformed Plaice"; "Description of a new Silurid Fish of the Genus *Synodontis* from South Cameroon"; "Descriptions of Two New Cyprinodontid Fishes from West Africa"; "Diagnoses of new Fishes discovered by Captain E. L. Rhoades in Lake Nyasa"; "Note on *Clarias capensis*"; "Diagnosis of new Fishes from the Upper Zambesi"; by G. A. Boulenger.

"Biologia Centrali-Americana, Pisces"; "The Percy Sladen Trust Expedition to the Indian Ocean: Report on the Marine Fishes"; "The Duke of Bedford's Zoological Exploration in Eastern Asia.—VIII. A Collection of Freshwater Fishes from Corea"; "Descriptions of New Loricariid Fishes from South America"; "On an Australian Catfish, *Cnidoglanis megastoma*"; "A Revision of the Sharks of the Family Orectolobidae"; "A Synopsis of the Sharks of the Family Cestraciontidae"; "A Synopsis of the Sharks of the Family Scyliorhinidae"; "A Synopsis of the Sharks of the Family Squalidae"; "A new Generic Name for an Orectolobid Shark"; "A Collection of Fishes from the Coasts of Natal, Zululand, and Cape Colony"; "A Revision of the British and Irish Fishes of the genus *Coregonus*"; "A Preliminary Revision of the Irish Char"; "The Hybrid between the Bream and the Rudd"; "The Systematic Position of *Stylophorus caudatus*"; "A Synopsis of the Salanginae"; "A Collection of Freshwater Fishes made by Mr. C. F. Underwood in Costa Rica"; "Description of a new Loricariid Fish of the Genus *Plecostomus* from Argentina"; "Descriptions of new Fishes from Lake Candidius, Formosa, collected by Dr. Moltrecht"; "Descriptions of New Freshwater Fishes from China and Japan"; "Descriptions of Three New Cyprinoid Fishes from Yunnan, collected by Mr. John Graham"; "Description of a new Fish of the Genus *Cichlosoma* from Tampico"; "Descriptions of new Freshwater Fishes from British New Guinea"; "Description of a new Fish of the Genus *Galaxias* from Chile"; "Description of a new Fish of the Genus *Heterogramma* from Demerara"; "Descriptions of three new Freshwater Fishes from China"; by C. Tate Regan.

Mollusca.—"On *Pyrula bengalina* of Grateloup"; "On the Mollusca of Birket el Qurun, Egypt"; "Descriptions of new Species of Freshwater Shells from Central Africa"; "On the known recent Species of the Genus *Vanikoro*, Quoy and Gaimard"; "Note on *Lanistes magnus*, Furtado"; by E. A. Smith.

Insecta.—"Notes on North American Longicornia with Descriptions of some new Species"; "Description of a new Genus and Species of *Cleridae*"; "Notes on the Coleopterous

Genera *Horia* and *Cissites* and a list of the described Species”
 “On the Larvæ of *Trictenotoma childreni*, *Melittomma insulare* and *Dascillus cervinus*”; by Charles J. Gahan.

“A Contribution to the Classification of the Coleopterous Family *Dynastidæ*”; “On some new Species of the Coleopterous Genus *Mimela*”; “Notes on the Coleopterous Genus *Oniticellus* and Descriptions of some new Species from India”; “On two new Parasitic Coleoptera (family *Staphylinidæ*) from South America”; by Gilbert J. Arrow.

“Description of a new Cavernicolous Phasgonurid from Lower Siam”; by W. F. Kirby.

“On some Australian Homoptera”; “Descriptions of some Rhynchota from Ruwenzori”; “Rhynchotal Notes: XLIV. (*Tettigoniellinæ*) and XLV. (Ethiopian *Cercopidæ*)”; by W. L. Distant.

“New African Phlebotomic Diptera in the British Museum (Natural History), Parts I.-V.”; “On the Synonymy and Systematic Position of some Species of *Tabanidæ* described by Thunberg and Lichtenstein”; “The Tumbu-Fly (*Cordylobia anthropophaga*)”; by E. E. Austen.

“A Revision of the *Thynnidæ* of Australia, Part II.”: “Notes on the *Thynnidæ*, with Remarks on some aberrant Genera of the *Scoliidæ*”; “Additions to the Hymenopterous Genera *Myzine* and *Plesia*”; “Remarks on the Hymenopterous Genus *Tiphia*”; “Notes on the Australian Fossorial Wasps of the family *Sphegidæ*, with Descriptions of new Species”; by Rowland E. Turner.

“Supplementary Papers on the Moths of India: Series III., parts 10 and 11”; “Notes on *Noctuidæ* collected by Mrs. Nicholl in British Columbia”; “Moths collected during the Cruise of the *Valhalla*”; by Sir G. F. Hampson, Bart.

Arachnida.—“On some Oriental *Solifugæ* with descriptions of new forms”; “On a new Type of Stridulating-organ in Mygalomorph Spiders, with the description of a new genus and species belonging to the sub-order”; by A. S. Hirst.

The following papers are chiefly based on British Museum material:—

“An account of the South American *Cheliferinæ* in the collections of the British and Copenhagen Museums”; by C. J. With.

“Some Australian Spiders”; by H. R. Hogg.

“On some new and obscure Species of the Genus *Hæmaphysalis* of the *Ixodidæ*”; by C. Warburton.

Crustacea.—“Notes on a small collection of Plankton from New Zealand”; “On a parasitic Copepod from *Cephalodiscus*”; “An early figure of the King-Crab”; “On a Stridulating Organ in certain African River-Crabs”; by W. T. Calman.

Vermes.—The following are based on material in the collection:—

“Descrizione d’una nuova *Pheretima* del Giappone”;
“Contributo alla conoscenza della drilofauna papuasica”; by
L. Coqnetti de Martiis.

Porifera.—“Descriptions of two new recent genera of Pharetronid Sponges”; “Notes on two species of African Fresh-water Sponges”; “Preliminary Report on the Monaxonellida of the National Antarctic Expedition”; by R. Kirkpatrick.

V.—Acquisitions.

		Donations.	Purchases.	Exchanges.	Total.
Mammalia	Wild	3,339	941	18	4,298
	Domesticated	10	1	—	
	Human crania	3	—	—	
Aves	Various sources, skins	1,715	1,056	—	2,771
	Eggs, nests, and skeletons	150	—	—	
Reptilia		464	262	10	736
Batrachia		137	224	8	369
Pisces		1,239	330	9	1,578
Tunicata		2	—	—	2
Mollusca		1,429	1,414	3	2,846
Insecta	Sharp Collection	—	50,000	—	86,571
	Other sources	22,721	13,089	761	
Myriopoda		60	35	—	95
Prototracheata		1	1	—	2
Arachnida		951	269	—	1,220
Pycnogonida		56	—	—	56
Crustacea		1,235	592	—	1,827
Echinoderma		33	—	—	33
Vermes		98	7	2	107
Brachiopoda		—	—	—	—
Polyzoa		31	—	—	31
Anthozoa		84	—	—	84
Hydrozoa		34	—	—	34
Porifera		369	292	224	885
Protozoa		6	—	—	6
Totals		34,167	68,513	1,035	103,715

Mammalia.—The additions to this class during the past year number four thousand three hundred and twelve, of which the following are most worthy of note:—

EUROPE.

Twenty-nine mammals from Stockholm; presented by Lord Lilford.

Forty-two mammals from South Norway; presented by R. J. Cuninghame, Esq.

One hundred and forty-five from France, collected by M. C. Mottaz; seventy-five from the South of France, twenty-nine from the Channel Islands; presented by Oldfield Thomas, Esq.

Two Genets from Biarritz; presented by the Zoological Society.

Two hundred and fourteen mammals from Spain, collected by Norberto Gonzalez. Five from Caterille, Hte. Garonne, collected by A. Robert.

Twenty-two mammals from Southern Spain; presented by Abel Chapman, Esq.

Fifty-one mammals from Greece, collected by M. C. Mottaz; presented by the Hon. Walter Rothschild, M.P., D.Sc.

Fifty-six mammals from Cephalonia; presented by J. I. S. Whitaker, Esq.

ASIA.

Three hundred and ninety-one mammals from China and Japan, collected by Mr. M. P. Anderson; presented by His Grace the Duke of Bedford, K.G.

Five mammals from Seistan; presented by Major R. E. Kennion.

One hundred and thirty-one mammals from Kashmir; presented by Colonel A. E. Ward.

Seventy-three mammals from Thian Shan; purchased.

Forty-three mammals from N.W. Fokien, China; presented by J. de la Touche, Esq.

One hundred and seventeen mammals from China, collected by the donor; presented by F. W. Styan, Esq.

Sixty-nine mammals from Hondo, Japan; presented by the Hon. Walter Rothschild, M.P., D.Sc.

Twenty-four mammals from Japan, collected by Kiyoshi Kanai; presented by His Grace the Duke of Bedford, K.G.

Thirteen Indian mammals; presented by the Bombay Natural History Society.

The skeleton of an Indian elephant; presented by H.R.H. The Prince of Wales, K.G.

Twenty-four mammals from Sikhim, Simla, and other Indian localities; presented by the executors of the late Dr. W. T. Blanford, C.I.E.

Thirteen mammals from Bhamo; presented by Major H. H. Harrington.

One hundred and five mammals, chiefly from the Malay Archipelago; presented by the Kuala Lumpur Museum.

Forty-two mammals from Saráwak; presented by Dr. Charles Hose.

Twenty-five mammals from North Borneo; presented by the British North Borneo Company.

Seventy-five mammals from Selangor, including four typical specimens; presented by the Selangor Museum.

AFRICA.

Forty mammals from Algeria; presented by the Hon. Walter Rothschild, M.P., D.Sc.

Twenty-nine mammals from Egypt; presented by the Egyptian Government Zoological Gardens.

Sixteen mammals from Somaliland; presented by R. E. Drake-Brockman, Esq.

Three mammals from British East Africa; presented by Captain the Hon. Henry C. Guest.

Two hundred and thirty-five mammals from Portuguese East Africa, collected by Mr. C. H. B. Grant; presented by C. D. Rudd, Esq.

Eighteen mammals, chiefly from Angoniland; presented by C. B. Storey, Esq.

Seven mammals from Lake Naivasha, B.E.A., and four skins of Gnus from the Nyero River; presented by R. J. Cuninghame, Esq.

Five skins of Gnus; presented by the Master of Belhaven.

Eleven mammals from Rhodesia; presented by the Bulawayo Museum.

Eleven Bats from Basutoland; presented by L. Wroughton, Esq.

Four Monkeys from Mombasa, Mozambique, West Africa and Congoland, types of *Cercopithecus stairsi ibeanus*, *C. stairsi mossambicus*, *C. nigrigenis*, and *C. lhoesti*; presented by the Council of the Zoological Society of London.

AMERICA, NORTH.

The skin and skeleton of the Newfoundland Reindeer (*Rangifer terræ-novæ*); presented by St. George Littledale, Esq.

Four mammals from Guadalupe Id., W. of Lower California; presented by the Hon. Walter Rothschild, M.P., D.Sc.

AMERICA, SOUTH.

Fifty-eight mammals from the Coast Region, Demerara; presented by F. V. McConnell, Esq.

Sixteen mammals from S. Chili; purchased.

Forty mammals from near Santiago, Chili; presented by J. A. Wolffsohn, Esq.

AUSTRALASIA.

Sixty-three mammals from British New Guinea; presented by Sir William Ingram, Bart.

Sixteen mammals from New Guinea; presented by the Hon. W. Rothschild, M.P., D.Sc.

One hundred and sixty-one mammals from Inkerman, Queensland, collected by Mr. W. Stalker; presented by Sir William Ingram and the Hon. John Forrest.

Sixty-four skins, skeletons, and skulls of seals, collected during the Voyage of the "Discovery," by Dr. E. Wilson; presented by the Antarctic Expedition Committee of the Royal Geographical and Royal Societies.

Aves.—The accessions number two thousand nine hundred and twenty-one. Of these the most noteworthy are as follows:—

EUROPE.

Six specimens of *Parus dresseri* and *P. borealis* from Gloucestershire; presented by G. H. Paddock, Esq.

Six examples of *Charadrius morinellus*, and two specimens of *Pelecanus onocrotalus*; presented by the Hon. N. C. Rothschild.

One hundred and fifty-nine mounted birds for the British Collection; presented by Rowland Ward, Esq.

ASIA.

Eighty-two birds from Borneo; presented by the British North Borneo Company.

Twenty-eight birds from Shan-Si; presented by Dr. E. H. Edwards.

One hundred and thirty-three birds from Upper Burma; purchased of Messrs. Gerrard and Sons.

Fifty-seven birds and eggs from Burma; presented by Major H. H. Harington.

Two specimens of *Micropardia inglisi*—types of the species; presented by Charles M. Inglis, Esq.

Two hundred and eighty-eight birds from Tian Shan; purchased of Mr. Kutzenko.

Sixty-six birds, chiefly from Bannu, N.W. India (including the type of *Molpastes magrathi*); presented by Major H. A. F. Magrath.

Two females of *Calophasis burmanicus* from the Ruby Mines, and one *Clangula glaucion*; presented by E. W. Oates, Esq.

Nests with eggs of *Geocichla varia* and *G. sibirica* from Japan; presented by Radcliffe Saunders, Esq.

Three hundred and nine birds from Kohat, N.W. Provinces, India; presented by Lieut. C. H. T. Whitehead.

AFRICA.

Two hundred and forty-one birds from Cameroon—including the types of six new species—collected by G. L. Bates, Esq.; purchased.

Twenty-five eggs from Bitey, River Ja, Cameroon; presented by G. L. Bates, Esq.

A specimen of *Pitta reichenowi* from Jinja, 15 miles W. of Ripon Falls, Uganda; presented by Dr. Cuthbert Christy.

One hundred and twenty-five birds collected by Captain Hamerton in Somaliland; purchased.

Two examples of *Scotocerca inquieta*—types of the species; presented by M. J. Nicoll, Esq.

Thirty-two birds from Liberia; presented by J. M. Pye-Smith, Esq.

Type specimens of *Polioospiza mennelli* and *Pinarornis rhodesia*; presented by the Trustees of the Rhodesian Museum.

An example of *Colius kirbyi*, from Lydenburg, E. Transvaal—type of the species; purchased.

AMERICA, SOUTH.

Two hundred and forty-three birds from Paraguay; presented by the Hon. Wyndham Knatchbull-Hugessen.

AUSTRALASIA.

Examples of *Paradisea minor*, *Cicinnurus regius*, and *Diphyllodes hunsteini* from S.E. New Guinea; presented by Sir William Ingram, Bart.

Ninety-four birds from New Guinea, collected by Mr. Walter Goodfellow; purchased.

NEW ZEALAND.

Fourteen birds from New Zealand, including the type of *Pseudogerygone macleani*; presented by J. C. McLean, Esq.

Reptilia.—The accessions number seven hundred and thirty-six, four hundred and sixty-four presented, two hundred and sixty-two purchased, and ten received in exchange. The following deserve special mention:—

EUROPE.

A red variety of the Viper (*Vipera berus*) from Hampshire; presented by B. Piffard, Esq.

Thirty-nine Reptiles from Sicily; collection of Professor O. Neumann; purchased.

ASIA.

Twenty-eight Reptiles from Persia, including the types of a new Lizard (*Lacerta chlorogaster*); collected by R. B. Woosnam, Esq.; presented by Colonel Bailward.

A stuffed Crocodile (*Crocodylus porosus*) from India; presented by Ratan Tata, Esq.

Thirty-one Reptiles from India, from the collection of the late Dr. W. T. Blanford, F.R.S.; presented by Mrs. Blanford.

A Lizard (*Lygosoma halianum*) new to the collection, from Ceylon; presented by Professor J. Graham Kerr, F.R.S.

One hundred and one Snakes from India, Assam, and Burma, including a specimen of *Ablabes stoliczkae*, new to the collection; presented by Major F. Wall, I.M.S.

A Snake (*Coluber moellendorffii*), new to the collection, from Indo-China; presented by Monsieur A. Krempf.

AFRICA.

Fourteen Reptiles from Egypt and the Sudan; presented by Captain S. S. Flower.

Forty Reptiles from Uganda, including the type of a new Snake (*Aparallactus christyi*); presented by Dr. C. Christy.

Twenty-seven Reptiles from Gaboon, including examples of a Skink (*Mabuia raddonii*), new to the collection; collected by Dr. W. J. Ansorge; purchased.

Forty-one Reptiles from Cameroon, including the type of a new Snake (*Thrasops batesii*); collected by Mr. G. L. Bates; purchased.

Four Reptiles from the Kassai, Congo, including the type of a new Snake (*Hypotophis wilsoni*); presented by H. Wilson, Esq.

Nineteen Reptiles from Angola, including examples of a Lizard (*Hemidactylus benguelensis*), new to the collection; presented by Dr. Creighton Wellmann.

Ten Reptiles from the Transvaal; presented by F. W. Armstrong, Esq.

Eighty Reptiles, including the type of a South African Lizard (*Zonurus capensis*), from the collection of the Army Medical College.

AMERICA, CENTRAL AND SOUTH.

Twenty-five Reptiles from Nicaragua, including specimens of *Anolis concolor* and *A. bransfordii*, Lizards new to the collection, collected by Mr. G. Palmer; purchased.

Nine Reptiles from Colombia, including the types of two new Lizards (*Lepidoblepharis peraccae* and *Anolis palmeri*) and of a new Snake (*Atractus melas*), collected by Mr. G. Palmer; purchased.

Fifteen Reptiles from Venezuela, including the types of a new Snake (*Liophis opisthotaenia*), collected by Senor Briceño; purchased.

Seventeen Reptiles from Brazil, including the type of a new Snake (*Rhachidus brazili*); presented by Dr. Vital, Brazil.

Seventeen Reptiles from Eastern Peru, including the types of a new Snake (*Leptognathus schunkii*), and of a new Lizard (*Polychrus liogaster*), collected by Mr. C. Schunke; purchased.

AUSTRALASIA.

Twelve Reptiles from Dutch New Guinea, including the types of a new Snake (*Apistocalamus loennbergii*), collected by Mr. A. E. Pratt; purchased.

Forty-two Reptiles from New Guinea and Northern Australia, including the type of a new Snake (*Diemenia ingrami*), collected by Mr. W. Stalker; presented by Sir William Ingram, Bart., and the Hon. John Forrest.

Forty Reptiles from Central Australia; purchased.

Two specimens of *Anolis townsendi*, a Lizard new to the collection, from Cocos Island; presented by Dr. J. C. Thompson.

Batrachia.—The accessions total three hundred and sixty-nine, one hundred and thirty-seven presented, two hundred and twenty-four purchased, and eight received in exchange; the following are the most important:—

EUROPE.

Eight Batrachians from Sicily; purchased of Professor O. Neumann.

ASIA.

Twenty-two Batrachians from Ceylon; presented by E. E. Green, Esq.

The type of a new Frog (*Megalophrys robusta*) from Assam; received from the Indian Museum.

AFRICA.

The type of a new Newt (*Molge macrosoma*) from Egypt; presented by Captain S. S. Flower.

Seventy-seven specimens from Cameroon, collected by Mr. G. L. Bates; purchased.

Fifty-nine specimens from Gaboon, collected by Dr. W. J. Anson; purchased.

The type of a new Frog (*Hylambates greshoffi*) from Stanley Pool; received from the University of Utrecht.

Sixteen Batrachians from Rhodesia, collected by Mr. E. C. Chubb; presented by the Rhodesia Museum.

AMERICA, CENTRAL AND SOUTH.

Twelve Batrachians from Nicaragua, collected by Mr. G. Palmer; purchased.

Fifteen Batrachians from Colombia, including the types of a new Tree-frog (*Hyla palmeri*), collected by Mr. G. Palmer; purchased.

AUSTRALASIA.

Twenty Batrachians from new Guinea and Australia, collected by Mr. W. Stalker; presented by Sir William Ingram, Bart., and the Hon. John Forrest.

Pisces.—The accessions number one thousand five hundred and seventy-eight; one thousand two hundred and thirty-nine by presentation, three hundred and thirty by purchase, and nine received in exchange; the following deserve special mention:—

MISCELLANEOUS.

Twenty-seven Fishes from various localities, including examples of several species new to the collection; presented by Dr. W. Wolterstorff.

Five Fishes from various localities; presented by the Hon. Walter Rothschild, M.P., D.Sc.

EUROPE.

The types of a new Char (*Salvelinus maxillaris*) from Ben Hope, Sutherlandshire; presented by Dr. F. Penrose and Mr. John Murray.

A series of Char (*Salvelinus willughbii*) from Loch Loyal, Sutherlandshire; presented by Mr. J. McKay.

Two Char (*Salvelinus colii*) from Lough Mask; presented by Alick Duncan, Esq.

A golden variety of the Brook Trout (*Salmo fario*) from the Wye; presented by R. B. Marston, Esq.

The types of a new Pollan (*Coregonus altior*) from Lough Erne; presented by Major H. Trevelyan.

Two Pollan (*Coregonus elegans*) from the Shannon; presented by Harrod's Stores, Ltd.

An ambicolorate Flounder (*Pleuronectes flesus*); presented by E. Newton, Esq.

Ambicolorate and reversed specimens of the Flounder (*Pleuronectes flesus*) from Dalbeattie; purchased.

A large Bass (*Morone labrax*) from off the Bell Rock; presented by Professor D'Arcy W. Thompson, C.B.

A very large Gurnard (*Trigla hirundo*) from the Isle of Man; presented by W. Adams, Esq., J.P.

A Salmon (*Salmo salar*) from the Dogger Bank, and a large Electric Ray (*Torpedo hebetans*), an abnormal Plaice (*Pleuronectes platessa*), and two malformed Mackerel (*Scomber scombrus*) from the London Market; presented by J. Wrench Towse, Esq.

A deep-sea Fish (*Alepocephalus giardi*) from the Atlantic; presented by Professor W. N. Parker.

A rare Fish (*Ceratias couesii*) from the Bay of Biscay ; presented by Mr. Stammwitz.

Seventy fresh-water Fishes from Spain, including examples of *Chondrostoma miegii* and *C. polylepis*, species new to the collection ; purchased.

ASIA.

Twenty-four Fishes from Singapore and Sumatra, including the types of several new species ; presented by W. Morton, Esq.

Three hundred and eighteen Fishes from the Indian Ocean, including the types of a large number of new species and examples of several other species new to the collection ; presented by J. Stanley Gardiner, Esq., M.A., F.R.S., and the Percy Sladen Trust.*

Twenty-four Fishes from Yunnan, including the types of three new species (*Acanthorhodeus elongatus*, *Barilius grahami*, and *Nemachilus oxygnathus*), collected by Mr. J. Graham ; purchased.

One of the types of a remarkable Loach (*Crossostoma davidi*) from China ; received from the Paris Museum.

Thirty-three freshwater Fishes from Formosa, including the types of five new species (*Ishikavia macrolepis*, *Gymnostomus formosanus*, *Clarias sauteri*, *Pseudobagrus brevianalis*, and *Gobius candidianus*), collected by Herr Sauter ; purchased.

AFRICA.

Thirteen Fishes from the Fayum ; presented by Dr. Cunningham and C. L. Boulenger, Esq.

Two hundred and eighteen Fishes from Galla-land, including examples of several new species, collected by P. Zaphiro ; presented by W. N. McMillan, Esq.

The types of *Hemitilapia bayoni* from Lake Victoria and *Barbus antinorii* from Tunis ; presented by the Museo Civico, Genova.

One hundred and seven Fishes from Lake Nyasa, including the types of several new species ; presented by Captain E. L. Rhoades.

Forty-eight specimens from the Zambesi, including the types of six new species (*Barbus victoriae*, *B. fairbairnii*, *B. codringtonii*, *B. chilotes*, *B. altidorsalis*, *Paratilapia codringtonii*, and *P. tafuensis*) ; presented by T. Codrington, Esq.

Twelve Fishes from Nigeria ; presented by A. E. Kitson, Esq.

Sixty-five fishes from Lagos ; presented by Major G. E. Bruce.

Seventy-one specimens from Cameroon, including the types of four new species (*Barbus aspilus*, *B. callipterus*, *Nannocharax ocellicauda*, and *Mastacembelus longicauda*), collected by Mr. G. L. Bates ; purchased.

* The Reptiles and Batrachians belonging to this collection were acknowledged in the Report for 1907.

The types of *Barbus salessii* and *Barilius steindachneri* from French Guinea; received from the Paris Museum.

Sixteen Fishes from Liberia and Ascension, including examples of a Blenny (*Salarias textilis*), new to the collection; presented by Dr. A. McCloy.

Sixty-five Fishes from Gaboon, including specimens of *Mastacembelus niger*, new to the collection; collected by Dr. W. J. Ansorge; purchased.

One of the types of *Distichodus petersii* from the Kingani River; received from the Berlin Museum.

Twenty-two Fishes from the Transvaal; presented by Lieutenant S. Pershouse.

Thirty-three Fishes, including the types of a new species (*Barbus lobocheilus*) from Natal; from the collection of the Army Medical College.

Sixteen Fishes from South Africa; presented by Dr. J. D. F. Gilchrist.

Thirteen Fishes from the Cape of Good Hope; purchased.

Thirty fresh-water Fishes from Africa, including the types of three new species (*Eleotris pleurops*, *Fundulus arnoldi*, and *Haplochilus liberiensis*); presented by Herr J. Paul Arnold.

AMERICA.

A stuffed Tarpon (*Megalops thrissoides*) from Tampico; presented by A. L. Allen, Esq.

Thirty-two Fishes from Mexico and the Caribbean Sea, including the types of a new species (*Cichlosoma lauræ*) and examples of three others (*Enneanectes carminalis*, *Clinus bimaculatus*, and *Eleotris abacurus*) new to the collection; collected by Dr. P. R. Lowe; presented by Laura, Countess of Wilton.

Eight Fishes from the West Indies, including specimens of two Sting-Rays (*Trygon centrurus* and *T. hastatus*) new to the collection; purchased.

A Blenny (*Tripterygium kalisheræ*), new to the collection, from the Tortugas islands; presented by Dr. J. C. Thompson.

Twenty Fishes from South America, including the types of three new species (*Poecilia heteristia*, *Otocinclus arnoldi*, and *Cichlosoma biocellatum*); presented by Herr J. Paul Arnold.

Sixteen Fishes from Colombia, including the types of two new species (*Arges heterodon* and *A. retropinna*), collected by Mr. G. Palmer; purchased.

One of the types of *Tetragonopterus longipinnis* from Dutch Guiana; received from the Leyden Museum.

Examples of *Pseudochalceus perstriatus*, new to the collection, from Brazil; purchased.

Twenty-eight Fishes from the La Plata, including the type of a new Loricariid (*Plecostomus taeniatus*); received from the Berlin Museum.

Examples of *Myxus curvidens*, new to the collection, from Argentina; purchased.

The types of a new Fish (*Galaxias bullocki*) from Chile, collected by Mr. D. S. Bullock; purchased.

Mollusca.—Two thousand eight hundred and forty-six specimens were added to the collection, the most important of which are the following:—

MISCELLANEOUS.

Thirty-three specimens of *Olividae* from various localities; presented by F. G. Bridgman, Esq.

Thirty-five freshwater shells figured in Hanley's "Photographic Conchology"; presented by H. Harvey, Esq.

Three hundred and seventy-one shells from many localities, representing species mostly new to the collection; purchased.

Seventy-four shells, mostly terrestrial, including the types of three new species; purchased.

Seventy-two shells from various localities, including the types of eight new species; purchased.

EUROPE.

Fifty specimens of Pteropoda from the West of Ireland; presented by E. W. L. Holt, Esq.

ASIA.

One hundred and twenty-six land and freshwater shells, including many from Lake Baikal and other localities, new to the collection; purchased.

One hundred and sixty-nine land and freshwater shells, mostly from Tonkin, representing many species new to the collection; purchased.

Fifty-one land shells from Japan, including seventeen species recently described; purchased.

One hundred and nineteen specimens from Formosa, Lifu, etc., nearly all species new to the Museum; purchased.

One hundred slides of radulæ, jaws, genitalia, etc., of Indian and other Mollusca; purchased.

AFRICA.

One hundred and five land shells from South Africa, including the types of twenty-four new species; presented by J. H. Ponsoy, Esq.

AMERICA.

Twenty baroques or hinge pearls from North American Unionidæ; presented by E. Hopkins, Esq.

Four hundred and thirty land, freshwater and marine shells from the Bahama Islands; presented by C. W. Branch, Esq.

AUSTRALASIA.

One hundred and twenty-four marine shells from Masthead Islands, Queensland; presented by C. Hedley, Esq.

Forty-two land shells from Bougainville Island, Solomon group; purchased.

Fifty-eight marine shells from New Zealand, including twenty-two species new to the collection; presented by H. Suter, Esq.

Insecta.—Eighty-six thousand five hundred and seventy-one specimens have been added to this part of the collection during the year, composed as follows:—

Coleoptera	-	-	-	-	-	-	-	65,344
Lepidoptera	-	-	-	-	-	-	-	9,145
Hymenoptera	-	-	-	-	-	-	-	4,315
Diptera	-	-	-	-	-	-	-	4,318
Rhynchota	-	-	-	-	-	-	-	2,041
Orthoptera	-	-	-	-	-	-	-	1,094
Neuroptera	-	-	-	-	-	-	-	279
Nests, eggs, &c.	-	-	-	-	-	-	-	35
Total	-	-	-	-	-	-	-	<u>86,571</u>

The following are some of the most important of these accessions:—

FROM VARIOUS LOCALITIES.

The 3rd and 4th instalments of the David Sharp Collection of Coleoptera, containing about 30,000 *Staphylinidæ*, including about 2,000 types; and about 20,000 Coleoptera from New Zealand and the Hawaiian Islands, about 400 of which are types.

Two hundred and seventy-three *Papilionidæ* from the Holarctic Region; presented by H. J. Elwes, Esq., F.R.S.

One hundred and six Coleoptera, chiefly types of Herr H. Wagner; six thousand six hundred Coleoptera, five hundred and forty-five Lepidoptera, five hundred Rhynchota, four hundred Hymenoptera, and one hundred Diptera from Southern Africa; twenty-one Coleoptera from India, including many types; and three hundred and fifty-seven Coleoptera from N. America; presented by Guy A. K. Marshall, Esq.

Ninety-three Microlepidoptera; one hundred and fifty-nine Diptera and six Hymenoptera from the South of France; and sixty-three Diptera from Algeria; presented by the Hon. Walter Rothschild, M.P.

Two hundred and eighty-four Moths and ten pupæ, forty-six Diptera, eighty Rhynchota, seventy Coleoptera and two hundred and seventy-three Hymenoptera; presented by G. Meade-Waldo, Esq.

Sixty-three Hymenoptera, type specimens described by Dr. Schulz; purchased.

Two hundred and ninety-nine Butterflies from Africa, and the Holarctic Region, and one hundred and sixty-two *Bruchidæ* from Mexico and Costa Rica; presented by F. Ducane Godman, Esq., D.C.L., F.R.S.

ASIA.

Two hundred and twenty-nine Coleoptera, sixty-one Hemiptera, one hundred and sixty-two Hymenoptera, thirty-three Orthoptera, sixty-two Diptera, ninety Lepidoptera, and sixteen Neuroptera from N. China, Corea, Japan and Quelpart Island; presented by His Grace the Duke of Bedford, K.G.

One thousand two hundred and eighty Formicidæ from India; presented by R. C. Wroughton, Esq.

Seventy-five Coleoptera, fifteen Rhynchota, two Orthoptera, two Diptera, two Neuroptera, one hundred and forty-four Moths and eleven Hymenoptera from Singapore and Johore; presented by H. N. Ridley, Esq.

Two thousand and thirty-eight Butterflies, part of the Frederic Moore Collection; purchased.

Two hundred and seventy-five Rhynchota, sixty-four Orthoptera, seventy-six Culicidæ and thirty-two Moths from the Philippine Islands; presented by C. S. Banks, Esq.

AFRICA.

Two hundred and fifty-one Butterflies, two hundred and thirty-two Moths, thirty-eight Coleoptera, seventeen Rhynchota, four Orthoptera and one Neuropteron from the White Nile; presented by W. E. Reymes-Cole, Esq.

Ninety Hymenoptera, eleven Neuroptera, twenty-one Rhynchota, eight Orthoptera, seven Moths, one thousand one hundred and sixty Diptera and ninety-six Coleoptera from Ashanti and the Gold Coast; collected by Dr. W. M. Graham, W.A.M.S.

One thousand six hundred and fifty Butterflies, five hundred and thirty-two Moths, five thousand two hundred and forty-four Coleoptera, one thousand one hundred Hymenoptera, three hundred and thirty Rhynchota, five hundred and ten Orthoptera, one hundred and sixty-five Neuroptera and two hundred and eighty Diptera, collected by Mr. Sheffield A. Neave in Northern Rhodesia and S.E. Congo State; purchased.

AMERICA.

Two hundred and ninety-four Moths and two Butterflies from South America; presented by E. Dukinfield Jones, Esq.

Two hundred and ninety-five Moths and two hundred and ninety Hymenoptera from British Guiana; presented by J. Rodway, Esq.

Twenty-three Moths from Canada; presented by Dr. James Fletcher.

Four hundred and fifty Diptera and three Hymenoptera from British Guiana; presented by Dr. K. S. Wise.

AUSTRALASIA.

Twenty-eight Hymenoptera; presented by R. E. Turner, Esq.

Three hundred and eighty Diptera and ten *Ephemeridæ* from S. Queensland; presented by Dr. T. L. Bancroft.

Myriopoda.—Ninety-five specimens were received during the course of the year.

Arachnida.—The accessions number one thousand two hundred and twenty. The more important are:—

MISCELLANEOUS.

Twelve Ticks from various localities, including co-types of six new species; presented by Prof. Nuttall and C. Warburton, Esq.

ASIA.

One hundred and six Ticks from Transcaucasia, including the co-types of a new species (*Hæmaphysalis crassa*); presented by Dr. Dschunkovsky.

Eleven Arachnida from India and Burma, including co-types of a new species; presented by the Trustees of the Indian Museum, Calcutta.

Eleven specimens, including the type of a new species of Tick (*Hæmaphysalis japonica*), from Japan; presented by the Duke of Bedford, K.G.

AFRICA.

Forty Ticks from Morocco; presented by A. M. Madden, Esq.

Fifty-three Arachnida from Cameroon, including the type of a new species of spider (*Euphrietus spinosus*); purchased.

Thirty-two Ticks from W. Africa; presented by G. Ganders, Esq.

One hundred and twenty-four Ticks from Nyasaland, including the types of *Rhipicephalus falcatus*; presented by Dr. J. E. S. Old.

Nineteen Arachnida from Rhodesia; presented by J. folliott Darling, Esq.

Twenty-four Scorpions from the Transvaal ; purchased.

One hundred and twenty-two Ticks taken from various animals in Mauritius ; presented by Monsieur D'Emmerez de Charmoy.

AMERICA.

Fifty Arachnida from Venezuela ; purchased.

Thirty Arachnida from Trinidad ; presented by P. Carmody, Esq.

AUSTRALASIA.

Thirteen Arachnida from Central Australia ; presented by H. J. Hillier, Esq.

Pycnogonida.—Fifty-six Pycnogons have been acquired, the more important being as follows :—

EUROPE.

Twenty specimens from the Færoe Channel ; presented by Dr. R. N. Wolfenden.

ASIA.

Twenty-two specimens from the Indian Ocean, including types of four new species ; presented by J. Stanley Gardiner, Esq., F.R.S.

Crustacea.—The additions number one thousand eight hundred and twenty-seven ; of this number one hundred and sixty are from the "Discovery" collections, including the types of nine new species ; of the remaining additions the following are the most important :—

MISCELLANEOUS.

Thirty-two specimens of Crustacea selected from the Army Medical College Collection.

Ten specimens of Crustacea, including types of a new species of Crab from a deep-sea Telegraph cable ; presented by Dr. O. G. F. Luhn.

Eight specimens of Crustacea from the Atlantic ; presented by the Earl of Crawford, K.T., F.R.S.

Seven specimens (co-types) of a new parasitic Copepod ; presented by Dr. J. D. F. Gilchrist.

Three specimens of Parasitic Copepoda ; presented by Prof. W. C. McIntosh, F.R.S.

Two specimens of a Cirripede (*Tubicinella trachealis*) ; presented by Dr. W. G. Ridewood.

Nineteen specimens of Isopoda and Amphipoda, mostly types of species described by the donor ; presented by A. O. Walker, Esq.

Ten specimens of *Conilera cylindracea* ; presented by Dr. W. G. Ridewood.

One hundred specimens of Mysidacea, including co-types of two new species; presented by W. M. Tattersall, Esq.

A series of cast shells of a prawn (*Leander fabricii*), and two specimens of a subterranean Amphipod; presented by H. J. Waddington, Esq.

A specimen of a parti-coloured Lobster; presented by J. Wrench Towse, Esq.

Thirty-eight specimens of River-Crabs, from various localities; purchased.

EUROPE.

Three hundred and eighty-five specimens from Plymouth; purchased.

Twenty-two specimens of Crustacea from Norway; presented by Herr Alf Wollebaek.

Sixty-three specimens of Crustacea from Norway; collected and presented by Dr. W. T. Calman.

One hundred and five specimens of Copepoda (including types of eighteen new species) and four hundred and three specimens of Caridea (including type of one new species); presented by the Department of Agriculture (Fisheries Branch) Dublin.

Four specimens of British terrestrial Isopoda, new to the collection; presented by R. S. Bagnall, Esq.

Forty-six specimens of terrestrial Isopoda from Southern Europe; purchased.

ASIA.

Ten specimens (co-types) of a new Mysid, and one specimen of a crab; presented by the Trustees of the Indian Museum.

Twenty-two specimens of Crustacea from Cocos Keeling Island; presented by Dr. F. Wood-Jones.

Fifty-nine specimens of fresh-water Crustacea from Central Formosa; purchased.

Fifty-two specimens of Marine Crustacea from Formosa; purchased.

AFRICA.

Four Crustacea from Angola; presented by Dr. Creighton Wellman.

Seven specimens of a Cirripede from South Africa; presented by H. B. Preston, Esq.

A co-type of a new species of Isopod from Algiers; presented by R. Gurney, Esq.

Ten terrestrial Isopoda from Egypt; presented by Capt. S. S. Flower.

A Spiny Lobster (*Jasus lalandii*) from the Cape; presented by J. Roberts, Esq.

Three Spiny Lobsters (*Panulirus regius*) from the West African Coast; presented by Dr. J. Cleasby Taylor.

Six specimens of River-Prawns from Egypt; presented by Capt. S. S. Flower.

A River-Crab and a River-Prawn from Nigeria; presented by A. E. Kitson, Esq.

Four specimens of a River-Crab from Victoria Falls; presented by T. Codrington, Esq.

Twenty-seven specimens of Brachyura from Tanganyika, including types of two new species; presented by the Tanganyika Exploration Committee.

A Crab from West Africa; presented by Herr J. Paul Arnold.

AMERICA.

Twenty-two specimens of Crustacea from the West Indies; presented by Dr. P. R. Lowe.

Two specimens of a River-Prawn from Trinidad; presented by L. Guppy, Jun., Esq.

Seven specimens of a parasitic Crab from Chile; presented by Rev. Dr. A. N. Malan.

AUSTRALASIA.

Seventeen specimens of Crustacea from New Zealand; presented by the Christchurch Museum, New Zealand.

Thirteen specimens of freshwater Crustacea from New Zealand; presented by Prof. Chilton.

Four specimens (co-types) of a remarkable new form of Crustacea, *Paranaspides lacustris*, from the Great Lake of Tasmania; presented by Geoffrey Smith, Esq.

Five specimens, co-types of a recently described Crustacean (*Koonunga cursor*) of exceptional interest, presented by O. A. Sayce, Esq.

Three Crayfish from Central Australia; presented by H. J. Hillier, Esq.

Five specimens of a new River-Crab and one River-Prawn, from New Guinea; presented by Sir William Ingram, Bart.

Echinoderma.—Some very beautiful specimens of the common *Echinus esculentus* were prepared and presented by Mr. E. T. Browne, M.A.; the rare and interesting *Neoplax ophiodes* was found in Mr. J. Stanley Gardiner's collection from the Indian Ocean, which contained also a new species.

Vermes.—The "Discovery" collection of Antarctic Sipunculoids has been incorporated; three species of *Pheretima* and a *Dichogaster* have been determined by Dr. Cognetti di Martiis; *Phreatothrix (Trichodrillus) cantabrigiensis*, from a well near Cambridge, has been presented by Mr. Wyatt.

Polyzoa.—The more noteworthy additions are—

Six beautifully preserved specimens of fresh water *Polyzoa*, with tentacles expanded; presented by C. F. Rousselet, Esq.

Fourteen types and co-types of Fresh-water *Polyzoa* from Lake Tanganyika, collected by Dr. W. A. Cunnington; presented by the Tanganyika Exploration Committee.

Anthozoa.—Attention should be called to the collection of thirty-eight specimens made and presented by Prof. Herdman, F.R.S., in Ceylon and described by Prof. J. A. Thomson and Dr. Henderson; and to sixteen specimens of *Goniopora* described in vol. iv. of the catalogue of Corals and presented by the University Museum of Zoology, Cambridge.

Hydrozoa.—A set of five bottles of *Hydrozoa* from Birkel el Qurun, described by C. L. Boulenger; presented by the Egyptian Survey Department. This little collection includes the recently described Fresh-water Medusa *Moerisia lyonsi*, C. L. Boulenger, and its Hydroid phase.

Porifera.—Among the interesting and important additions during the year may be mentioned the following:—

A collection comprising two hundred and twenty-four pieces of specimens (mostly types) received in exchange from the Berlin Museum, and including "Valdivia" Hexactinellida, described by Prof. F. E. Schulze, Sponges from the Red Sea, described by Keller, and Sponges from the Pacific and from the southern end of S. America and from Chile, described by Dr. J. Thiele.

A set of two hundred and thirty-one preparations of Tetraxonid Sponges of the deep sea German Expeditions "Valdivia" and "Gazelle"; purchased.

A set of sixty-one preparations, mostly from type specimens, of Pacific Geodidae; purchased.

A valuable set of twenty-four preparations of species and varieties of American Spongillidae; presented by Dr. Edward Potts.

VI.—*Economic Zoology.*

As in former years, the work done in connection with this section has had reference to Insects. The question of the spread of disease by insect agency has brought to the Museum numerous collections of biting insects from various parts of the world. The specimens sent have been named for the donors as far as was practicable, and the various questions asked respecting them have been replied to.

Besides these, numerous other insects which were injurious or which caused annoyance have been sent to be named and for advice as to preventive measures.

The following are some of the subjects of inquiry :—

- (1) Small beetles infesting flour (*Ptinus* and *Palorus*).
- (2) Moths injuring mealies (*Laphygma exempta*).
- (3) Weevils injuring Cyclamen (*Otiorrhynchus*).
- (4) House-mites in furniture, and in rush-bottom chairs.
- (5) Paste mites, *Psocidæ*, swarming in a house ; in books ; in straw wrappers to mineral water bottles.
- (6) Cork oak injured by larvæ of a beetle (*Coræbus bifasciatus*).
- (7) Longicorn beetles (*Oreodera* and *Eudesmus*) cutting off branches from Cocoa and Coffee trees in Trinidad.
- (8) Melons injured by weevils (*Baridius*).
- (9) Wine corks injured by insects.
- (10) Basket injured by small beetles (*Lycetus*).
- (11) Small beetles boring into Cocoa trees in Colombia (*Scolytidæ*).
- (12) Weevils damaging Cocoa trees in Uganda (*Rhynchophorus*).
- (13) Scale insects on Cocconut palm in Nigeria (*Aspidiotus hederæ*).
- (14) Large scale insects on M'sasa, Orange and other trees in Rhodesia (*Walkneria*).
- (15) Caterpillars of a moth defoliating *Shorea* in India (*Ingura subapicalis*).
- (16) Homopterous insect injuring Sugarcane in Trinidad (*Tomaspis rubra*).
- (17) Fly bred from boil on man's leg in W. Africa (*Cordylobia anthropophaga*).
- (18) As to whether Forest Flies, *Hippobosca*, convey disease among horses.
- (19) Numerous questions respecting Tsetse flies and their distribution.
- (20) Flies injuring Carnations (*Hylemyia nigrescens*).
- (21) Flies the larvæ of which were supposed to be subcutaneous parasites (*Cordylobia anthropophaga* and *Bengalia depressa*).
- (22) Fly injuring Seakale (*Phorbia*).
- (23) Ceara scrap rubber after being washed with boiling water and hung up to dry, afterwards found to be infested with maggots (*Musca domestica*).
- (24) Large numbers of larvæ in lawn (*Bibio*).

VII.—Visitors and Students.

The number of visits paid to the three sections of the Department by Students and other persons requiring assistance

or information amounted to 10,220. In the ten previous years the numbers were :—

11,043	in the year	1907.
10,813	„	1906.
11,811	„	1905.
11,824	„	1904.
11,627	„	1903.
10,633	„	1902.
12,813	„	1901.
11,923	„	1900.
10,728	„	1899.
10,830	„	1898.

Sidney F. Harmer.

DEPARTMENT OF GEOLOGY.

I.—*Arrangement and Conservation.*

Mammalia (Galleries 1 and 2).—The Standing Collection of fossil lemurs from a marsh in Madagascar has been registered and incorporated.

The unexhibited remains of *Rhinoceros* from Pleistocene deposits have been arranged and labelled in the drawers of table-case 4.

The remains of early Tertiary Perissodactyla and *Hipparion*, exhibited in table-case 5, have been re-tableted with new printed labels, and re-arranged to admit important recent acquisitions.

Case U, containing the Dinocerata, has been repainted and provided with new printed labels.

Pier-cases 20 and 21 have been re-arranged and re-fitted for the exhibition of recent acquisitions of plaster casts of Lipterna (especially *Macrauchenia*) and Toxodontia, from the National Museum, Buenos Aires.

The exhibited remains of Edentata in table-case 14 B have been cleaned, re-labelled, and partly re-arranged.

Four photographs and some fragmentary remains of a mammoth and rhinoceros found preserved by petroleum in an ozokerite mine in Galicia, Austria, have been framed and exhibited on the wall near pier-case 32.

Pier-cases 36, 37, have been completely re-fitted and re-painted for the exhibition of *Stegodon* and *Mastodon* from Asia and Europe; the specimens have been mounted and provided with new printed labels.

Number of specimens of *Mammalia* registered, 469.

Reptilia and Amphibia (Galleries 3, 4, 5, 11).—A plaster cast of the fore limb of *Cetiosaurus oxoniensis*, from the Stonesfield Slate near Oxford, has been mounted and exhibited on Stand K.

Limb-bones of *Dinodocus mackesoni* from the Upper Greensand of Hythe, Kent, have been mounted and added to the collection of Sauropodous Dinosaurian bones in wall-case 4.

An important series of specimens of *Stereosternum* from the Permo-Carboniferous of Brazil has been incorporated, some being exhibited in table-case 24 and in a frame on the adjacent wall.

The large plaster cast of *Plesiosaurus cramptoni* in wall-case 13 has been renovated and re-painted.

Number of specimens of *Reptilia and Amphibia* registered, 695.

Pisces (Gallery 6).—The naming of the Devonian Acanthodians in table-case 1 has been revised, and new printed labels have been prepared.

Table-case D has been cleaned and painted, and the exhibited collection of *Pterichthys* has been provided with new printed labels.

The specimens of *Cephalaspis* in table-case C, and of *Dipterus* in table-case 10, have been re-tableted with new printed labels.

The collection of *Protosphyæna* in the drawers of table-case 21 has been revised and arranged.

Wall-cases 15, 16 have been cleaned and re-fitted to accommodate large teleostean fishes from the Chalk of Kansas. Several specimens have been framed, and the whole collection has been provided with new printed labels.

Slabs of Cretaceous limestone from Mount Lebanon, showing shoals of small fishes, have been mounted in a glazed frame on the wall between wall-cases 15, 16.

Number of specimens of *Pisces* registered, 207.

Mollusca (Galleries 7 and 8).—The Conularida in table-case 16, Gallery 7, have been revised, and re-tableted with new printed labels.

The Cephalopoda registered, labelled, and incorporated during the year include:—An extensive series from the Jurassic rocks of Dorset; specimens from the Cretaceous of Devon; a series of figured examples from the Lower Albian of Hanover; the Caroline Birley bequest of miscellaneous specimens; numerous British species from the Rev. J. F. Blake's collection; and various other recent acquisitions.

Five specimens have been mounted on blocks and added to the wall-cases in Gallery 7, viz., 2 Palæozoic Nautiloids, 1 Inferior Oolite Ammonite, 1 Upper Lias Ammonite, and 1 Jurassic Nautilus to wall-cases 1, 10, 11, and 13, respectively.

The "List of types, figured and historical specimens of Fossil Cephalopoda," has been brought up to date.

The Lamellibranchia and Gastropoda from the English White Chalk in table-case 6 have been re-arranged, re-tableted, and re-labelled, with the incorporation of numerous new specimens.

The exhibited collections of Hippurites and of British and foreign Cretaceous Ammonites have also been revised.

Opalised shells from the Upper Cretaceous of New South Wales have been mounted and labelled for exhibition in wall-case 6, Gallery 8.

Some Russian Sarmatian Mollusca, and a small collection of fossil shells exhibiting pearls, have been mounted and labelled for exhibition in wall-case 3, Gallery 8.

A small collection to illustrate the supposed evolution of species of *Viviparus* (*Paludina*) in the Pliocene of Austria, has been mounted in a glazed frame on the wall between wall-cases 2, 3, Gallery 8.

The unexhibited collections of French Tertiary Lamellibranchia and Gastropoda have been removed from the drawers in Gallery 8 to a new cabinet in the Workroom, in which they have been re-arranged and labelled.

The unexhibited collection of foreign Palæozoic Gastropoda and Lamellibranchia has been removed from the drawers beneath table-cases 15 and 16, Gallery 8, and arranged in the drawers beneath the upright cases A 5 and A 6 in the centre of the same gallery.

A slip-catalogue of the types, figured and historical specimens of Palæozoic Gastropoda and Lamellibranchia is in progress.

The Lamellibranchia and Gastropoda registered, labelled, and incorporated during the year include:—Ordovician and Devonian specimens from the Valpy and Vicary collections; a Jurassic series from the J. F. Blake collection, and some Jurassic specimens from Arabia; English, French, and Indian Eocene collections; Oligocene specimens from Germany (K. Fischer collection); and Post-Pliocene specimens from India (presented by Col. Leigh).

Number of specimens of Mollusca registered: Cephalopoda, 804; Gastropoda, 1,325; Lamellibranchia, 1,517.

Arthropoda (Gallery 8 and Workroom).—The foreign Silurian, Devonian, and Carboniferous Trilobites have been removed to new cabinets in the Workroom, where the whole of the study series of Trilobites is now placed, occupying 178 drawers. The Cirripedia have also been removed from the drawers in the Gallery to those in the Workroom, and the Insecta have been transferred to the drawers of a new upright case in the Gallery. The cubes thus set free have been allotted to the growing collection of Brachiopoda.

The collections registered and incorporated during the year include an additional series of insects in amber, transferred from the Zoological Department; 229 Cambrian and Ordovician Trilobites from Oeland (Bather collection); and Miocene Insects from Florissant (Cocke collection). Progress has also been made in registering the Brodie Collection of Fossil Insects.

Among the more interesting additions to the exhibited series are the type-specimen of *Ranina granulosa*, and the unique *Lithomantis carbonarius*. A remarkable series of insects from Florissant, including many types and figured specimens, has been placed in a special case near the entrance to the Gallery, to form part of a special temporary exhibit, illustrating the Fauna and Flora of this Miocene lake-basin.

Number of specimens of Arthropoda registered, 1,836.

Annelida (Gallery 8).—The large number of specimens sorted, labelled, registered, and incorporated, includes series

from the Upper Cretaceous of Norfolk (Brydone collection), Kent, Oxfordshire, Rügen (Laur collection), Russia and Lebanon (Gollmer collection); the Bathonian of Gloucestershire (Slatter collection); the Lias of New Zealand; the Carboniferous of Dumfries (McPherson collection); the Silurian of Shropshire and Herefordshire (Piper collection); and the Ordovician and Cambrian of Oeland.

Number of specimens of Annelida registered, 3,101.

Polyzoa (Gallery 8 and Workroom).—Progress has been made in the arrangement of the drawers of unexhibited Polyzoa in the cabinets which have now been fixed in the Workroom.

Number of specimens of Polyzoa registered, 1,874.

Brachiopoda (Gallery 8).—The unexhibited general collection of Brachiopoda in drawers has been re-arranged on the same plan as the unexhibited collection of Mollusca, and a list of the contents of the cabinets has been prepared. A slip catalogue of the type and figured specimens is in progress.

Among the collections registered, labelled, and incorporated during the year are the following:—Recent species from R. F. Damon; the Caroline Birley bequest of miscellaneous specimens; the Vicary bequest of Brachiopods from Budleigh Salterton (Ordovician), and from the Devonian and Cretaceous formations; British and Foreign Palæozoic Brachiopods from the G. H. Morton collection; Devonian Brachiopods from North Devon, from the R. H. Valpy collection; Lower Palæozoic Brachiopods from Sweden, collected and presented by Dr. F. A. Bather; a large series from the Trias of Bosnia, collected by V. Hawelka; and numerous Jurassic species from the J. F. Blake collection.

Number of specimens of Brachiopoda registered, 11,633.

Echinoderma (Gallery 8).—The following are the chief recent accessions that have been registered, labelled, and incorporated:—Eocene Asteroidea from Hampstead Well (Wetherell collection); Cretaceous Echinoidea, Asteroidea, and Crinoidea from Norfolk (Brydone collection), Oxfordshire (Chatwin and Withers collection), Vendôme (Filliozat collection), and Syria (Gollmer collection); Carboniferous Crinoidea from Clare (Douglas collection), and Yorkshire (Wilmore collection); Cystidea and Crinoidea from the Ordovician and Cambrian of Oeland (Bather collection). Various specimens from the Klipstein, Lee, Prestwich, and Slatter collections have also been studied and registered when necessary.

The exhibited series of British Cretaceous Ophiuroidea has been entirely re-arranged and re-labelled in accordance with recent work. A similar re-arrangement of the Cretaceous Asteroidea is in progress.

Number of specimens of Echinoderma registered: Echinoidea, 280; Asteroidea and Ophiuroidea, 252; Crinoidea, 361; Cystidea, 575. Total, 1,468.

Anthozoa (Gallery 10).—Progress has been made with the labelling and arrangement of the exhibited collection of Jurassic corals.

A large block of *Lithostrotion* has been mounted and exhibited on a separate stand between wall-cases 3, 4.

Number of specimens of *Anthozoa* registered, 408.

Hydrozoa, Porifera, and Protozoa (Gallery 10).—The unexhibited collection of Foraminifera has been revised, labelled, and conveniently arranged in the drawers of table-case 16.

A collection of Graptolites from New Zealand has been registered, labelled, and incorporated.

Number of specimens registered, 6,027.

Plantæ (Gallery 10).—Recent acquisitions have been labelled and incorporated in the collection.

An alphabetical reference list of the named genera and species in the unexhibited collection in drawers has been made.

A temporary exhibition of Miocene plants and insects from Florissant, Colorado, has been arranged and labelled in a small table-case.

The Arctic Tertiary plants from Greenland, described by O. Heer, have been arranged and labelled in drawers, and a small selection has been mounted for exhibition in wall-case 10.

Number of specimens of *Plantæ* registered, 251.

Tracks, and Rock-Specimens (Gallery 11).—Several small additions have been made to the exhibited collection illustrating Dynamical Geology, and a piece of faulted-slate has been mounted on the wall between wall-cases 5, 6.

Number of specimens registered, 32.

Miscellaneous.—The large collections of fossil remains of Vertebrata in the inner basement store-rooms have been cleaned, examined, indexed and more conveniently arranged for reference.

Numerous bulky specimens and large masses of fossiliferous rock that had accumulated in the store-rooms have been sorted, labelled, and either incorporated or placed with the duplicates available for exchange and donation.

The moulds of fossils have been cleaned and removed to a large new store-room, where they are now well arranged and readily accessible.

II.—*Mounting, etc.*

Reproductions in plaster of the skull and mandible, pelvis, and some limb-bones of *Arsinoitherium* have been made for incorporation in a complete model of the skeleton of this Egyptian Eocene Mammal.

Reptilian remains from the Karoo Formation of South Africa have been extracted from the hard matrix.

Dinosaurian bones from the Greensand and Wealden of England, and from the Cretaceous of North America, have been prepared for study and exhibition.

A model of the fore limb of *Cetiosaurus oxoniensis* has been mounted on ironwork for exhibition.

Fishes from the Chalk of Kansas and fish-remains from the English Chalk have been prepared for study and exhibition.

Microscope-sections of Jurassic corals have been prepared.

All recent acquisitions, so far as possible, have been trimmed and reduced to a convenient size before incorporation.

Numerous plaster casts have been made both for the Museum and for exchange; and various specimens have been repaired for the Department of Zoology.

III.—*Printing of Labels.*

The Museum Printer continues to devote one day each week to the preparation of labels for the Department of Geology; but an Attendant in the Department composes and prints most of the labels, and has this year prepared upwards of 1,222 (and 9,174 prints of these).

IV.—*Exchanges and Duplicates.*

Exchanges of plaster casts and duplicate fossils have been made with the following institutions:—Royal Scottish Museum, Edinburgh; University Museum, Oxford; National Museum of Natural History, Paris; University Geological Museum, Lund; American Museum of Natural History, New York; and National Museum, Buenos Aires. Small exchanges have also been made with Monsieur A. de Grossouvre, Prof. Jules Welsch, Dr. H. P. Blackmore, Dr. A. W. Rowe, Miss Evelyn Irby, and Miss C. H. Mona Briggs.

Duplicate fossils have been presented to University College, London, the Royal Institution of Cornwall, and the Museums of Manchester and Leicester.

Small duplicates and plaster casts for purposes of research have been supplied to Mrs. Shakespear, Prof. J. Joly, Prof. R. J. Strutt, Mr. James Lomax, Dr. H. F. Standing, Mr. G. Vincent, Mr. A. Toucas, Hon. C. D. Walcott, and Dr. W. Petrascheck.

V.—*Departmental Library.*

The additions to the Library, which have been registered, stamped, catalogued, and press-marked, comprise 241 new works and pamphlets, of which 110 were purchased and 131 presented; 557 parts of serials in progress, of which 236 parts were purchased and 321 presented; 169 maps, of which

22 were purchased and 147 presented. 9 volumes and 1 map were obtained by transfer from other Departments. 176 volumes were bound. 2,003 visitors used the Library.

VI.—*Publications.*

A Guide Book to Elephants, Recent and Fossil, has been written and published.

The MSS. of the Catalogues of Marine Reptiles of the Oxford Clay, Fossil Fishes (Supplement), and Cretaceous Bryozoa, have made progress. The printing of the Catalogues of Marine Reptiles and Cretaceous Bryozoa has been begun.

Apart from the official publications issued by the Trustees, various descriptive papers dealing with different parts of the collection, chiefly recent acquisitions, have been contributed to scientific journals :—

By Dr. Woodward.

1. Note on *Dinodocus mackesoni*, a Cetiosaurian from the Lower Greensand of Kent. Geol. Mag. [5], vol. v., pp. 204-206.

2. On some Fossil Reptilian Bones from the State of Rio Grande do Sul, Brazil. Rev. Mus. Paulista, vol. vii., pp. 46-57, and Geol. Mag. [5], vol. v., pp. 251-255.

3. Note on a Megalosaurian Tibia from the Lower Lias of Wilmcote, Warwickshire. Ann. Mag. Nat. Hist. [8], vol. i., pp. 257-259.

4. On some Fossil Fishes discovered by Prof. Ennes de Souza in the Cretaceous Formation at Ilhéos (State of Bahia), Brazil. Quart. Journ. Geol. Soc., vol. lxiv., pp. 358-362, pls. xlii., xliii.

5. The Fossil Fishes of the English Chalk, Part iv. Mon. Pal. Soc.

6. The Fossil Fishes of the Hawkesbury Series at St. Peter's. Mem. Geol. Surv., N. S. Wales, no. 10.

7. On some Fish-remains from the Lameta Beds at Dongargaon, Central Provinces. Palæont. Indica, n.s., vol. iii., Mem. no. 3.

By Dr. Bather.

1. *Ptilocrinus antarcticus*, n. sp., a Crinoid dredged by the Belgian Antarctic Expedition. Bull. Acad. Roy. Belg., 1908, pp. 296-299.

2. *Schizoblastus*. Neues Jahrb. Mineral., Beil.-bd. xxv, pp. 303-319, pl. x.

3. The Echinoid name *Cidaris* and its modern application. Ann. Mag. Nat. Hist. [8], vol. i., pp. 284-288.

4. The Genotype of *Cidaris*. Op. cit., vol. ii., pp. 134-136.

5. Studies in Edrioasteroidea, iii. *Lebetodiscus*, n. g., for *Agelacrinites dicksoni*, Billings. Geol. Mag. [5], vol. v., pp. 543-550, pl. xxv.

6. The Preparation and Preservation of Fossils. *Museums Journal*, vol. viii., pp. 76-90.

7. Nathorst's methods of studying cutinised portions of Fossil Plants. *Geol. Mag.* [5], vol. v., pp. 454-459.

By R. B. Newton.

1. Fossil Pearl-growths. *Proc. Malac. Soc.*, vol. viii., pp. 128-139, pls. iv., v.

By R. B. Newton and G. C. Crick.

1. On some Jurassic Mollusca from Arabia. *Ann. Mag. Nat. Hist.* [8], vol. ii., pp. 1-29, pls. i.-iii.

By C. W. Andrews.

1. Note on a Model of the Skull and Mandible of *Prozeuglodon atrox*. *Geol. Mag.* [5], vol. v., pp. 209-212, pl. ix.

By W. D. Lang.

1. Polyzoa and Anthozoa from the Upper Cretaceous Limestone of Need's Camp, Buffalo River. *Ann. S. African Mus.*, vol. vii., pp. 1-11, pl. i.

By C. I. Forsyth Major.

1. A Giant Sub-Fossil Rat from Madagascar, *Myoryctes rapeto*. *Geol. Mag.* [5], vol. v., pp. 97, 98.

By H. G. Seeley.

1. On the Extremity of the Tail in *Ichthyosaurus*. *Ann. Mag. Nat. Hist.* [8], vol. i., pp. 436-441.

By Baron F. von Huene.

1. On Phytosaurian Remains from the Magnesian Conglomerate of Bristol. *Ann. Mag. Nat. Hist.* [8], vol. i., pp. 228-230, pl. vi.

By E. Thurlow Leeds.

1. On *Metriorhynchus brachyrhynchus* (Deslong.), from the Oxford Clay near Peterborough. *Quart. Journ. Geol. Soc.*, vol. lxiv., pp. 345-356, pls. xl., xli.

By Henry Woodward.

1. Some Coal-Measure Crustaceans with modern representatives. *Geol. Mag.* [5], vol. v., pp. 385-396.

2. On a large Cirripede belonging to the genus *Loricula*, from the Middle Chalk (Turonian), Cuxton, near Rochester, Kent. *Loc. cit.* pp. 491-499.

By E. S. Goodrich.

1. On the Scales of Fish, Living and Extinct, and their importance in Classification. Proc. Zool. Soc. 1907 (1908), pp. 751-774, pls. xliii.-xlvi.

By Mrs. E. M. Shakespear.

1. On some New Zealand Graptolites. Geol. Mag. [5], vol. v., pp. 145-148.

By S. S. Buckman.

1. Brachiopod Nomenclature. The Terebratulæ of the Crag. Ann. Mag. Nat. Hist. [8], vol. i., pp. 444-447.

By R. G. Carruthers.

1. A Revision of some Carboniferous Corals. Geol. Mag. [5], vol. v., pp. 20-31, 63-74, 158-171, pls. iv., v., vi.

By L. V. Dalton.

1. Notes on the Geology of Burma. Quart. Journ. Geol. Soc., vol. xiv., pp. 604-643, pls. liv.-lvii.

Various fossils in the Department of Geology have also been described and figured by Mr. H. Woods, Mr. P. Lake, Mrs. Shakespear and Miss Elles, in the Monographs of the Palæontographical Society, vol. lxii. for 1908.

VII.—*Acquisitions.*

A.—*By Donation.*

Mammalia.—Eight portions of jaws and teeth of Marsupials (*Macropus*, *Nototherium*, *Diprotodon*, *Phascolonus*) from the Pleistocene river-deposits of Darling Downs, Queensland. Presented by George F. Bennett, Esq.

Four photographs, taken by Mrs. E. M. von Kaufmann, of portions of carcasses of a Mammoth and a Rhinoceros found preserved in a Pleistocene deposit, saturated with petroleum, at Starunia, Galicia, 1907. Also a portion of the skin and a rib-fragment of the Mammoth and a portion of the horn of the Rhinoceros photographed. Presented by Dr. George von Kaufmann.

A milk-molar of a Mammoth, a portion of mandibular ramus of young Cave-hyæna, and two hammer-stones, from Creswell Caves. Presented by Rev. J. Magens Mello, M.A., F.G.S.

Twelve plaster casts of Proboscidean molars from the *Pithecanthropus*-beds of Trinil, Java. Presented by the Geological Institute of the University of Berlin.

Reptilia and Amphibia.—A portion of skeleton of *Lyso-rophus*, from the Permian of Texas. Presented by Prof. S. W. Williston, M.D.

A rib of *Nothosaurus* from the Muschelkalk of Jena. Presented by Prof. Dr. G. Linck.

A portion of a Reptilian bone (showing Zinc Blende), apparently Rhaetic, found in a railway cutting near Henbury, Bristol. Presented by Spencer G. Perceval, Esq.

Six portions of Labyrinthodont jaws, collected by the donor from the Rhaetic Bone-bed, Aust Cliff, near Bristol. Presented by Montagu Browne, Esq.

Portions of jaws of *Ichthyosaurus* from the Cretaceous, near Hughenden, Queensland. Presented by George F. Bennett, Esq.

Pisces.—Ten Fish-remains from the Carboniferous Limestone of Kelhead, Dumfriesshire. Presented by William McPherson, Esq.

Two teeth of *Psammodus rugosus*, and three of *Psephodus magnus*, from the Upper Carboniferous Limestone of Sparrow-pit, Castleton, Derbyshire. Presented by J. Wilfrid Jackson, Esq., and R. Cairns, Esq.

One skull of *Saurichthys* from the Muschelkalk. Presented by Prof. Dr. G. Linck.

Three specimens of *Semionotus capensis* from the Stormberg Beds, Orange River Colony. Presented by W. Sneyd, Esq.

Two specimens of *Mesodon* sp. from the Purbeck Beds of Swanage. Presented by F. Hovenden, Esq.

A Pycnodont tooth from the Jurassic of Ankilahila, N.W. Madagascar. Presented by H. T. Burls, Esq.

Twenty-three species of Otoliths of fishes from the Miocene of Austria-Hungary. Presented by Col. C. E. Shepherd.

Mollusca.—Two Cephalopods, six Gastropods, and nine Lamellibranchs from the Lower Palæozoic rocks of Canada. Presented by Col. C. C. Grant.

Thirteen Cephalopoda, ten Gastropoda and six Lamellibranchs from the Carboniferous Limestone of Kelhead, Dumfriesshire. Presented by William McPherson, Esq.

Four Gastropods and three Lamellibranchs from the Carboniferous Limestone of Thornton-in-Craven, Yorkshire. Presented by Albert Wilmore, Esq.

One *Glyphioceras spirale* from the Culm of Waddon Barton, near Chudleigh, Devon. Obtained and presented by C. Davies Sherborn, Esq.

An Ammonite and a Belemnite from the Lower Tarn Thal, Tyrol, collected by the donor and noticed in his paper in the Quart. Journ. Geol. Soc., 1908. Presented by A. P. Young, Esq., PH.D.

Two specimens of a Cephalopod, *Belemnites palliatus*, from the Lower Pliensbachian, south side of Robin Hood Bay, Yorkshire. Presented by W. Murton Holmes, Esq.

Two Ammonites from the Cornbrash of Rushden, one being the type specimen of *Macrocephalites hudlestoni*, J. F. Blake, Mon. Fauna of the Cornbrash, Pal. Soc., 1904, p. 47, pl. iv., fig. 3. Presented by W. H. Hudleston, Esq., F.R.S.

Eight Cephalopoda, seven Gastropoda, and fifteen Lamellibranchia from the Jurassic rocks of Arabia, collected by the donor and described by Messrs. Newton and Crick, Ann. Mag. Nat. Hist., July 1908. Presented by Major H. S. Hazelgrove.

One Gastropod and two Lamellibranchs from the Jurassic of Ankilahila, N.W. Madagascar. Presented by H. T. Burls, Esq.

Eight Gastropods and three Lamellibranchs from the Sequanian of Cordebugle, Calvados, France. Collected and presented by Dr. F. A. Bather.

Eight *Trigonia* and one *Cerithium* from the Portland Oolite of Towersey, Thame, Oxon. Presented by Mr. T. H. Withers.

Six Lamellibranchs from the Lower Cretaceous of Sandown Bay, Isle of Wight. Presented by Lieut.-Col. Worthington Wilmer.

Two Cephalopods (*Heteroceras* and *Pachydiscus*) from the Chalk of England. Presented by Messrs. C. P. Chatwin and T. H. Withers.

Fragment of shale containing the supposed beak of a Cephalopod from the "Black Band" in the *Actinocamax plenus* zone in the Chalk of South Ferriby, North Lincolnshire. Presented by Thomas Sheppard, Esq.

A specimen of *Actinocamax verus*, obtained by the donor from the *Uintacrinus*-Chalk of Dover. Presented by the late General C. F. Cockburn.

A specimen of *Heteroceras* from *Holaster planus* zone of the Chalk of North Ormsby, Lincolnshire. Presented by Rev. C. R. Bower.

One *Belemnitella* from the Chalk of Glenariff, Co. Antrim, Ireland. Presented by James Francis, Esq.

An Ammonite and a Nautilus from the upper part of the Middle Chalk in Weekes and Trechmann's Pit, Halling, Kent. Also the impression of a large *Inoceramus* in flint from the Drift at Halling. Presented by J. G. Wilson, Esq.

A specimen of *Inoceramus digitatus* from the *Micraster coranguinum* zone of the Chalk of Snowdown Colliery, Nonington, Dover, from 40 ft. below the surface. Presented by Malcolm Burr, Esq.

Microscope-section of pearl-structure from an *Inoceramus* from the Upper Chalk, Northfleet, Kent; descr. and figd. by R. B. Newton, Proc. Malac. Soc. London, vol. viii (1908), p. 136, pl. v, figs. 4, 5. Presented by B. B. Woodward, Esq.

Two *Ostrea* from the Upper Cretaceous of Batra, Algeria. Presented by Dr. P. L. Sclater, F.R.S.

Three Lamellibranchs from the Chalk of Trimmingham, Norfolk. Presented by R. M. Brydone, Esq.

A natural cast of *Naticina* from the Chalk Rock, Cuckhamsley, Berks. Obtained and presented by C. Davies Sherborn, Esq.

A specimen of *Hipponyx blackmorei* from the Chalk (*Holaster planus* zone) of Boswell, near Louth. Presented by J. R. Farmery, Esq.

One Cephalopod, twenty-four Gastropods, and thirteen Lamellibranchs from the Upper Cretaceous and Eocene from between the Punjab and British Baluchistan. Presented by Lieut.-Col. H. P. P. Leigh.

Thirteen Tertiary shells from Japan. Presented by B. B. Woodward, Esq.

Sarmatian (Miocene) Limestone from Korecz, Volhynia, containing marine shells (*Maetra podolica*, *Tapes gregaria*, *Trochus podolicus*, etc.). Presented by Count J. Potocki.

Six Gastropods and seven Lamellibranchs from Mio-Pliocene deposits, Peninsula of Araya, Venezuela. Presented by Hugo Pam, Esq.

Forty-five freshwater Gastropoda and Lamellibranchs from the Post-Pliocene of N.W. India, 50 miles W. of Rawal Pindi. Presented by C. H. J. Whitehead, Esq.

Seven Terrestrial Gastropods (*Helix* and *Pomatias*) from Post-Pliocene deposits, Las Palmas, Canaries. Presented by H. D. Acland, Esq.

Land-shells found with Mammoth remains, in the Pleistocene at Starunia, Galicia. Presented by Dr. George von Kaufmann.

A collection of lacustrine Gastropod shells from Grosswardein, Hungary, arranged to illustrate their development and evolution; apparently referred to by the late Prof. Brusina, "Eine subtropische Oasis in Ungarn," Mitth. naturwiss. Ver. Steiermark, 1902 (1903), pp. 101-121. Presented by Mrs. N. Charles Rothschild.

A mass of stalagmitic earth from Admiral's Cave, Bermuda, containing shells of the Gastropod *Poecilozonites nelsoni*. Presented by G. A. Outerbridge, Esq., per Major A. J. Peile, R.A.

Arthropoda.—A plaster cast of a trilobite, *Strenuella strenua*, from the Lower Cambrian slates of Mill Cove, North Weymouth, Mass. The original in the Museum of the Boston Soc. Nat. Hist. (No. 12978), described by the donor in the Amer. Journ. Sci. [4] vol. xxiii. (1907), pp. 199-201. Presented by Dr. H. W. Shimer.

A pleuron of a Trilobite (*Olenellus*) from the Lower Cambrian, N.N.E. of Skiag Brigg, Loch Assynt, N.B. Presented by C. Davies Sherborn, Esq.

Two specimens of *Pterygotus anglicus* on a slab in counterpart, from the Lower Old Red Sandstone of Carmyllie Quarries, Forfarshire. Presented by Archibald W. R. Don, Esq.

A specimen in counterpart of *Praeanaspides præcursor*, a Crustacean, in a Coal-measure nodule, Shipley Hall Estate, near Ilkeston, Yorkshire, described and figured by H. Woodward, Geol. Mag., Sept. 1908, p. 386, fig. 3. Presented by the Rev. C. Hinscliff.

The type-specimen of *Lithomantis carbonarius*, a Neuropterous Insect in a Coal-measure nodule found by the donor on the coast near Ayr. Described and figured by H. Woodward, Quart. Journ. Geol. Soc., vol. xxxii., 1876, p. 60, pl. ix. Presented by Miss C. H. Mona Briggs.

Beetles found with Mammoth-remains, from the Pleistocene of Starunia, Galicia. Presented by Dr. George von Kaufmann.

Echinoderma. — *Echinosphærites* from the Ordovician, Craig-y-Glyn, 3 m. E. of Llanrhaidr. Presented by Upfield Green, Esq.

A Crinoid from the Devonian of Santa Lucia, Léon, Spain. Presented by Dr. A. S. Woodward.

Five Crinoid stems from the Carboniferous Limestone of Kelhead, Dumfriesshire. Presented by William McPherson, Esq.

Forty-five Crinoid and ten Echinoid remains from the Carboniferous Limestone of Thornton-in-Craven, Yorkshire. Presented by Albert Wilmore, Esq.

Eleven remains of Crinoids from the Carboniferous Limestone of County Clare, Ireland. Presented by J. A. Douglas, Esq.

Specimen of *Millericrinus pratti* from Miserden, Gloucestershire, figured by P. H. Carpenter, Quart. Journ. Geol. Soc., vol. xxxviii. (1882), p. 1, fig. 9. Presented by Mrs. J. F. Walker.

One *Encrinurus carnalli* from the Muschelkalk. Presented by Prof. Dr. G. Linck.

One hundred and fifteen remains of *Isocrinus* from the Lias of Wincombe Tunnel, Cheltenham. Presented by Miss Caroline Shuckburgh.

Three Echinoderms (*Holaster*, *Micraster*, and *Isocrinus*) from the English Chalk. Presented by Messrs. C. F. Chatwin and T. H. Withers.

Eighteen ossicles of Asteroidea (*Pycinaster*, *Metopaster*) and a hundred and five ossicles of Crinoidea (*Marsupites*, *Isocrinus*, and *Bourgeticrinus*), collected by the donor in the *Marsupites*-zone in the Chalk near Vendôme. Presented by Monsieur Marius Filliozat.

One *Echinocorys* and one *Offaster* from the Chalk of Glenariff, Co. Antrim, Ireland. Presented by James Francis, Esq.

Eight Echinoderms (*Conulus* and *Isocrinus*) from the Chalk of Trimmingham, Norfolk. Presented by R. M. Brydone, Esq.

Three *Hemiaster* from the Upper Cretaceous of Batna, Algeria. Presented by Dr. P. L. Selater, F.R.S.

An Echinoid from Cretaceo-Eocene beds between the Punjab and British Baluchistan. Presented by Lieut.-Col. H. P. P. Leigh.

Brachiopoda.—Two Brachiopods from the Lower Palæozoic rocks of Canada. Presented by Col. C. C. Grant.

Brachiopods from the Llandovery Formation, Tortworth, Gloucestershire. Presented by Prof. S. H. Reynolds.

Two Brachiopods from the Llandeilo Flags, Llandrindod. Also fourteen Brachiopods from the Devonian of Santa Lucia, Léon, Spain. Presented by Dr. A. S. Woodward.

Three Brachiopods from the Carboniferous Limestone of Thornton-in-Craven, Yorkshire. Presented by Albert Wilmore, Esq.

Three specimens of *Productus* from the Carboniferous Limestone of Holy Island, Northumberland. Presented by Mrs. Vignoles Fisher.

Seven Brachiopoda from the Carboniferous Limestone of Kelhead, Dumfriesshire. Presented by William McPherson, Esq.

Six Brachiopoda from the Chalk of Trimmingham, Norfolk. Presented by R. M. Brydone, Esq.

Annelida.—Thirteen Annelida from the Carboniferous Limestone of Kelhead, Dumfriesshire. Presented by William McPherson, Esq.

Five specimens of *Torlessia mackayi* from the Liassic (?) rocks of Ashley Gorge, N. Zealand. Presented by A. Hamilton, Esq.

A *Serpula* from the Coral Rag, Headington, Oxfordshire. Presented by W. P. Pycraft, Esq.

A *Serpula fluctuata* from the Upper Chalk, Oxfordshire; noticed in Mem. Geol. Surv., Expl. Sheet 254 (1908). Presented by Messrs. C. P. Chatwin and T. H. Withers.

Three specimens of casts of worm-tubes known as "Worms of Job," probably Cretaceous, from the Moslem pilgrim road, E. Moab. Presented by Dr. F. Johnson.

Eight Serpulæ from the Chalk of Trimmingham, Norfolk. Presented by R. M. Brydone, Esq.

Polyzoa.—Seven Polyzoa from the Lower Palæozoic rocks of Canada. Presented by Col. C. C. Grant.

Two Polyzoa from the Devonian of Santa Lucia, Léon, Spain. Presented by Dr. A. S. Woodward.

A specimen of *Stenopora columnaris* from the Zechstein. Presented by Prof. Dr. G. Linck.

Two Polyzoa from the Chalk and Lower Greensand of Surrey. Presented by H. D. Schloss, Esq.

Two Polyzoa, *Reptoceritites rowei*, from the English Chalk. Presented by Messrs. C. P. Chatwin and T. H. Withers.

Four Polyzoa from the Upper Chalk of Oxfordshire; noticed in Mem. Geol. Surv., Expl. Sheet 254 (1908). Presented by Messrs. C. P. Chatwin and T. H. Withers.

Polyzoa from the Middle Eocene, Grignon, Paris Basin. Presented by Miss M. S. Johnston.

Coelentera.—Four corals from the Lower Palæozoic rocks of Canada. Presented by Col. C. C. Grant.

Corals from the Llandovery of Tortworth, Gloucestershire. Presented by Prof. S. H. Reynolds.

Petraia from the Llandovery, Damerg Bridge, near Tortworth. Presented by Upfield Green, Esq.

A polished section of *Halysites* from the Wenlock of Malvern. Presented by Miss Shuckburgh.

Graptolites from Cisñera, Léon, Spain. Also five Corals from the Devonian of Santa Lucia, Léon, Spain. Presented by Dr. A. S. Woodward.

Eighteen corals from the Carboniferous Limestone of Kelhead, Dumfriesshire. Presented by William McPherson, Esq.

Five corals from the Carboniferous Limestone of Thornton-in-Craven, Yorkshire. Presented by Albert Wilmore, Esq.

One *Cyathophyllia oolitica* from the Aalenian of Huddingknoll, Painswick, Gloucestershire. Presented by Miss H. Mary Hutton.

One *Thamnastraea* from the Great Oolite, near Bicester. Presented by Ll. Treacher, Esq.

Two *Montlivaltia* from the Chilian Andes. Presented by Miss Copland.

A coral, probably Jurassic, from the Drift, near Rugby. Presented by H. D. Schloss, Esq.

A coral from the Lower Greensand of Sandown Bay, I. of Wight. Presented by Lieut.-Col. Worthington Wilmer.

Two *Parasmilia* from the Chalk Rock, Marlow. Presented by Messrs. C. P. Chatwin and T. H. Withers.

A hundred and thirty-five corals, &c. from the Cretaceous-Eocene between the Punjab and British Baluchistan. Presented by Lieut.-Col. H. P. P. Leigh.

Five fossil corals from Pleistocene masses embedded in sand about half a mile inland, North West Cape, West Australia. Presented by Captain J. W. Combe, R.N.

Porifera.—Sponge spicules from flint-meal from the *Micraster coranguinum* zone of the Chalk of Path Hill, E. of Whitchurch, Oxfordshire. Presented by Messrs. C. P. Chatwin and T. H. Withers.

A large branched specimen of *Doryderma roemeri* from the Chalk of Widnall Wood, Little Hampden, Bucks. Presented by R. W. Pocock, Esq.

Protozoa.—One piece of Radiolarian Chert, found by the donor in the Culm of Christow Down, Teign Valley, Devon. Presented by C. Davies Sherborn, Esq.

A piece of Radiolarian Chert from the Culm Measures, Woodah Quarry, near Exeter. Presented by Upfield Green, Esq.

Two hundred and sixty-six microzoa, chiefly Foraminifera, from the Middle Lias of Radstock; seventy from the Upper Lias of Ilminster; a hundred and sixty-seven from the Fuller's Earth of Midford; three hundred Foraminifera from the Gault of Dunton Green, Kent. Presented by F. Möckler, Esq.

Foraminifera from flint meal from the *Micraster coranguinum* zone of the Chalk of Path Hill, E. of Whitchurch, Oxfordshire. Presented by Messrs. C. P. Chatwin and T. H. Withers.

A piece of Nummulitic Limestone from Teke, 2 m. S. of Kesban, Turkey. Presented by Lieut.-Col. Thomas English.

Sixty-eight slides of Foraminifera and Polyzoa, from the Middle Eocene of Grignon, Paris. Presented by Miss M. S. Johnston.

Various Invertebrata.—About three hundred fossils from the London Clay of Hampstead, collected by the late Mr. N. T. Wetherell, and partly used in his paper in *Trans. Geol. Soc.*, ser. 2, vol. v., pp. 131-136. Presented by George Potter, Esq.

Plantæ.—A plaster cast of the fruit of *Goniolina geometrica*, from passage beds from Oxfordian to Corallian, near Poitiers, France. Original figd. by Saporta, *Paléont. Franc., Jurassique, Végétaux*, vol. iv., p. 219, pl. 256, now in Museum of Poitiers University. Presented by Prof. Jules Welsch.

Six specimens of *Spirangium (Palæoxyris)* from the Wealden (Upper Tunbridge Wells Sand) near Crabtree Village, Sussex. Presented by Dr. F. Du Cane Godman, F.R.S.

Fossil wood found on a heap of flints at Hackpen Hill, N. Wilts. Presented by the Rev. H. G. O. Kendall.

Four fossil leaves from the Mio-Pliocene deposits, Peninsula of Araya, Venezuela. Presented by Hugó Pam, Esq.

A piece of oak, found with Pleistocene Mammoth remains at Starunia, Galicia. Presented by Dr. George von Kaufman.

A bottle of Diatomaceous earth from the Clairments, Jamaica. Presented by A. W. F. Fuller, Esq.

A piece of fossil wood from the Paramai Mine, Thames goldfield, New Zealand. Presented by F. Louis Armitage, Esq.

Rock Specimens.—A wind-worn pebble from the Torridon Sandstone of Canisp, Sutherland; also a piece of *Olenellus* bed resting on Fucoid-bed from the Lower Cambrian, Loch Assynt, Sutherland. Collected and presented by C. Davies Sherborn, Esq.

A slab of faulted slate from the Borrowdale series, Coniston. Presented by Harry Muller, Esq.

A piece of track (*Crossopodia embletonia*, G. Tate) from the Coal Measures, Polbree Burn, Kirkconnel. Presented by J. Smith, Esq.

Spongia paradoxica from the Red Chalk, Hunstanton; disintegrated flint pebble from Stanstead, Kent; striated ironstone from Boulder Clay. Presented by L. Hemington Pegler, Esq., M.D.

A geode of Jasper Agate, weathered by soil action, from near Kingsweston House, S.W. Gloucestershire. Presented by Spencer George Perceval, Esq.

B.—By Purchase.

Mammalia.—A plaster cast of a fossil human skull from Gibraltar, the original in the Royal College of Surgeons.

Ninety-three skulls and limb-bones of extinct Lemurs from a swamp, Ampàsambazimba, Madagascar; and thirteen plaster casts of the type specimens of extinct Lemurs from the same swamp. Standing Collection.

Two mandibles of *Lophiotherium cervulum*, four jaws of *Plagiolophus annectens* and one mandible of *Adapis*, from the Eocene of Euzet, Gard, France.

A Sirenian tooth from the Pliocene of Cotentin, France.

A model of the skull and mandible of *Prozeuglodon atrox*, from the Eocene of the Fayum, Egypt.

Eight mammalian limb-bones from the Phosphorites, France.

Aves.—Portion of metatarsus of a bird from the London Clay, Sheppey.

Reptilia.—Three plaster casts of *Aristodesmus ruetimeyeri* from the Bunter Sandstone, near Basle, Switzerland.

One hundred and seventy-five Plesiosaur bones; the pectoral girdle of *Cryptoclidus*; fifty-five vertebrae and bones of head of *Ophthalmosaurus*, two skulls of *Metriorhynchus*; head, vertebrae, pelvic bones, &c., of *Pliosaurus ferox*; and bones of a very young *Pliosaurus*; all from the Oxford Clay. Leeds Collection.

A crocodylian skull and two other reptilian fossils from the Purbeck Beds, Swanage.

One *Trionyx italicus*, from the Oligocene near Viale, N. Italy.

Three pelvic bones of tortoises from a swamp, Ampàsam bazimba, Madagascar.

Pisces.—Tail of *Dipterus* from the Old Red Sandstone, Caithness.

One *Drepanaspis gemuendenensis* and two fish-plates from the Upper Devonian, Gemuenden, Germany.

Specimens of *Astraspis*, *Eriptychius*, and *Macropetalichthys* from the Corniferous Limestone of New York, U.S.A.

Megalichthys from the Coal Measures, Airdrie.

Tooth of *Ceratodus* and two other teeth from the Rhaetic, Aust, Bristol.

Head of *Hypsocormus tenuirostris*, from the Oxford Clay, Whittlesea.

One fossil fish from the Portland Stone, near Weymouth.

One *Microdon bernardi* from the Lithographic Stone of Cirin, Ain, France.

Two *Clupea* and one *Thrissopterus* from the Neocomian, Comen, Istria.

Skeleton of *Anogmius* and skull of *Portheus* from the Chalk, Kansas. Sternberg Collection.

Nine fish-remains from the Chalk of Kent. Dibley Collection.

Three slabs of marl covered with skeletons of a Cyprinoid fish, from the Lower Pliocene of Teruel, Spain.

Fourteen sharks' teeth from the Pliocene of Cotentin, France.

Mollusca.—Two Cephalopods from the Carboniferous Limestone of Ireland.

Nine Mollusca from the Culm of Moravia and Upper Silesia.

Two hundred Mollusca, chiefly Cephalopoda, from the Trias, Bosnia. Hawelka Collection.

Mollusca from the Corallian of Valpin, Jura, and Cordebugle.

Eighteen Mollusca from the Portland Stone, near Weymouth.

Eleven Ammonites from the Albian of Hanover, described by Collet. Mem. Soc. Phys. and Nat. Hist., Geneva, vol. xxxv. fasc. 3 (1907), pp. 519–529, pl. viii.

Two Ammonites from the Chalk of Kent.

Seven Ammonites from the Cretaceous, France.

Ten opalised shells from the Cretaceous of White Cliffs, New South Wales.

Inoceramus koeneni, *I. cuneiformis*, and other species of *Inoceramus* from the Cretaceous of Europe; and thirteen specimens of *Inoceramus* from the Cretaceous of N. America.

Two hundred and ten species of Mollusca from the Lower Eocene (Thanetian) of France, collected and named by Monsieur L. Stadt.

Ostrea longirostris from the Miocene, Bordeaux.

Cancellaria scabra from the Pliocene of Piedmont.

Eleven land and fresh-water shells from the Lower Pliocene of Teruel, Spain.

Twenty-five Mollusca from the English Pliocene Crag.

Twenty-one Molluscs from the Miocene of Florissant, Colorado.

Arthropoda.—A specimen of *Xylobius* from the English Coal Measures.

A specimen of *Arthropleura* (?) from the Coal Measures, Horbury, Yorkshire.

Ranina granulosa from the Miocene of Bordeaux, and a crab from the Tertiary of the Paris Basin.

Twenty-four Insects and one Arachnid, including type and figured specimens, from the Miocene of Florissant, Colorado.

Fossil Insects from the Tertiary, Shiobara, Japan.

Echinoderma.—*Stromatocystis pentangularis* from the Cambrian of Ginetz, Bohemia.

Cupressocrinus from the Devonian, Eifel.

Five Crinoids from the Lower Carboniferous of Bundorran, Donegal.

Electrotypes of *Eocidaris* and *Pygurus*.

One Echinoid from the Cretaceous of France, and *Euspatangus* from the Miocene, Bordeaux.

Brachiopoda.—Nine Brachiopods from the Lower Carboniferous of Bundorran, Donegal.

Brachiopods from the Corallian of Valpin, Jura.

Polyzoa.—Two Polyzoa from the Lower Carboniferous of Bundorran, Donegal.

Coelentera.—*Monograptus sedgwicki* and other graptolites, from the Moffat district.

Two Silurian Corals of the Belcher Collection from Arctic America.

Three Corals from the Lower Carboniferous of Bundorran, Donegal.

Corals from the Corallian, Valpin, Jura.

One *Parasmilia* from the English Chalk.

Porifera.—A large slab of *Hydnoceras bathense*, containing many individuals, from the American Ordovician.

The type specimen of *Verrucocoelia tuberosa*, from the Chalk of the Thames Valley, near Goring.

Plantae.—A fossil plant from the Old Red Sandstone, Caithness.

Telangium affine from the Lower Carboniferous, Burdighouse.

Twenty micro-preparations and specimens from the Coal Measures of Lancashire.

Eighteen specimens of plants from the Culm of Moravia and Upper Silesia.

One *Megaphyton* from the Coal Measures, Derbyshire.

One *Stigmaria* from the Beddow Coal Pit, Beddow, Caerphilly.

Five pieces of opalised wood from the Upper Cretaceous of White Cliffs, New South Wales.

Plants from the Tertiary, Shiobara, Japan.

Sixty-four Plants (including type specimens) from the Miocene of Florissant, Colorado.

Rock Specimens.—A piece of phosphorite from Southern France.

C.—By Exchange:

A plaster cast of the skull and mandible of *Tetrabelodon angustidens*, from the Miocene of Sansan, France; original in the National Museum, Paris.

A series of plaster casts of Mammalian remains from the Tertiary and Pleistocene deposits of the Argentine Republic, of the genera *Diadiaphorus*, *Proterotherium*, *Tetramesorhinus*, *Onhippidium*, *Macrauchenia*, *Pararctotherium*, *Peltephilus*, *Trigodon*, *Ancylocoelus*, *Nesodon*, *Palæohoplophorus*, *Megathericulus*, *Colpodon*, *Pseudocoelosoma*, *Typotherium*, *Thomasohuxleya*, *Megamys*, *Smilodon*, *Noaditherium* and *Adinotherium*; originals in the National Museum, Buenos Aires.

Plaster casts of Dinosaurian bones from the Stonesfield Slate; originals in the Oxford Museum.

A plaster model of *Palæospondylus gunni*, from the Old Red Sandstone of Caithness, and models of parts of a Silurian Ophiuroid (*Lapworthura miltoni*) and Graptolite (*Monograptus*), made under the direction of Prof. W. J. Sollas, F.R.S.

A collection of fossil Invertebrata from the Upper Cretaceous of Southern Sweden; from the University of Lund.

Ammonites, Brachiopods, &c., from the Gault and Jurassic formations of France; from Monsieur A. de Grossouvre.

The total acquisitions are as follows:—

A.—VERTEBRATA :			
By Donation	-	-	81
„ Purchase	-	-	410
„ Exchange	-	-	43
			534
B.—INVERTEBRATA :			
By Donation	-	-	2,039
„ Purchase	-	-	2,861
„ Exchange	-	-	282
			5,182
C.—PLANTÆ :			
By Donation	-	-	14
„ Purchase	-	-	113
			127
D.—ROCK SPECIMENS :			
By Donation	-	-	7
„ Purchase	-	-	1
			8
TOTAL Acquisitions for 1908 =			5,851

VIII.—*Visitors and Students.*

The number of visits paid to the Department by students and other persons for the purpose of consultation or study during 1908 was 5,803.

IX.—*Lectures and Demonstrations.*

Ten parties were received in the Galleries of the Department of Geology, and demonstrations were given as follows:—

February 8th.—The Home Counties Archæological Society (23 members). Dr. Woodward.

March 21st.—The National Home Reading Union Circle of Kingston (10 members). Dr. Woodward.

March 28th.—The South London Entomological and Natural History Society (14 members). Dr. Woodward.

April 11th.—The Barnet Natural History Society and Field Club (30 members). Dr. Woodward.

May 27th.—The Vesey Club (22 members). Dr. Woodward.

June 16th.—Mrs. Morris K. Jessop and party. Dr. Woodward.

June 19th.—Haileybury School (16 members). Dr. Woodward.

August 31st.—Mr. Henry Blackman and 20 quarrymen from Battle, Sussex. Dr. Bather.

November 7th.—The Battersea Field Club (20 members). Dr. Woodward.

November 28th.—The Geologists' Association (23 members). Dr. Woodward.

Arthur Smith Woodward.

February 1st, 1909.

DEPARTMENT OF MINERALOGY.

Research.

During the past year the morphological, optical, and chemical investigation of specimens belonging to various species has been continued. In the Sulphide Division, a chemical examination has been made of seligmannite, a rare mineral from the Binnenthal, and its chemical composition has been for the first time determined. In the Haloid Division, a crystallographic, optical, and chemical examination has been made of schwartzembergite. The "light-figures" displayed by the crystals of this mineral were so complex that for their reproduction a new form of camera lucida had to be designed. In the Silicate Division, chemical investigations have been made of fuchsite from the Binnenthal, and of the extremely rare mineral guarinite, the result of the latter being to establish its specific identity with hiortdahlite.

The investigations of the new phosphates of zinc and other minerals from the Broken Hill mines of Rhodesia, and of the minerals strüverite and ilmenorutile, which were in progress last year, have been completed.

Crystallographic measurements have been incidentally made on various other species, including anglesite, barytes, beryl, carminite, chalybite, cotunnite, olivine, paralaurionite, pyromorphite, and zircon.

Microscopic examinations have been made of collections of rocks from Natal and Zululand, Persia, Sweden, and South America.

In the chemical laboratory, two quantitative analyses have been made of schwartzembergite, two of seligmannite, one of fuchsite, and three of rocks from Zululand, and many doubtful minerals have been qualitatively analysed.

Publications.

New editions of the Introduction to the Study of Minerals, the Introduction to the Study of Meteorites, the Student's Index, and the Guide to the Mineral Gallery, have been prepared and published; the preparation of a new edition of the Introduction to the Study of Rocks has been in hand.

Independent Publications.

Apart from the official publications issued by the trustees the following papers, relative to specimens in the collection, have been published during the year by members of the staff of the Department:—

On the possible existence of a nickel-iron constituent (Fe_5Ni_3) in both the meteoric iron of Youндеgin and the meteoric stone of Zomba: by L. Fletcher, M.A., F.R.S.

On Strüverite and its relations to Ilmenorutile: by G. T. Prior, M.A., D.Sc., F.G.S., and Dr. F. Zambonini.

On Hopeite and other Zinc phosphates and associated minerals from the Broken Hill mines, North-Western Rhodesia: by L. J. Spencer, M.A., F.G.S.

On Chlormanganokalite, a new Vesuvian mineral; with notes on some of the associated minerals: by Dr. H. J. Johnston-Lavis and L. J. Spencer, M.A., F.G.S.

Note on synthetical corundum and spinel: by G. F. Herbert Smith, M.A., D.Sc., F.G.S.

Demonstrations.

Demonstrations on the Collections have been given to the Polytechnic Natural History Society, the Jewellery Class of the Northampton Institute, Clerkenwell, and the Battersea Field Club.

Miscellaneous.

During the year the preparation of the slip-catalogues of the mineral specimens in the Collection has been continued. This work has been completed for the Arsenides and Sulphides (including the large series of iron-pyrites) as far as linnaeite, and for the whole of the Haloid Division (including the large series of fluor); a commencement has been made with the Oxide Division, and slips have been prepared for the species from cuprite to manganobrucite. The specimens of some of these species exhibited in the case-tops have been re-arranged on trays that have been re-polished and lined with fresh wool. In the course of this work a modified form of standard for the species-labels which does not interfere with the alignment of the trays was introduced; at the same time old specimens hitherto bearing numbers referring only to special catalogues have been entered in the general register, and permanent labels giving all available information have been written for each specimen.

Experiments have been made with a view to the improvement of the exhibition of the faceted gem-stones.

Those specimens of the collection of the late Miss Caroline Birley which were not required for the British Museum or the Manchester Museum have been sorted into seven lots and sent, on behalf of the Executors, to public museums in the neighbourhood of Manchester, Miss Birley's former home.

New locality-labels, species-labels and other labels have been printed, and have been distributed in the exhibition cases, and the necessary additions have been made in the alphabetical and topographical indices of localities. In connection with this work, samples of card for the labels were critically examined.

Seventy-five boxes of mineral-specimens have been received, unpacked and examined; one hundred and two boxes have been packed and despatched.

One hundred and fifty thin slices of rocks have been prepared, and two large meteorites have been cut.

Departmental Library.

To the Departmental Library have been added continuations of 31 periodicals (in 438 parts), 53 volumes of separate works, 43 pamphlets, 16 parts of works, 32 mining and survey reports and one map; of these, 8 periodicals (in 124 parts), 4 volumes and 6 parts of separate works, 33 pamphlets, and all the mining and survey reports, were acquired by presentation or transfer. All of them, including 601 plates, have been registered and stamped.

360 volumes have been transferred to the new cases in the basement corridor, and arranged.

All works of a topographical character have been placed in one main group and arranged in geographical order.

Students.

The number of visits recorded as made to the Department for the purposes of consultation or study is 987.

The Gallery being no longer reserved on particular days of the week for use by students, and study-series having been so arranged as to be directly accessible to the public, and so labelled as to render reference to the staff for information thereon almost completely unnecessary, it has become difficult to distinguish, for statistical purposes, "Students" of minerals from ordinary "Visitors," and stress can no longer be laid on the distinction.

Exchanges.

Exchanges of specimens have been made with Dr. Victor Patzelt of Brüx, Bohemia; the Mineralogical Institute of the University of Christiania, through Prof. W. C. Brögger; the Muséum d'Histoire Naturelle of Paris, through Prof. A. Lacroix; and with Sir William Crookes, F.R.S.

Accessions.

908 specimens have been acquired, namely:—

473 minerals, 427 rocks, and 8 meteorites. All of them have been registered, numbered, labelled, and incorporated with the Collection.

The more important of them are as follows:—

*Minerals.**By Presentation:*

A series of typical minerals from Portugal, including specimens of stibnite, riebeckite, galena (a group of large crystals), scorodite (violet crystals with ferberite) and stauroilite: by Señor Antonio Maria d'Oliveira Bello.

Heulandite from Meldon, Devonshire; pyromorphite from Lostwithiel, Cornwall: by Arthur Russell, Esq.

Two large polished blocks of agate, from Brazil: by the Hon. L. Walter Rothschild, M.P.

Corundum pebbles and samples of tin-ore from Perak : by Loke Chow Thye, Esq.

Synthetical rubies and spinels, a fine crystal of peridot from the Red Sea, and a series of faceted rubies from Siam showing range of colour : by E. Hopkins, Esq.

Two large and well-formed crystals of baddeleyite from Ceylon : by the Director of the Imperial Institute.

Wulfenite, a fine group of crystals, from Broken Hill, New South Wales : by C. Maitland, Esq.

Iron-pyrites, a large cube weighing 8 kilograms ($17\frac{3}{4}$ lb.), from British Columbia : by E. P. Gilman, Esq.

Orthoclase from Campolongo, St. Gotthard; apatite and beryl from German South-West Africa : by Prof. G. Linck.

Tetrahedrite from Schwaz, Tyrol : by Otto Meurer, Esq.

Kyanite and tourmaline from Abbottabad, India : by R. C. Duncan, Esq.

Diamond in garnet rock from Boshof, Orange River Colony : by Dr. G. S. Corstorphine.

A fine suite of cinnabar specimens from China : by H. Brelich, Esq.

Specimens of "banket," showing visible gold, from Transvaal : by J. L. T. Johnson, Esq.

Guarinite from Vesuvius : by Dr. F. Zambonini.

Specimens of banded jasper from Western Australia : by F. Fox, Esq.

Gold in quartz from Val d'Aosta, Piedmont : by the Directors of the Evançon Gold Mining Co.

Parahopeite from Broken Hill, Rhodesia : by J. M. Moubray, Esq.

Triplite from Singar, India : by the Director of the Geological Survey of India.

Witherite, in large crystals, from Northumberland : by J. P. Walton, Esq.

Beckelite, in mariupolite, from Sea of Azov : by Prof. J. Morozewicz.

A fine specimen of apophyllite with thomsonite, calcite, etc., lining a cavity in basalt, from the neighbourhood of Belfast, co. Antrim : by F. N. A. Fleischmann, Esq.

By Exchange :

Whewellite crystals, from Brüx, Bohemia, a new locality : from Dr. Victor Patzelt.

Large crystals of argyrodite from Bolivia, and specimens of ilmenorutile from Norway : from the Mineralogical Institute of the University of Christiania, through Prof. W. C. Brögger.

Specimens of wiikite containing scandium, from Impilaks, Finland : from Sir William Crookes, F.R.S.

A series of minerals from France and French Colonies including specimens of villiaumite from Los Islands, bityite, barkevikite, grandidierite, and tourmaline from Madagascar, axinite, friedelite, and rhodochrosite from Hautes Pyrénées, humite from Arignac, valentinite and hemimorphite from Algeria, and plancheite from French Congo: from the Muséum d'Histoire Naturelle, Paris, through Prof. A. Lacroix.

By Purchase:

A remarkable series of specimens from the United States including:—tourmaline and topaz in large crystals, diamond, uvarovite, gold in sharp crystals, benitoite with neptunite, from California; wolframite, greenockite, vivianite in fine crystals, and gold on galena and blende, from Colorado; montroydite with eglestonite and terlinguaite, from Texas; ruby in limestone, from New Jersey: topaz with phenacite, from New Hampshire; apatite in mauve crystals, from Maine; a large crystal of arkansite, from Arkansas; brilliant crystals of iron-pyrites, from Utah; a large specimen of aurichalcite, from New Mexico; and diopside, from Arizona.

Tetrahedrite, a group of fine crystals, from Botes, Transylvania.

Wulfenite in large brown and orange-red crystals, stephanite, and apophyllite in crystals rich in faces, from Mexico.

Specimens from the collection of the late Dr. W. T. Blanford, including:—cerussite, chabazite, and natrolite from Bohemia, tourmaline from Norway, and stilbite and heulandite from the Harz.

Arborescent crystals of silver coated with smaltite, from Cobalt, Ontario.

Crystals of cotunnite, tenorite, and sal-ammoniac, from the eruption of Mt. Vesuvius of 1906.

Remarkable crystals of tourmaline, and etched crystals of aquamarine from Brazil.

Star-sapphires, from Tasmania.

Epidote crystal showing idiophanic brushes, from Salzburg.

Fluor in pink crystals coating large crystals of smoky quartz, from Mont Blanc.

A twin-crystal of corundum, from Ceylon.

Fine twin-crystals of whewellite, from Saxony.

A remarkably large crystal of pollucite, from Elba.

A polished section of a large green-and-red banded crystal of tourmaline, from Madagascar.

Native iron in basalt, from Hesse.

Fine specimens of "black opal" and hydrophane, from Queensland.

A magnificent group of large crystals of aragonite, from Sicily.

A fine, etched crystal of topaz, from Nertschinsk, Siberia.

The following mineral names added to the Museum List were previously not represented by specimens in the Collection :—

Barkevikite, bityite, davidite, giorgiosite, grandidierite, lotrite, mohawk-algodonite, morinite, natrojarosite, passyite, plancheite, prismatine, quisquite, randannite, sefströmite, strüverite, titanolivine, villiaumite.

Rocks.

By Presentation :

Specimens of antigorite-serpentine from the Alps : by the Rev. T. G. Bonney, F.R.S.

A small collection of rock-specimens from Corsica : by Dr. C. I. Forsyth Major, F.R.S.

Specimens of monchiquite with large porphyritic micas, from Colonsay Island, Argyllshire : by the Assistant-Director of the Geological Survey of Scotland.

Rock-specimens from Kärda, Sweden : by C. Maitland, Esq.

A specimen of borolanite, from Scotland : by C. D. Sherborn, Esq.

Volcanic bomb, from La Palma, Canary Islands : by H. D. Acland, Esq.

Rock-specimens from Iceland : by Baron Maurice de Komorowicz.

A specimen of phonolite, from the Cook Islands : by Prof. P. Marshall.

Rock-specimens from Islands in the Caribbean Sea : by Dr. P. Lowe.

Specimens of mariupolite from Sea of Azov : by Prof. J. Morozewicz.

A collection of small rock-specimens (with thin slices), from Natal and Zululand : by the Director of the Natal Government Museum, Pietermaritzburg.

By Purchase :

A collection of rock-specimens from the Lötschberg Tunnel, Switzerland.

A series of basalt-specimens showing various mineral inclusions, from Rhenish Prussia.

Meteorites.

By Presentation :

Uwet, Southern Nigeria ; a mass weighing 7844 grams : by the Governor of Southern Nigeria, through the Director of the Imperial Institute.

Huizopa, 60 miles west of Temosachic, Chihuahua, Mexico : a piece weighing 1549 grams : by R. Tower, Esq.

Fraserburg, Cape Colony ; fragments weighing 65 grams : by the Director of the South African Museum, Cape Town.

By Purchase:

Mount Zomba, British Central Africa; a stone weighing 297 grams.

Williamstown, Kentucky; a slice weighing 845 grams.

Ainsworth, Nebraska; a slice weighing 536 grams.

Modoc, Kansas; a stone weighing 2045 grams.

Eli Elwah, New South Wales; a stone weighing 14,650 grams.

Those Meteorites of which the names are italicized belong to falls hitherto unrepresented in the Museum Collection.

L. Fletcher.

DEPARTMENT OF BOTANY.

I.—*Arrangement and Conservation.*

During the past year 25,625 specimens have been incorporated with the Herbarium. This number includes 21,425 Flowering Plants, 1,598 Vascular Cryptogams, 6 Mosses, 41 Hepatics, 898 Lichens, 218 Algæ, and 1,439 Fungi.

Flowering Plants.—Collections have been mounted and incorporated as follows:—From Hungary and Styria (Hayek), from the Balkans (Schneider), from Denmark (Rubi by Fredrichsen), from Poland (Flora Polonica), from Asia Minor and Persia (Bornmüller), from Turkestan (Regel), from Malaya (Ridley), from China, Corea and Japan (Faurie), from German East Africa (Scheffler, Büsse), from Cameroons (Zenker), from South Africa (Schlechter), from Montana (Blankinship), from Washington (Suksdorf), from Texas (Lindheimer), from Jamaica (New York Botanic Garden), from Costa Rica (Tonduz), from Bolivia (Fiebrig), from Brazil (Dusén, Riedel), from Patagonia (Dusén), and from New Caledonia (Schlechter).

Collections from Malaya (Ridley, Bartlett, Hose, Hewitt and others), from Uganda (Bagshawe, Brown), from Gazaland (Swynnerton), from Rhodesia (Chubb, Kässner), from Angola (Gossweiler), from Nigeria (Yates, Kitson), from Chili (Middleton, Philippi, Scott Elliot), and from West Australia (Sargent), have been wholly or in part named, mounted, and incorporated.

In the division Polypetalæ additions have been made by incorporation, especially in the orders Ranunculaceæ, Caryophyllaceæ, Bruniaceæ, and Leguminosæ. A considerable amount of time has been devoted to incorporating and wholly or in part identifying various African collections, especially a large collection from Gazaland made by Mr. C. F. M. Swynnerton. Work of revision and rearrangement has been done in the orders Menispermaceæ (in conjunction with Dr. Diels), Bixineæ (the African species), and Crassulaceæ (the genus *Kalanchoe*). Portions of the collections made by Dr. A. G. Bagshawe in Uganda have been worked out in conjunction with the collector and the results published. The undetermined specimens of Chinese *Impatiens* have been named and annotated by Sir Joseph Hooker, and the undetermined specimens of the genus *Xanthophyllum* by Dr. Chodat of Geneva. Some work of revision on the genus *Grewia* has been done by Mr. J. R. Drummond and Mr. T. A. Sprague (of the Kew Herbarium).

In the division Gamopetalæ additions have been made by incorporation, especially in the orders Rubiaceæ, Caprifoliaceæ, Compositæ, Polemoniaceæ, Apocynaceæ, Asclepiadaceæ, Convolvulaceæ and Scrophulariaceæ, and work of revision has

been done in the orders Rubiaceæ (chiefly South American species), and Convolvulaceæ (Tropical and South African species).

In the division Apetalæ work of incorporation has been done in several orders, especially Chenopodiaceæ, Amarantaceæ, Polygonaceæ, Lauraceæ, Euphorbiaceæ and Cupuliferæ. The order Monimiaceæ has been rearranged.

In the Monocotyledons work of incorporation has been done chiefly in the orders Orchidaceæ, Liliaceæ, Juncaceæ, Cyperaceæ, and Gramineæ. The orders Najadaceæ, Potamogetonaceæ, Alismaceæ, Butomaceæ, Typhaceæ, Eriocaulaceæ, and Juncaceæ, have been revised and rearranged.

Work of incorporation and revision has been done in the British Herbarium.

Considerable progress has been made with the sorting and arrangement of duplicates for purposes of exchange.

Ferns.—Additions have been made by incorporation in the following families: Schizæaceæ, Osmundaceæ, Polypodiaceæ, Hydropterideæ, Lycopodiaceæ; collections from Rhodesia (Eyles), Solomon Islands (Guppy), New Granada (Kalbreyer), have been mounted and incorporated; the revision of the specimens collected by Cuming in the Philippines has been completed, and the African species of *Asplenium* and *Nephrodium* have been revised; collections made in Gazaland by Swynnerton and in British East Africa by Meinertzhagen have been determined.

Bryophyta.—Specimens of Mosses collected in Fiji by Miss Gibbs have been determined.

Algæ.—The residual material of the Batters herbarium and its collection of microscopic slides, and the Fresh-water Algæ of Hassall and of Jenner, have been set in order and incorporated; work of rearrangement and revision has been done on several genera of Florideæ and Chlorophyceæ; work of revision and determination has been done on the Characeæ and Siphonææ, and on Algæ from the Indian Ocean and from Auckland Island, Campbell Island and the Snares.

Fungi.—Work of incorporation has been done chiefly in the Discomycetes and Pyrenomycetes, and in the genus *Puccinia*; the British Fungi have been rearranged according to recent monographs, the sorting of specimens in the Phillips collection has been continued, and many drawings of Discomycetes and Hymenomycetes have been mounted and incorporated.

Lichens.—Progress has been made with the incorporation and revision of the British Lichens, chiefly the Graphideæ.

Exhibition Series.—The representation of the orders of Dicotyledons in the large wall-cases in the public gallery has been completed, and various specimens have been added to the

general series. Progress has been made with the exhibition of a series of British Lichens, and with the selection and preparation of specimens and drawings for an exhibition of British Hepatics. A series of coloured drawings of British Plants by Miss E. N. Gwatkin, a series of coloured drawings of American plants by Mrs. H. B. Morse, and an exhibition of abnormalities in plants, have been placed on exhibition. The exhibition of British Trees in the Central Hall has been completed.

Catalogues.—A *Synopsis of the British Basidiomycetes*, based on the MSS. and drawings of Mr. Worthington G. Smith, has been published. Progress has been made with the preparation of a *Catalogue of the Sloane Herbarium* by Mr. Britten, a *Monograph of the Orchids of Jamaica* by Mr. Fawcett and Dr. Rendle, the second edition of Mr. Arthur Lister's *Monograph of the Mycetozoa*, and the second volume, by Miss A. Lorrain Smith, of Crombie's *Catalogue of British Lichens*.

II.—Publications.

Synopsis of the British Basidiomycetes. By Worthington G. Smith.

Guide to Sowerby's Models of British Fungi. Second edition revised.

Apart from the official publications issued by the Trustees, the following relating to the collections have appeared:—

An account of the Plants collected on Mt. Ruwenzori by Dr. A. F. R. Wollaston. By Dr. Rendle, Mr. E. G. Baker and Mr. Spencer Moore. (*Journal of Linnean Society*.)

On a Collection of Plants by H. C. Robinson and L. Wray, from Gunong Tahan, Pahang. By Mr. H. N. Ridley, assisted by Dr. Rendle, Mr. E. G. Baker and Mr. A. Gepp. (*Journal of Linnean Society*.)

Notes on African Convolvulaceæ. By Dr. Rendle. (*Journal of Botany*.)

The Sections of *Geissaspis*. By Mr. Baker. (*Journal of Botany*.)

Uganda Combretaceæ. By Mr. Baker and Dr. A. G. Bagshawe. (*Journal of Botany*.)

A new *Turræa* from Uganda. By Mr. Baker and Dr. A. G. Bagshawe. (*Journal of Botany*.)

Uganda Anonaceæ. By Mr. Baker and Dr. A. G. Bagshawe. (*Journal of Botany*.)

Alabastra Diversa. Parts XVI. and XVII. By Mr. Spencer Moore. (*Journal of Botany*.)

The Erlangeas of § Bothriocline. By Mr. Spencer Moore. (*Journal of Botany*.)

Marine Algæ (Chlorophyceæ and Phæophyceæ) of the "Sealark" Expedition, collected by Mr. Stanley Gardiner. By Mr. and Mrs. A. Gepp. (*Transactions of the Linnean Society*.)

Some Works of C. F. P. von Martius. By Mr. B. B. Woodward. (Journal of Botany.)

Some Suffrutescent Apocynaceæ from Angola. By Dr. Otto Stapf, Keeper of the Herbarium, Royal Gardens, Kew. (Journal of Botany.)

The Subsection Eucaninæ of the Genus Rosa. By Major A. H. Wolley-Dod. (Journal of Botany.)

The Forms of *Salvia Verbenaca* L. By Mr. H. W. Pugsley. (Journal of Botany.)

The Morphology and Systematic Position of *Scytothamnus australis*. By Miss Charlotte M. Gibson. (Journal of Botany.)

New and Rare British Fungi. By Miss A. Lorrain Smith (with Mr. Carleton Rea). (Transactions of the British Mycological Society.)

III.—*Exchange of Duplicates.*

Exchanges have been effected with the Botanic Gardens, Singapore; the Botanic Museum, Zurich; the Hofmuseum, Vienna; the Botanic Museum, Copenhagen; the United States National Herbarium, Washington; the Museu Goeldi, Para, Brazil; Dr. H. Bolus, Cape Town; and Oswald Sargent, Esq., York, West Australia.

IV.—*Loan of Specimens.*

Specimens for determination have been lent as follows:—

34 specimens of Chinese *Impatiens* to Sir Joseph Hooker; 24 specimens of *Xanthophyllum* to Dr. Robert Chodat, of Geneva.

V.—*Departmental Library.*

The additions during the past year have been, by donation, 56 volumes, 118 pamphlets; by purchase, 162 volumes—in all 218 volumes, 118 pamphlets. These include 13 periodicals in 162 parts, presented, and 86 periodicals in 634 parts, purchased—in all 99 periodicals in 796 parts.

164 volumes have been bound.

Work of incorporation and revision has been done in the general collection of drawings of specimens, and the following series of drawings have been arranged and bound: Miss Florence Woolward's original drawings of the genus *Masdevallia*; Fernando Noronha's Java Plants; and Domingos Vandelli's Brazilian Plants. The Salisbury drawings and MSS. have been bound. The collection of Miers' drawings and MSS. and Deschamps' drawings have been arranged and placed in Solander cases, and a selection of Miss E. N. Gwatkin's drawings of British Plants has been bound and placed on exhibition in the public gallery.

VI.—*Acquisitions.*

The following additions have been made to the collections by presentation:—The Herbarium of the late Rev. R. P. Murray,

from Mrs. R. P. Murray ; 12 specimens of seeds from Sikkim, from Capt. Gage ; 22 Phanerogams from New Guinea, from Capt. F. R. Barton ; 138 Phanerogams from the Curator of the Sarawak Museum ; 54 Phanerogams from neighbourhood of Shanghai, from F. W. Styan, Esq. ; 78 Phanerogams and 15 Cryptogams from Fiji, from Miss L. Gibbs ; 24 Phanerogams from West Australia, from O. H. Sargent, Esq. ; 9 specimens of Australian woods from Millar's Karri and Jarrah Co. ; 32 Phanerogams and 4 ferns from South Nigeria, from A. E. Kitson, Esq. ; 114 Phanerogams and 1 Cryptogam from Nigeria, from C. C. Yates, Esq. ; 27 Phanerogams from Uganda, from E. Brown, Esq. ; 118 specimens from Rhodesia, from E. C. Chubb, Esq. ; 43 Phanerogams from Rhodesia, from Dr. R. F. Rand ; 8 specimens of fruits from West Indies, from A. E. Aspinall, Esq. ; 390 specimens from Chili, from R. M. Middleton, Esq. ; 40 Phanerogams from Patagonia, from Dr. P. Dusén ; 9 specimens of cultivated plants from Walter Ledger, Esq. ; 73 Ferns of New Zealand and 100 Ferns of tropical Asia, from Llewellyn Lewis, Esq. ; 7 growth-forms of *Asplenium Bradleyi*, from Tennessee, from R. M. Middleton, Esq. ; 227 Algæ of Barbados, from the executors of the late Miss Anna Vickers ; 48 tubes of Plankton collected in the African Lakes, by Dr. W. A. Cunningham, from the Tanganyika Committee ; 33 marine Algæ of the Danish West Indies, from Dr. F. Börgesen ; 26 Australian Lichens, from Edwin Cheel, Esq. ; 23 Mycetoza from the Philippine Islands, from E. D. Merrill, Esq. ; and single specimens from Prof. Balfour, Sir Trevor Lawrence, J. O'Brien, Esq., Sir J. Colman, Miss Selina Harding, T. Sprague, Esq., G. L. Bates, Esq., J. Groves, Esq., Dr. C. Christy, Edward S. James, Esq., Rev. P. Stapleton, Lieut.-Col. Lambton, Dr. Noel Bardswell, Jas. Saunders, Esq., and W. Gamble, Esq.

The additions to the British Herbarium by presentation have been :—The British Herbarium of the late John Benbow, Esq., of Uxbridge, from A. J. Benbow, Esq. ; 35 specimens from C. E. Salmon, Esq. ; 17 specimens from Rev. E. F. Linton ; 205 specimens from Rev. E. S. Marshall ; 15 specimens from W. H. Beeby, Esq. ; 5 specimens from Rev. H. J. Riddelsdell ; 74 specimens of Rubi from Rev. W. Moyle Rogers ; 30 specimens of Potamogetons from A. Bennett, Esq. ; 3 specimens from W. P. Hiern, Esq. ; 2 specimens of diseases of cultivated trees, by W. Gamble, Esq. ; 2 rare British Marine Algæ, by A. D. Cotton, Esq. ; 2 fungal diseases of insects, by E. R. Banks, Esq. ; 2 microscope-preparations from a Scottish glacial peat deposit by H. N. Dixon, Esq., and single specimens from Rev. Augustin Ley, P. Ewing, Esq., F. N. Williams Esq., Rev. Canon Vaughan, E. J. Bellord, Esq., S. H. Bickham, Esq., James Groves, Esq., Miss C. E. Larter, Dr. H. T. Güssow, Worthington G. Smith, Esq., Miss F. H. Woolward, Miss Severn, and A. W. F. Fuller, Esq.

The following additions have been made by exchange of duplicates :—265 Phanerogams and 28 Ferns from Malaya, from the Director of the Botanic Gardens, Singapore ;

139 Phanerogams and 6 Cryptogams from South Africa, collected by R. Schlechter, from the Director of the Botanic Museum, Zurich; 78 Phanerogams from South Africa, from Dr. H. Bolus, Cape Town; 18 specimens West Australian Orchids, from Oswald Sargent, Esq., West Australia; 250 Ferns from the West Indies and Mexico, from the U.S. National Herbarium, Washington; 74 Phanerogams chiefly from the West Indies and Venezuela, from the Director of the Botanic Museum, Copenhagen; 341 Phanerogams and 119 Cryptogams from the Director of the Museu Goeldi, Para, Brazil; and 200 Cryptogams from the Hofmuseum, Vienna—in all, 945 Phanerogams and 603 Cryptogams.

The principal purchases during the year were:—990 Phanerogams and 16 Cryptogams from Hungary, Bosnia, etc., from C. K. Schneider; 194 Phanerogams and 6 Vascular Cryptogams, “*Flora Stiriaca exsiccata*,” fasc. 11–14, from Hayek; 50 specimens “*Salicetum exsiccatum*,” fasc. iii., from Toepffer; 50 specimens “*Batotheca Europæa*,” fasc. vi., from Sudre; 603 Phanerogams and 102 Cryptogams from Japan and Korea, from Rev. U. Faurie; 319 Phanerogams and 117 Cryptogams from China, from Father Hugh; 50 Phanerogams and 5 Vascular Cryptogams from Java, from Buysman; 264 Phanerogams and 9 Vascular Cryptogams from N.W. Rhodesia, from Theo. Kässner; 128 specimens from German East Africa, from W. Büsse; 84 Phanerogams from German East Africa, from Scheffler; 362 specimens from Cameroons, from Zenker; 2,807 Phanerogams and 37 Cryptogams from Angola, from John Gossweiler; 470 Phanerogams and 6 Vascular Cryptogams from Montana, from J. W. Blankinship; 55 Phanerogams and 2 Equisetaceæ from Washington, from W. N. Suksdorf; 49 Phanerogams and 75 Cryptogams from Costa Rica, from Tonduz; 159 Phanerogams and 3 Cryptogams from South Bolivia, from Fiebrig; 284 Phanerogams and 25 Cryptogams from Brazil, from P. Dusén; 337 Phanerogams and 39 Cryptogams from New Caledonia, from R. Schlechter; 60 specimens “*Gramineæ*,” Lief. XXIII.–XXIV., from Kneucker; 902 microphotographs of woods illustrating minute structure, from J. A. Weale, and single specimens from C. C. Tatham and Mrs. Brittan; 218 Cryptogams of the Ionian island of Leucadia, from Mrs. Baden Powell; 90 Pteridophytes of South America, etc., from Rosenstock and Schroeder; 34 Muscineæ from South Africa and Siam, from Wilms and Hosseus; 60 Musci Americæ Septentrionalis, from Renault and Cardot; 138 Canadian Mosses, from Macoun; 50 Mosses of the Indian and Polynesian Archipelago, from Fleischer; 464 Mosses and Hepatics of Sikkim, Guatemala and Mexico, from Levier; 20 American Hepaticæ, from Haynes; 50 Hepaticæ Europææ from Schiffner; 150 North American marine Algæ, from Collins, Holden and Setcheil; 50 Fungi selecti and 40 Myxomycetes, from Jaap; 50 Fungi Imperfecti, from Kabát and Bubák; 200 Fungi Columbiani, from Bartholomew; 50 Ascomycetes, from Rehm; 100 Micromycetes Rariores Selecti, from Vestergren; 50 Uredineæ, 25 Ustilagineæ

and 100 German Fungi, from Sydow ; 50 Westphalian Fungi, from Brinkmann ; 16 prepared British Fungi, from Hartley Smith ; 66 new or rare British Fungi and 46 microscope-preparations, from Miss A. Lorrain Smith ; 100 Russian Lichens from Elenkin.

VII.—*Demonstrations.*

Demonstrations were given on the exhibition of Memorials of Linnæus by Dr. Rendle to 25 members of the Hampstead Selborne and Archæological Society on March 28, and on the exhibition of British Trees by Mr. Baker to 12 members of the Junior Branch of the Selborne Society on December 2.

VIII.—*Students and Visitors.*

The number of visits to the Department for consultation and research during the year was 2,315, as compared with 2,245 in 1907, 2,065 in 1906 and 1,939 in 1905. Numerous specimens and small collections have been named by the Staff for visitors and correspondents.

A. B. Rendle.

BRITISH MUSEUM.

RETURN to an Order of the Honourable The House of Commons,
dated 24 February 1910 ;—*for*,

COPY “of Account of the INCOME and EXPENDITURE of the BRITISH MUSEUM (SPECIAL TRUST FUNDS) for the Year ending the 31st day of March 1910; and, RETURN of the Number of PERSONS admitted to visit the MUSEUM and the BRITISH MUSEUM (NATURAL HISTORY) in each Year from 1904 to 1909, both Years inclusive; together with a STATEMENT of the PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and an ACCOUNT of OBJECTS added to them in the Year 1909.”

Treasury Chambers, }
8 April 1910. }

C. HOBHOUSE.

(*Mr. S. H. Butcher.*)

Ordered, by The House of Commons, to be Printed,
8 April 1910.

L O N D O N :
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I.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.			STOCK, 2½% Consols.		
	£.	s.	d.	£.	s.	d.
To BALANCES on the 1st April 1909 - - -	316	3	7	13,598	3	11
- DIVIDENDS received on 13,598 <i>l.</i> 3 <i>s.</i> 11 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by the Earl of Bridgewater, viz.:						
On the 5th April 1909 - £. 84 19 9						
,, 5th July 1909 - - 84 19 9						
,, 5th October 1909 - 84 19 9						
,, 5th January 1910 - 84 19 9						
			339 19 -			
- RENT OF A REAL ESTATE, Whitchurch, bequeathed by the Earl of Bridgewater (less charges of collection, repairs, &c.) - - -			12 5 6			
	£.	668	8 1	13,598	3	11

II.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.			STOCK, 2½% Consols.		
	£.	s.	d.	£.	s.	d.
To BALANCES on the 1st April 1909 - - -	133	15	-	2,879	10	7
- DIVIDENDS received on 2,879 <i>l.</i> 10 <i>s.</i> 7 <i>d.</i> Stock in 2½ per Cent. Consols be- queathed by Lord Farnborough, viz.:						
On the 5th April 1909 - £. 17 19 11						
,, 5th July 1909 - - 17 19 11						
,, 5th October 1909 - 17 19 11						
,, 5th January 1910 - 17 19 11						
			71 19 8			
	£.	205	14 8	2,879	10	7

BRIDGEWATER FUND, from the 1st April 1909 to the 31st March 1910.

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
BY One Year's SALARY of the Egerton Librarian -	175 - -	
- AMOUNT expended on purchase of Manuscripts -	416 5 -	
- BALANCES ON THE 31ST MARCH 1910, carried to Account for 1910-1911 - - -	77 3 1	13,598 3 11
£.	668 8 1	13,598 3 11

FARNBOROUGH FUND, from the 1st April 1909 to the 31st March 1910.

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
BY BALANCES ON THE 31ST MARCH 1910, carried to Account for 1910-1911 - - -	205 14 8	2,879 10 7
	205 14 8	2,879 10 7

III.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

	CASH.		STOCK, 2½ % Consols.	
	£.	s. d.	£.	s. d.
To BALANCES on the 1st April 1909	-	-	56	10 1
DIVIDENDS received on 5,683 <i>l.</i> 1 <i>s.</i> 6 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Dr. George Swiney for Lectures on Geology, viz.:				
On the 5th April 1909	-	£. 35 10 4		
„ 5th July 1909	-	35 10 4		
„ 5th October 1909	-	35 10 4		
„ 5th January 1910	-	35 10 4		
			142	1 4
	£.	198 11 5	5,683	1 6

IV.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of

	CASH.		STOCK, 2½ % Consols.	
	£.	s. d.	£.	s. d.
To BALANCE on the 1st April 1909	-	-	565	3 9
- DIVIDENDS received on 565 <i>l.</i> 3 <i>s.</i> 9 <i>d.</i> Stock in 2½ per Cent. Consols, bequeathed by Dr. Birch in 1766, for the three Under Librarians of the British Museum, viz.:				
On the 5th April 1909	-	£. 3 10 8		
„ 5th July 1909	-	3 10 8		
„ 5th October 1909	-	3 10 8		
„ 5th January 1910	-	3 10 8		
			14	2 8
	£.	14 2 8	565	3 9

SWINEY FUND, from the 1st April 1909 to the 31st March 1910.

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
BY AMOUNT paid to Dr. T. J. Jehu, for Lectures on Geology in 1909 - - - - -	140 - -	
- BALANCES ON THE 31ST MARCH 1910, carried to Account for 1910-1911 - - -	58 11 5	5,683 1 6
£.	198 11 5	5,683 1 6

the BIRCH FUND, from the 1st April 1909 to the 31st March 1910.

	CASH.	STOCK, 2½% Consols.
	£. s. d.	£. s. d.
BY LEGACY paid to the three Under Librarians of the British Museum, whose offices existed in 1766, viz., the Keepers of the Departments of Printed Books, Manuscripts and Natural History - - - - -	14 2 8	
- BALANCE ON THE 31ST MARCH 1910, carried to Account for 1910-1911 - - -	-	565 3 9
£.	14 2 8	565 3 9

V.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest and Extension of the Library and Reading Room of the British

	CASH.	LOCAL LOANS STOCK.
	£. s. d.	£. s. d.
To AMOUNT of Local Loans Stock on 1st April 1909 - - - - -	—	56,585 10 -
- DIVIDENDS received during the year - - -	1,717 3 8	
- AMOUNT of Local Loans Stock purchased with the Dividends - - - - -	—	1,769 17 5
£.	1,717 3 8	58,355 7 5

VI.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest
1st April 1909 to

	CASH.	METROPOLITAN 3½% STOCK.
	£. s. d.	£. s. d.
To AMOUNT of Metropolitan 3½ per cent. Stock on 1st April 1909 - - - - -	—	8,092 19 3
- DIVIDENDS received during the year - - -	286 17 10	
- AMOUNT of Metropolitan 3½ per cent. Stock purchased with the Dividends - - - - -	—	280 19 9
£.	286 17 10	8,373 19 -

of the late MR. VINCENT STUCKEY LEAN (for the Improvement Museum) from the 1st April 1909 to the 31st March 1910.

	CASH.	LOCAL LOANS STOCK.
	£. s. d.	£. s. d.
BY AMOUNT expended in the purchase of 1,769 <i>l.</i> 17 <i>s.</i> 5 <i>d.</i> Local Loans Stock, Commission, &c. - - - -	1,717 3 8	
- BALANCE OF STOCK ON THE 31ST MARCH 1910 carried to account for 1910-1911 - -	—	58,355 7 5
£.	1,717 3 8	58,355 7 5

of the late MR. CHARLES DRURY EDWARD FORTNUM from the the 31st March 1910.

	CASH.	METROPOLITAN 3½ % STOCK.
	£. s. d.	£. s. d.
BY AMOUNT expended in the purchase of 280 <i>l.</i> 19 <i>s.</i> 9 <i>d.</i> Metropolitan 3½ per cent. Stock, Commission, &c. - - - -	286 17 10	
- BALANCE OF STOCK ON THE 31ST MARCH 1910 carried to account for 1910-1911 - -	—	8,373 19 -
£.	286 17 10	8,373 19 -

Frederic G. Kenyon,
Director and Principal Librarian.

VII.—NUMBER of PERSONS ADMITTED to VISIT the BRITISH MUSEUM and the BRITISH MUSEUM (NATURAL HISTORY).

A.—PERSONS Admitted to View the GENERAL COLLECTIONS in the British Museum in each Year from 1904 to 1909, both Years inclusive.

	1904.		1905.		1906.		1907.		1908.		1909.	
	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.
January	-	74,185	-	71,905	-	54,267	-	48,297	-	44,498	-	49,213
February	-	62,945	-	59,212	-	44,034	-	43,522	-	43,488	-	36,296
March	-	65,136	-	68,136	-	44,010	-	45,298	-	42,739	-	43,517
April	-	84,567	-	86,755	-	61,298	-	54,485	-	70,302	-	7,460
May	-	72,706	-	65,143	-	52,000	-	50,036	-	46,840	-	6,881
June	-	65,980	-	71,619	-	55,551	-	43,238	-	50,615	-	54,049
July	-	74,591	-	62,396	-	56,513	-	48,799	-	66,035	-	7,992
August	-	89,089	-	79,875	-	71,925	-	72,023	-	90,251	-	76,856
September	-	83,573	-	67,891	-	50,615	-	43,485	-	75,929	-	7,058
October	-	77,805	-	49,502	-	55,847	-	48,878	-	55,854	-	53,989
November	-	69,058	-	28,392	-	46,621	-	44,577	-	41,041	-	5,615
December	-	77,864	-	38,726	-	41,531	-	40,141	-	41,497	-	47,802
Total Number of Persons admitted to view the General Collections.		897,699		751,552		634,212		582,779		669,089		644,143
		954,551		813,659		691,950		646,300		743,413		708,836

NUMBER OF VISITS OF STUDENTS TO PARTICULAR DEPARTMENTS.

	1904.	1905.	1906.	1907.	1908.	1909.
To the Reading Room - - - - -	226,323	214,940	212,997	137,682	231,544	217,375
" Newspaper Room - - - - -	22,053	21,857	19,723	20,098	19,019	21,122
" Map Room - - - - -	297	286	281	281	296	371
" Department of Manuscripts - - - - -	10,469	10,623	11,414	11,854	12,370	11,683
" Department of Oriental Printed Books and Manuscripts.	3,595	3,552	3,313	3,286	2,270	2,678
" Print Room - - - - -	8,383	8,614	8,396	8,590	8,990	9,343
" Egyptian and Assyrian Department - - - - -	2,900	2,750	2,668	2,550	3,100	3,260
" Greek and Roman Department - - - - -	740	574	600	428	457	563
" Galleries of Sculpture - - - - -	2,935	2,985	1,758	1,206	1,614	1,077
" British and Mediaeval Department - - - - -	2,514	1,905	2,995	3,254	3,267	3,591
" Coin and Medal Room - - - - -	4,223	4,411	4,365	4,191	4,293	4,377
Total - - - - -	284,432	272,497	268,510	193,420	287,220	276,040

The British Museum, Bloomsbury (including the Departments of Printed Books and Maps, Manuscripts, Oriental Printed Books and Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, Greek and Roman Antiquities, British and Mediæval Antiquities and Ethnography, and Coins and Medals), is open to the public free daily (except on Good Friday and Christmas Day and days of Public Fast or Thanksgiving), as follows:—

On WEEKDAYS from 10 a.m. to 6 p.m.

After 4 p.m. in January, February, November, December, and after 5 p.m. in March, September, October, only certain of the galleries remain open, viz. :—

On MONDAYS, WEDNESDAYS, and FRIDAYS.	{	Exhibitions of Manuscripts, Printed Books, Prints and Drawings, Porcelain, Glass and Majolica; Prehistoric, British, Anglo-Saxon, Mediæval and Ethnographical Collections.
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ON TUESDAYS, THURSDAYS, and SATURDAYS.	{	Egyptian, Assyrian, Greek and Roman Galleries; the Gold Ornament Room, the American Room and the Waddesdon Room.
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On SUNDAY AFTERNOONS :—

From 2 to 4	p.m. in	January, February, November, December.
" 2 " 5	" "	October.
" 2 " 5.30	" "	March, September.
" 2 " 6	" "	April, May, June, July, August.

Persons applying for the purposes of research and reference are admitted to the Reading Room under certain regulations every weekday, except the days specified below, from 9 a.m. until 7 p.m. The Newspaper Room is open, under similar regulations, from 10 a.m. until 5 p.m.

The Reading Room, Newspaper Room, and Students' Rooms in the Library and Department of Manuscripts are closed on Sundays, Good Friday, Christmas Day, and the first four weekdays in March and September.

Other Students' Rooms are closed on Sundays, Good Friday, and Christmas Day, and occasionally for cleaning.

Students are admitted generally to the several Departments on weekdays, from 10 till 4 or 5 o'clock ; and to the Sculpture Galleries from 9 o'clock till the hour of closing.

British Museum, }
31 March, 1910. }

Frederic G. Kenyon,
Director and Principal Librarian.

B.—PERSONS ADMITTED TO VIEW THE COLLECTIONS IN THE BRITISH MUSEUM (NATURAL HISTORY), CROMWELL ROAD, in each Year from 1904 to 1909, inclusive.

	1904.		1905.		1906.		1907.		1908.		1909.	
	Weekdays.		Sundays.		Weekdays.		Sundays.		Weekdays.		Sundays.	
	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.	Weekdays.	Sundays.
January	43,394	4,758	39,655	3,933	35,413	3,622	30,598	2,979	22,626	2,459	33,756	4,269
February	26,900	5,481	23,614	4,445	25,960	4,227	26,846	4,250	24,253	5,117	25,852	4,163
March	28,790	6,138	33,156	5,406	27,982	5,454	33,865	7,539	29,361	6,290	29,153	5,053
April	56,671	6,418	60,418	7,071	44,218	6,929	58,220	7,394	61,990	7,157	56,355	5,223
May	36,952	6,466	43,425	8,290	32,020	5,942	47,095	6,147	33,866	6,435	36,630	5,269
June	32,022	4,887	66,124	7,455	42,840	4,380	37,105	7,144	46,159	4,941	42,446	8,117
July	28,540	4,499	36,063	6,948	32,969	6,279	32,093	5,741	42,531	5,788	46,808	5,275
August	43,554	5,178	57,812	6,206	49,279	5,811	49,158	5,954	61,603	9,277	58,812	6,244
September	30,695	5,796	35,916	6,370	29,810	6,683	31,014	6,166	45,399	6,193	40,239	5,642
October	23,689	5,929	33,263	6,793	37,739	5,354	33,618	5,722	32,124	5,235	39,650	6,061
November	24,941	3,203	32,477	3,709	28,799	3,276	25,714	3,736	24,741	4,107	32,856	2,784
December	33,500	2,156	33,758	3,458	24,677	3,194	25,744	3,595	26,404	2,287	31,094	2,665
Total Number of Persons admitted to view the Natural History Collections (including students)	409,648	60,909	496,229	70,084	411,406	61,151	431,070	66,367	451,057	65,986	473,651	61,465
	470,557		566,313		472,557		497,437		517,043		535,116	

NUMBER OF VISITS TO PARTICULAR DEPARTMENTS for the purpose of STUDY.

	1904.	1905.	1906.	1907.	1908.	1909.
Zoology	11,824	11,811	10,813	11,043	10,220	11,461
Geology	4,854	4,968	4,171	5,544	5,803	5,057
Mineralogy	909	994	867	855	987	888
Botany	2,358	1,939	2,065	2,245	2,315	2,712
Total	19,945	19,712	17,916	19,687	19,325	20,068

The Exhibition Galleries of the British Museum (Natural History), Cromwell Road, South Kensington, including the Departments of Zoology, Geology and Palæontology, Mineralogy, and Botany, are open to the public, free, daily, except Good Friday and Christmas Day, and days of Public Fast or Thanksgiving.

The hours of Admission are as under:—

On WEEKDAYS, throughout the year from 10 a.m., in

January	-	-	-	-	-	-	to	4	p.m.
February 1st to 14th	-	-	-	-	-	-	„	4.30	„
February 15th to end	-	-	-	-	-	-	„	5	„
March	-	-	-	-	-	-	„	5.30	„
April to August	-	-	-	-	-	-	„	6	„
September	-	-	-	-	-	-	„	5.30	„
October	-	-	-	-	-	-	„	5	„
November and December	-	-	-	-	-	-	„	4	„

also, on MONDAYS and SATURDAYS only, from the beginning of May to the middle of July, to 8 p.m., and from the middle of July to the end of August, to 7 p.m.

On SUNDAYS, in

January	-	-	-	-	from	2	to	4	p.m.
February 1st to 14th	-	-	-	-	„	2	„	4.30	„
February 15th to end	-	-	-	-	„	2	„	5	„
March	-	-	-	-	„	2	„	5.30	„
April	-	-	-	-	„	2	„	6	„
May to August	-	-	-	-	„	2.30	„	7	„
September	-	-	-	-	„	2	„	5.30	„
October	-	-	-	-	„	2	„	5	„
November and December	-	-	-	-	„	2	„	4	„

Persons are admitted to study in these Departments every weekday from 10 till 4 o'clock.

British Museum (Natural History),	}	<i>L. Fletcher,</i> Director of the Natural History Departments.
26 February, 1910.		

VIII.—GENERAL PROGRESS AT THE MUSEUM, BLOOMSBURY.

The total number of visitors to the Museum in 1909 was 708,836, as against 743,413 in 1908 (when the Franco-British Exhibition attracted an unusual number of visitors to London), and 646,300 in 1907. The total for week-days was 644,143, and for Sundays 64,693, the latter being the highest figure yet reached, with the exception of 74,324 in 1908.

The number of visits by readers to the Reading Room was 217,975, a lower figure than in 1908, when it amounted to 231,544, but higher than in any other year of the present century, except 1904. The daily average was 719, as against 761 in 1908.

The number of visits of Students to particular Departments (other than the Reading Room) was 58,065, as compared with 55,676 in 1908. An increase is shown in the figures for every Department, except that of Manuscripts and the Sculpture Galleries.

Work was resumed on the British Museum Extension Building early in the year, when the contract for the main building was given to Mr. W. E. Blake, of Plymouth. The contract date for the completion of the building is the 31st January 1911.

The work of constructing fire-resisting partitions in the roof of the Museum has been continued; and progress has been made with the replacing of decayed stones in the outer walls of the building.

The temporary iron building, erected to contain the casts of antique sculpture transferred from the Victoria and Albert Museum, was completed and opened to the public on the 23rd August.

By arrangement with the India Office, accommodation was provided for the collections brought by Dr. Stein from Central Asia, in order that Dr. Stein and his assistants might have facilities for examining and cataloguing them before they pass finally into the custody of the India Office and the British Museum.

The principal additions to the collections are noticed below in the reports from the several Departments; but a few of the more important may be specially mentioned here.

In the Department of Printed Books, the policy of increasing the collection of incunabula, in view of the Catalogue of Early Printed Books now in progress, has been continued. Sixty-six books printed before 1501 have been acquired, including three from presses hitherto unrepresented in the British Museum; and

127 English books printed before 1640, including a set of 64 Year Books; the only known copy of "The Queenes Majesties Entertainment at Woodstock, 1585"; the only known copy of the first edition of "Greene's Groats-worth of Witte," 1592; the only known copy of a surreptitious edition of Drayton's "Piers Gaveston," 1595; and the second issue of the first edition of Milton's "Paradise Lost" (completing the Museum set of this edition). Several rare volumes were obtained at the sale of Lord Amherst's library. Other interesting acquisitions include a copy of J. S. Mill "On Liberty," with manuscript notes by J. Ruskin, presented by E. T. Cook, Esq.; the "Catalogue of the Collection of Old Plate of J. Pierpont Morgan," presented by J. Pierpont Morgan, Esq.; and the "Catalogue of the Pictures in the Collection of the Earl of Radnor," presented by the Earl of Radnor.

The Department of Manuscripts acquired the correspondence and papers of William Windham, Secretary at War 1794-1801, in 94 volumes, including letters of Burke, Pitt, Fox, Canning, and many of the French Royalists; a copy of Fitzgerald's "Omar Khayyam," written by William Morris and illuminated from designs by Morris and Burne-Jones (presented by Lady Burne-Jones); the autograph MSS. of several works by Oscar Wilde (presented by Robert Ross, Esq.); and several early English MSS. from the Amherst Library.

The Department of Oriental Printed Books and Manuscripts received a collection of 325 manuscripts (259 of which are Turkish), bequeathed by the late E. J. W. Gibb, Esq. It also acquired a valuable group of 10 MSS. in the Upper Egyptian dialect of Coptic, in which complete works are very rare.

The Department of Prints and Drawings profited largely by the permission recently granted to exchange duplicate prints for others of the same school. Under this permission, many valuable German prints were secured from the Lanna Collection. The Department also acquired Sir E. Burne-Jones's "Flower Book," containing 38 drawings of great beauty; and a considerable number of Japanese woodcuts.

The principal acquisitions of the Department of Egyptian and Assyrian Antiquities were a black granite seated figure of an official of the IVth Dynasty; two fine statues of officials of the court of Queen Hatshepset; a seated statue of a tribal chief of about 1200 B.C., with gold mask, crown, chain, &c. (purchased with the help of a donation from Lady Wantage); and a foundation-cylinder from the palace of Sennacherib, containing the longest inscription of that king yet discovered, with much interesting historical information.

The Department of Greek and Roman Antiquities received a gold necklace of the 4th century B.C., presented by Sir H. Howorth, K.C.I.E.; a head of Dionysos, of the same date; a head of the Emperor Titus; and many minor objects.

The Department of British and Mediæval Antiquities benefited very largely by the munificence of private donors. Besides a great number of minor objects, three large and very important collections were acquired in this way, namely, the Greenwell Collection of Bronze Age Antiquities, presented by J. Pierpont Morgan, Esq.; the Falcke Collection of Wedgwood ware, presented by Isaac Falcke, Esq., and Mrs. Falcke; and a very important and well-preserved series of 250 pottery vases from ancient graves in Peru, presented by H. Van den Bergh, Esq. These will be found described in fuller detail below. The Ethnographical Section was also enriched by a large series of objects from the Kasai District in the Congo State, acquired by the expedition under the command of Mr. E. Torday, and a further portion of the same collection was presented by the Christy Trustees.

The Department of Coins and Medals acquired in all 2,495 items, the most important of which are described below.

Gifts of Museum publications, including reproductions of prints and drawings by Old Masters, and sets of electrotypes of British Historical Medals, have been made to Free Libraries, Local Museums, and Art Schools throughout the United Kingdom, and to institutions in various Colonies.

The following are the publications issued by the Departments at Bloomsbury during the year:—

Texts relating to Saint Mênâ of Egypt and Canons of Nicaea, in a Nubian Dialect. Edited by E. A. Wallis Budge, Litt.D. With facsimile. 1909. 8vo., 12s.

Cuneiform Texts from Babylonian Tablets, &c., in the British Museum. Part XXV. 50 plates. 1909. Foolscap, 7s. 6d.

Cuneiform Texts from Babylonian Tablets, &c., in the British Museum. Part XXVI. 54 plates. 1909. Foolscap, 12s.

Catalogue of Ivory Carvings of the Christian Era, with examples of Mohammedan Art and Carvings in Bone. By O. M. Dalton. With 125 plates. 1909. 4to., 2l. 2s.

Medallic Illustrations of the History of Great Britain and Ireland. Parts X. and XI. 10 plates each. 1909. Folio, 6s. each part.

Catalogue of Manuscript Music in the British Museum. By Augustus Hughes-Hughes. Vol. III. Instrumental Music, Treatises, etc. 1909. 8vo., 1l. 1s.

Codex Alexandrinus, in reduced collotype facsimile: New Testament and Clementine Epistles. 1909. 4to., portfolio. 1l. 10s.

Catalogue of the Hebrew and Samaritan Manuscripts in the British Museum. Part III., Section I. (Kabbalah). 1909. 4to., 1*l.* 4*s.*

Supplementary Catalogue of Hindustani Books in the British Museum, acquired during the years 1889-1908. 1909. 4to., 2*l.*

Catalogue of the Tamil Books in the British Museum. 1909. 4to., 2*l.* 5*s.*

Reproductions of Prints. Third Series. Part III. (Specimens of Etching by French Masters, 1620-1670.) 25 plates. 1909. 2*l.*

Guide to the Exhibition Galleries of the British Museum (Bloomsbury). Ninth edition. With plans. 1909. 8vo., 2*d.*

Guide to the Egyptian Collections in the British Museum. With 53 plates and 180 illustrations. 1909. 8vo., 1*s.*

Guide to the Egyptian Galleries (Sculpture). With 39 plates and 46 illustrations. 1909. 8vo., 1*s.* 6*d.*

Plan of Reading Room. New edition. 1909. 6*d.*

Description of Reading Room. New edition. 1909. 1*d.*

British Museum,
31 March, 1910.

Frederic G. Kenyon,
Director and Principal Librarian.

IX.—PROGRESS made in the ARRANGEMENT AND DESCRIPTION OF THE COLLECTIONS, AND ACCOUNT OF OBJECTS ADDED TO THEM in the Year 1909 (Bloomsbury).

DEPARTMENT OF PRINTED BOOKS.

I. *Arrangement*.—The works added to the collection during the past year have, as far as possible, been placed on the shelves of the Library according to the system of classification adopted in the Museum.

The press-marks, indicating their respective localities, have been marked on the inside and affixed to the back of each volume.

The total number of these press-marks amounts to 72,766; in addition to which 119,546 press-marks have been altered, on books and in the catalogues, in consequence of changes and re-arrangements carried out in the Library; 33,655 labels have been affixed to books and volumes of newspapers, and 110,910 labels have been renewed.

The number of stamps impressed upon articles received is 458,506.

4,667 presses of books and newspapers have been dusted in the course of the year.

II. *Catalogues*.—*Cataloguing*.—47,489 titles have been written (the term "title" applying equally to a main-title and to a cross-reference) for the General Catalogue and for the Catalogues of Maps and Music.

Printing.—31,612 titles and index-slips for the General Catalogue, 5,639 titles for the Map Catalogue, and 15,434 for the Music Catalogue have been prepared for printing during the year; and 28,679 titles and index-slips for the General Catalogue, 3,136 titles for the Map Catalogue, and 15,434 for the Music Catalogue, have been printed.

Reprinting.—101 columns have been revised, rearranged, and reprinted during the year.

Incorporation.—*General Catalogue*.—28,030 title-slips and index-slips have been incorporated into each of three copies of this Catalogue. This incorporation has rendered it necessary, in order to maintain as far as possible the alphabetical arrangement, to remove and re-insert 36,985 title-slips and index-slips in each copy and to add to each copy 733 new leaves.

The system of fortnightly incorporation of accessions to the Library has been carried out with perfect regularity during the year.

Map Catalogue.—3,001 titles have been written for the Map Catalogue, and 5,428 title-slips have been incorporated into each of three copies of it. This incorporation has rendered it necessary to remove and re-insert 16,662 title slips in each copy and to add to each copy 706 new leaves.

Music Catalogue.—16,420 titles have been written for the Music Catalogue, and 1,654 title-slips have been incorporated into each of two copies of it. This incorporation has rendered it necessary to remove and re-insert 3,016 title-slips in each copy and to add to each copy 53 new leaves.

Shelf Catalogue.—For this Catalogue, in which the title-slips, mounted on cards, are arranged in order of press-marks, about 25,500 have been so mounted and about 37,200 have been incorporated in their proper order.

Catalogue of Books of Reference in the Reading Room.—Part I. of this Catalogue, containing the alphabetical list of books entered under the authors' names, has been returned for press. About one-half of Part II., which contains the subject-index, is in the hands of the printer, and is already in type as far as the letter F.

Catalogue of Books printed during the XVth Century.—The preparation of Part II. of this Catalogue has made considerable progress, the titles of all books produced at Augsburg, Nuremberg, and Speier being now ready for printing.

III. *Binding.*—The number of volumes and sets of pamphlets sent to be bound in the course of the year was 16,457, including 4,471 volumes of newspapers. In consequence of the frequent adoption of the plan of binding two or more volumes in one, the number of volumes returned was 12,701. In addition to this, 159 volumes have been repaired in the binders' shops.

Besides this, the following binding work has been done in the Library itself:—3,130 volumes have been repaired; 178 broadsides, &c., have been inserted in guard-books, and 6,482 volumes of reports, parts of periodicals, &c., have been bound in a light style of binding.

The following maps, charts, &c., have also been bound or mounted during the year:—9 atlases and 144 volumes of the 25-inch Ordnance Survey have been bound, and 413 sheets of the 1-inch Ordnance Survey, and 6 Admiralty Charts have been mounted on linen; in addition, 206 general maps have been mounted on linen in 341 sheets, and 214 maps have been mounted on cards in 603 sheets. 25 boxes have been made to contain maps, and 6 boxes have been repaired.

34,091 numbers of Colonial Newspapers have been folded into 622 parcels, which have been tied up and labelled preparatory to being bound.

Seventeen volumes of the Blue Copy, 19 volumes of the Red Copy, and 26 volumes of the Green Copy of the General

Catalogue, have been broken up and rebound in 103 new volumes. Fifty-nine columns have been relaid, owing to the accumulation of titles under certain headings, as well as 61 columns of reprinted headings, in each of the three interleaved copies of the General Catalogue. In addition, 8 volumes of the Blue Copy, 6 volumes of the Red Copy, and 6 volumes of the Green Copy, comprising 1,996 columns and 15,960 accession-slips, have been entirely relaid. Eleven volumes of the Music Catalogue have been broken up and rebound in 21 new volumes.

IV. Reading Room Service.—The number of volumes replaced in the General Library after use in the Reading Room was 781,212; in the King's Library, 27,664; in the Grenville Library, 2,360; in the Map Room, 5,590; in the presses in which books are kept from day to day for the use of readers, 675,856; and in the Oriental Department, 2,410; making a total amount of 1,495,092 volumes supplied to readers during the year, exclusive of those to which readers have personal access on the shelves of the Reading Room.

The number of readers during the year was 217,975, giving an average of over 719 daily, the room having been open on 303 days; with an average of over 7 volumes daily for each reader.

Newspaper Room.—The number of readers during the year was 21,122, giving a daily average of over 69, the room having been open on 303 days. The number of volumes replaced after use was 65,279, giving a daily average of 215 and of over three volumes for each reader, not reckoning volumes, chiefly Parliamentary Papers, taken from the shelves of the Newspaper Room by the readers themselves. In addition to the above, 1,812 country newspapers were brought up to the Library from the Repository at Hendon for the use of readers.

Map Room.—371 visitors were admitted to the Map Room for the purpose of special geographical research.

Photography.—There were 490 applications for leave to photograph from books in the Library, and 1,250 volumes were supplied to the applicants for this purpose.

V. Accessions.—General Library.—26,576 books and pamphlets have been added to the General Library in the course of the year. Of these, 6,214 were presented; 14,313 received by Copyright; 292 by Colonial Copyright; 659 by International Exchange; and 5,098 acquired by purchase.

68,975 parts of volumes (or separate numbers of magazines and other serial publications and of works in progress) have also been added to the General Library. Of these, 2,949 were presented; 44,091 received by Copyright; 273 by Colonial Copyright; 598 by International Exchange; and 21,064 acquired by purchase.

Maps.—108 atlases, 96 parts of atlases, and 1,599 maps in 6,480 sheets have been added to the collection during the year. Of these, 26 atlases, 31 parts of atlases, and 497 maps were presented; 11 atlases and 681 maps received by Copyright; 7 atlases and 16 maps by Colonial Copyright; and 64 atlases, 65 parts of atlases, and 405 maps acquired by purchase.

Music.—12,140 musical publications have been added to the collection during the year. Of these, 52 pieces were presented; 8,287 books and pieces, and 2,044 parts, received by Copyright; 522 pieces by Colonial Copyright; and 65 books and 1,170 parts acquired by purchase.

Newspapers.—The number of newspapers published in the United Kingdom, received under the provisions of the Copyright Act, during the year, was 3,439, comprising 234,428 single numbers. Of these newspapers, 1,213 were published in London and its suburbs; 1,669 in other parts of England and Wales and in the Channel Islands; 315 in Scotland; and 242 in Ireland. Five sets, comprising 613 single numbers, were received by Colonial Copyright; 260 sets, comprising 37,824 single numbers of Colonial and foreign newspapers, have been presented; and 80 sets, comprising 16 volumes and 14,045 single numbers of current Colonial and foreign newspapers, have been purchased.

Miscellaneous.—4,494 articles not included in the foregoing paragraphs have been received in the Department. These consist of Parliamentary papers, single sheets, and other miscellaneous items.

The total number of articles enumerated above, as having been received in the Department during the year, exclusive of newspapers, is 113,988.

Acquisitions of Special Interest.—One hundred and twenty-seven English books printed before 1640, and sixty-six Incunabula (books printed before the year 1501), have been added to the Library during the year 1909.

Among the most interesting of the English books are the following:—

Sixty-four "Year Books," contemporary law reports extending from the reign of Edward I. to that of Henry VIII., and printed by Richard Pynson, Robert Redman, William Middleton, Henry Smyth, Thomas Berthelet, and other printers of the sixteenth century. The total number of printed Year Books known to exist, including different issues and editions, is 443, and of these the British Museum now possesses 277.

"Promptuarium Parvulorum," Wynkyn de Worde, London, 1510.

Whitford, Richard, known as "the Wretch of Syon" (*i.e.*, Syon House, Isleworth): "the Pye or Tonne of the Lyfe of

Perfection." Robert Redman, London, 1532. In a contemporary English binding bearing the arms of Henry VIII. on the upper cover and of Catharine of Aragon on the under cover.]

"A boke newly translated out of Latyn called the folowig of Christe." William Middleton, London, about 1540. The only copy known of the first edition of Whitford's translation of the "Imitatio Christi."

"The last Wil and last Confession of Martyn Luther's faith," printed abroad, probably at Geneva, about 1543. A translation from the "Hauptartikel" of Martin Luther. The only other known copy is in the Bodleian Library.

The Book of Common Prayer. Richard Grafton, London, 1553. The only issue of the year 1553 in the British Museum.

Heliodorus, Bishop of Tricca; "An Aethiopian Historie," Englished by Thomas Underdowne. Henry Wykes, London, about 1569. The first edition.

Edwards, Richard: "The Paradyse of daynty deuises. Deuised and written for the most part, by Mr. Edwardes; the rest by sundry learned gentlemen, both of honor and worship" (Lord Vaux, Edward de Vere, Earl of Oxford, Jasper Heywood, and other Elizabethan poets): Henry Disle, London, 1578. The third edition. No other copy has been described.

"The Queenes Majesties Entertainment at Woodstock," Thomas Cadman, London, 1585. The "Comedy" with which this book ends is probably the work of George Gascoigne. Imperfect at the beginning. No other copy is known.

Mascall, Leonard: "First booke of Cattell." John Wolfe. London, 1591.

Greene Robert: "Greenes Groats-worth of Witte bought with a Million of Repentance." William Wright, London, 1592. First edition of the book containing the earliest allusion to Shakespeare. No other copy is recorded.

Drayton, Michael: "Piers Gaveston," 1595? The first edition of this poem was published in 1594. In a preface to the second authorised edition, 1596, Drayton alludes to a surreptitious issue recently published. The present is the only known copy of this surreptitious edition.

Daniel, Samuel: "The Queen's Arcadia. A pastorall tragocomedie presented to her Majestie and her Ladies by the Universitie of Oxford in Christs Church, in August last, 1605." G. Eld for Simon Waterson, 1606.

Butler, Charles: "The Feminine Monarchie, or a Treatise concerning bees and the due ordering of them." Joseph Barnes, Oxford, 1609.

Cruso, John: "Militarie Instructions for the Cavallerie." Cambridge, 1632. With plates.

Milton, John: "Paradise Lost." London, 1667. Six issues of the first edition of "Paradise Lost," each with slight variations, are known. The present copy is of the second of

these issues, and completes the set of all known varieties of the first edition in the Library. The existence of three other issues has been asserted, but cannot be verified.

“List of the Officers and Men employed in the sledging parties in search of the Erebus and Terror.” Printed on linen.
 “Advertisement. The Queen’s illuminated Magazine and North Cornwall Gazette. Published in Winter Quarters, Northumberland Sound, Arctic Regions.” Two sheets, printed on board H.M.S. Assistance during the expedition under the command of Sir E. Belcher to search for Sir John Franklin.

Among the foreign Incunabula and later works, the following are of special interest :—

Durandus, Gulielmus : “Rationale diuinorum officiorum.” Printed by Berthold Rodt, the first printer at Basel, about 1470.

Thomas Aquinas : “De articulis fidei.” Printed by Ulrich Zell, about 1470. *Presented by George Dunn, Esq.*

Bracciolini, Poggio : “Facetiæ.” Printed by Andreas Gallus, Ferrara, 1471.

“Ars Moriendi.” Printed by Günther Zainer, Augsburg, about 1472.

Hieronymus : “De Viris illustribus.” Printed by Günther Zainer, Augsburg, about 1472. This and the preceding tract, though also sold separately, were issued as part of the collection which contained the first edition of the *De Imitatione Christi*.

Duns, Joannes, Scotus : “Super quatuor libros Sententiarum.” Printed by Wendelin of Speier, Venice, 1472. *Presented by George Dunn, Esq.*

Aristotle : “De Anima” and “Metaphysica.” The first two books printed by Laurentius Canovius, the second printer at Padua, in 1472 and 1473.

Matheus Silvaticus : “Liber cibalis et medicalis Pandectarum,” Naples, 1474. Printed in the type used at Naples during the year 1474 by Arnold of Brussels.

Augustine, Saint : “De Contemplatione.” Printed at Strassburg by the printer of “Henricus Ariminensis,” about 1475.

“Litaniae siue Rogationes Ambrosianae.” Printed by the “Presbiter Archangelus Ungardus,” Milan, about 1475. This press has been hitherto unrepresented in the British Museum. The only other known copy of the work is in the Biblioteca Ambrosiana, Milan.

“Soliloquium Animæ.” Printed by Nicolaus Ketelaer and Gerard de Leempt, Utrecht, about 1475.

“Legenda Aurea.” Printed by Anton Koberger, Nuremberg, 1482.

Guillermus : “Postilla.” Printed by the “Printer of Jordanus de Quedlinburg,” Strassburg, 1482 to 1483 ; probably the first book from this press. *Presented by George Dunn, Esq.*

"Seelentrost." With woodcuts. Printed by Anton Sorg, Augsburg, 1483.

Falcuccijs, Nicolaus: "Sermones medicinales." Printed by Damianus de Confalonaris, Pavia, about 1484.

Marcus Gualterius: "Prognosticon." Printed by Andrea Portilia, Reggio d'Emilia, 1484.

Reuchlin, Johann: "Vocabularius breuiloquus." Printed by Michael Greyff, Reutlingen, about 1485.

"Stilus Curixæ Parliamenti." Printed by Heinrich Mayer, Toulouse, about 1485.

Boethius: "De Disciplina Scolariū." Printed by John of Westphalia, Louvain, 1485. *Presented by George Dunn, Esq.*

"Herbarius," German text with numerous woodcuts. Printed by Johann Petri, Passau, about 1488.

"Vocabularius Ex quo." Printed by Michael Greyff, Reutlingen, about 1488.

Bonaventura, Saint: "Vita Christi." Printed by Philippe Pigouchet, Paris, about 1489.

Alfonso de Palentia: "Universal Vocabulario en Latin y en Romance." Printed by Paulus de Colonia "cum suis sociis," Seville, 1490. Only two other copies of this book are known.

Aristotle: Ethics, translated into French by Nicholas Oresme. Printed by Antoine Verard, Paris, about 1490.

"La Fontaine de toutes Sciences du Philosophe Sydrach." With woodcuts. Printed by Antoine Verard, Paris, about 1490.

"Tractatus diuersorum Doctorum." Five legal treatises edited by Ludovicus de Bologninis. Printed by Nicolaus de Benedictis and Jacobus Suigus, Turin, 1490.

Odo, Bishop of Cambrai: "Expositio Canonis Missæ." Printed by Georg Mittelhus, Paris, 1492.

Breviary of the Use of Augsburg, Printed by Erhard Ratdolt, Augsburg, 1493.

"Pragmatica Sanctio." Printed by Jean de Vingle. Lyon, 1497. *Presented by George Dunn, Esq.*

Torre, Alfonso de la: "El tratado llamado Vision delectable de la Philosophia." With numerous woodcuts. Printed by Pedro Giraldi and Miguel de Planes, Valladolid, 1497. The only other known copy of this book is in the Royal Library, Madrid. The printers have not hitherto been represented in the British Museum.

"Evangelibuch." The Epistles and Gospels in German. With numerous woodcuts and initials. Printed by Johann Schoensperger, Augsburg, 1498.

Augustine, Saint: "Sermones ad Heremitas." Printed by Antoine Chappiel, Paris, 1500. A printer hitherto unrepresented in the British Museum by any fifteenth century book.

"Psalmi Davidis a G. Buchanano versibus expressi, nunc primum modulis IIII., VI., VII., et VIII. vocum a J. Servino decantati," Lyon, 1579. In a contemporary binding bearing the Royal Arms of Scotland on each cover. Jean Servin, the composer, was a musician in the service of James VI. No other copy known.

Monetus, Philibertus: "Schorus digestus." Lyon, 1619. The inscription on the fly-leaf sets forth that this copy was presented as a school prize to Louis Le Grange, of the College of La Flèche, in 1629. The book is the earliest example of a prize-book in the Library.

Donations.—Many valuable books have been presented to the Library during the past year. Among these are the following:—

Five Incunabula, already described. *Presented by George Dunn, Esq.*

A copy of John Stuart Mill "On Liberty," 1859. With MS. notes by John Ruskin. *Presented by Edward Tyas Cook, Esq.*

Catalogue of the Demotic Papyri in the John Rylands Library, Manchester. By F. Ll. Griffith. 3 vol. Catalogue of the Coptic Manuscripts in the John Rylands Library. By W. E. Crum. *Presented by the Governors of the John Rylands Library.*

"Journal d'une Femme de Cinquante Ans, 1778-1815. Publié par son arrière-petit-fils le Colonel Comte Aymar de Liedekerke Beaufort." Paris, 1907. No. 73 of 75 copies printed. *Presented by Comte Aymar de Liedekerke Beaufort.*

"Illustrated Catalogue of the Collection of Old Plate of J. Pierpont Morgan. By E. Alfred Jones." Privately printed, 1908. *Presented by J. Pierpont Morgan, Esq.*

"Catalogue of the Pictures in the Collection of the Earl of Radnor. By Helen Matilda, Countess of Radnor, and W. Barclay Squire." 2 vol. Privately printed, 1909. *Presented by the Earl of Radnor.*

"The Ashley Library. A Catalogue of Printed Books, Manuscripts and Autograph Letters collected by T. J. Wise." 2 vol. Privately printed, 1905-1908. *Presented by T. J. Wise, Esq.*

Maps.—Among the more important additions to the Collection of Maps are:—

One hundred and thirty maps from the collection of the late Lord Polwarth, dating from the sixteenth to the eighteenth centuries.

Seventy-five maps engraved by Philip Lea, 1680-1690.

A Map of the Battle of Waterloo, by Lieutenant Tyler. R. Ackerman, 1 August 1815.

Music.—The following are among the interesting additions made to the Musical Library this year :—

“Hymni solemniores ad Vespertinas horas canendi D. Petri Pontii Parmensis. Quattuor vocibus noviter impressis.” Venice, 1596.

“Partitura della Cetra spirituale à due, tre e quattro voci, di Oratio Scaletta.” Milan, 1606.

A collection of nine hundred and fifty libretti of Italian, French, and English operas, performed during the seventeenth and eighteenth centuries.

G. K. Fortescue.

DEPARTMENT OF MANUSCRIPTS.

1. *Catalogue of Additions*.—The descriptions of MSS. acquired in 1908 have been printed and have been incorporated in the Class Catalogue kept in the Students' Room.

All the MSS. acquired in 1909, viz. Additional 37773-37951 and Egerton 2876-2884, have been described and indexed. The descriptions have mostly been revised and are ready for press.

2. *Catalogue of Papyri*.—The Greek portion of Vol. IV. is now in print, and the Coptic portion is passing through the press.

3. *Catalogue of Royal MSS*.—Two hundred and eight MSS. have been indexed. The descriptions as far as 7 D. xxvi. have been sent to press, and sheets B-U have been printed off.

4. *Catalogue of Music*.—Vol. III. (Instrumental Music, etc.) has been printed off, bound, and issued.

5. *Catalogue of Romances*.—Sheets 2 B-2 R of Vol. III. have been printed. Nine MSS. have been described, and the descriptions of eighteen MSS. have been revised, for the same volume.

6. *Catalogue of early Additional and Egerton MSS*.—Egerton MSS. 18-30, 71-280 (excepting certain Irish MSS.) have been described and (excepting Egerton 213-269) indexed. Additional 4101-4200 have been described and indexed. Egerton MSS. 15-17 have been indexed.

7. *Catalogue of Charters*.—Additional Charters 50528-51003, acquired in 1903, have been described and indexed; and 39943-39995, acquired in 1893, have been re-arranged, more fully described, and indexed. All charters are now described and indexed down to the middle of the acquisitions of 1908.

The revision of the index-slips of entries relating to topography, religious houses, &c., for Vol. II. of the General Index of Charters has been completed, and slips of the 646 Stowe Charters have been written and incorporated.

8. *Catalogue of Seals*.—An index has been made, and the slips laid down, of detached seals cxlvii. 1-cliv. 82 (acquired in 1901-1909), and an index made of seals attached to Additional Charters 46401-46854, acquired in 1902.

9. *Binding*.—Two hundred and eighty Additional MSS. and eleven Egerton MSS. newly acquired, and one hundred and thirty-five MSS. of the old collections, have been bound, repaired, or lettered, together with one hundred and one Books of Reference, volumes of Facsimiles, and Catalogues.

10. *Verification.*—The entire collection of MSS. has been verified by comparison with the Shelf-Lists, together with a number of boxes of Additional Charters.

11. *Reproductions.*—A reduced collotype facsimile of Vol. IV. of the 5th cent. Greek Bible known as the Codex Alexandrinus, containing the New Testament and Clementine Epistles, has been printed and published. A second edition of the three Series of Reproductions from Illuminated MSS. published in 1907–8 is in preparation.

12. *Stamping, folioing, and placing.*—Two hundred and seventy-six Additional MSS., six Egerton MSS., and one hundred and thirty-six Books of Reference have been stamped, five MSS. of the old collections have been re-stamped, and 4496 Charters and Rolls have been examined and stamped where necessary, with a total number of 17,217 impressions; 2362 numbers were also impressed upon separate papers.

One hundred and ninety-seven MSS. have been folio'd, with a total of 38,775 folios.

Two hundred and eighty-nine newly-acquired MSS. have been placed, press-marked, and entered in the Hand- and Shelf-Lists. Six hundred and seven Charters and Rolls have been placed, and entered in the Inventories. Numbers have been written on 1316 Charters and Rolls. The re-labelling and re-arrangement of boxes of Additional Rolls in the South Room has been completed. One hundred and seventeen Seals and Casts have been put in boxes, placed, and entered in the Inventory.

A new Shelf-List of Select MSS. has been made. A new Stamping-Register of Additional Charters is in progress. A numerical list of the autographs on exhibition has been made.

13. *Books of Reference.*—One hundred and thirty volumes and parts have been received, catalogued, and placed. Further progress has been made with the preparation of the Catalogue.

14. *Consultation of MSS.*—33,637 MSS. and 2100 Charters and Seals have been consulted in the Students' Room, and one hundred and forty MSS. in the Reading Room. The number of Students has been 11,683.

Magna Charta was exhibited to 11,524 visitors.

15. *MSS. photographed.*—Seven hundred and thirty-seven MSS (including Papyri, Charters and Seals) were allowed to be photographed, with a total of 3343 photographs taken.

16. *Acquisitions.*—The number of Manuscripts and Documents, etc., acquired during the year has been:—

Additional MSS.	-	-	-	-	-	179
Egerton MSS.	-	-	-	-	-	9
Charters and Rolls	-	-	-	-	-	607
Detached Seals and Casts	-	-	-	-	-	116

The most important acquisition during the year was the collection of correspondence and papers of William Windham,

Secretary at War (with a seat in the Cabinet) 1794-1801, and Secretary of State for War 1806-7 (d. 1810), now bound in ninety-four volumes. It includes highly interesting letters of Burke, Fox, Pitt, Canning, the Duke of Portland, Earl Spencer, Lord Grenville, William Cobbett and other leading politicians; an extensive correspondence (18 volumes) with French Royalists, negotiations with whom were entrusted to Windham's management; eighteen volumes of general political and military correspondence; diaries and drafts of speeches in Parliament and elsewhere; and a large mass of public and private papers of all kinds. The collection was handed over by Windham's executors first to George Ellis and later to Thomas Amyot with a view to a biography, but neither of them completed the task. It was catalogued and advertised for public sale in June last, but private negotiations resulted in its previous purchase for the Museum intact.

The donations, in addition to those mentioned below, included a MS. copy of Edward Fitzgerald's translation of the *Rubáiyát* of Omar Khayyám, beautifully written by the late William Morris in 1872, and decorated by him with finely illuminated borders, the figures in which were partly designed by him and partly by Sir E. Burne-Jones, and were painted in by Mr. C. Fairfax Murray. This exquisite little volume was presented by Georgiana, Lady Burne-Jones. Special interest also attaches to the autographs of the late Oscar Wilde's plays, "Lady Windermere's Fan," "A Woman of no Importance," "An Ideal Husband" and "The Importance of being Earnest" and of his poem "The Sphinx," which were presented by Robert Ross, Esq.

Among public sales during the year, the most important was that of the second portion of Lord Amherst's library, which however, consisted chiefly of printed books. The MSS. purchased from it are noted in the list of acquisitions, other than those already noticed, which here follows:—

Leaf of a large Bible in Latin of St. Jerome's version, written in a fine uncial hand; probably from one of the two Bibles which Abbot Ceolfrid caused to be written at the same time as the Codex Amiatinus (*circ.* 700-715) and presented to his monasteries at Wearmouth and Jarrow. *Presented by the Rev. W. Greenwell, D.C.L., F.R.S., of Durham.*

S. Isidore de Summo Bono, and Alcuin de Sapientia, with four leaves, in an Irish hand, of biblical questions and answers; 12th cent. Belonged to Haughmond Abbey, co. Salop, and recently in the Amherst collection.

A collection of meditations and prayers in Latin and English, partly in verse, much of the English portion being also found in the well-known Vernon MS. at Oxford; early 15th cent. Originally belonged to John Northwode, a monk of Bordesley Abbey. From the Amherst collection.

Herbal of the Pseudo-Macer, translated into English, with an appendix and notes; first half of the 15th cent. From the Amherst collection.

"Poor Men's Mirror," by Reginald Pecock, Bishop of St. Asaph (1444) and Chichester (1450-1459), with other theological works in English, Pecock's work being apparently the unique copy; middle of the 15th cent. From the Amherst collection.

Translations by Richard Misyn of Richard Rolle's *De Emendatione Vitæ* and *Incendium Amoris*, with other theological works, chiefly translations, in English, including the *Vision of Juliana*, a recluse of Norwich, the "Perfeccion off the Sonnyys of God," the "Myrroure of symple saules," etc.; middle of the 15th cent. From the Burton-Constable and Amherst collections.

Promptorium Parvulorum and *Medulla Grammatica*; English-Latin and Latin-English Dictionaries; 15th cent. From the Heber, Phillipps and Amherst collections.

New Testament in Scots, adapted by Murdoch Nisbet, *circ.* 1520-1526, from Purvey's revised Wycliffite version, with additional prologues from Luther and Tyndale, etc. The unique *autograph* MS. From the Auchinleck and Amherst collections.

Letter (signed) from Louis XI. of France, as Dauphin, to his father Charles VII., reporting a descent of the English in the Bordelays and offering his services to repel them; Vienne, 25 Oct. [1452].

Register of the Council of Wales and the Marches, *circ.* 1586-1634, with a few entries as late as 1644, containing copies of instructions given from time to time to the Council, their orders to the court of the Marches, appointments of Presidents and other officers, etc.

Common-place book of Gilbert Frevile, of Bishop Middleham, co. Durham, containing miscellaneous contemporary historical and other matter; 1591-1622.

Letters to Lord Willoughby (*a*) from Sir W. Constable, on intrigues at Court, 1611; and (*b*) from Edw. Palavicino, with an account of the proceedings of the English fleet under Sir W. Peyton, supporting Venice in the Levant, 1618. *Presented by A. B. Cawdron, Esq., of Paris.*

Register of letters, warrants, etc., of Edward, Lord Zouche, as Lord Warden of the Cinque Ports, kept by his secretary Edward Nicholas, afterwards Secretary of State; 1618-1624.

Register of letters, warrants, etc., of George Villiers, Duke of Buckingham, as Lord High Admiral, kept by his secretary E. Nicholas; 1624-1627. Two volumes.

Register of letters, warrants, etc., of the same, as Lord Warden of the Cinque Ports, kept by his secretary E. Nicholas; 1624-1627.

Papers of Sir Hugh Cholmley, Royalist Governor of Scarborough, 1643-1645; including his autograph accounts of the battle of Marston Moor, and of the proceedings and execution

of Sir John Hotham and his son, a letter to him from Charles I., the answer of the Committee of both Kingdoms to his propositions for surrender, etc.

Original minutes of meetings of the Privy Council, with names of the members present, etc. Aug. 1661-Apr. 1667; in the hands of Sir E. Walker, Sir J. Nicholas and Sir R. Browne, Clerks to the Council.

Register of petitions to the king, with terms of reference in answer, etc.; Oct. 1661-Oct. 1662.

Register of royal warrants, letters, etc., to the Lord Lieutenant and other officials in Ireland; Oct. 1601-Oct. 1662.

List of military officers in commission, 1661; with copies of commissions, Sept. 1661-Oct. 1662.

“The Law of England relating to five of the Kings seales”: a much enlarged autograph revision by John Brydall of his *Jus Sigilli*, published in 1673.

Additional Instructions from the Secret Committee of the Scottish Council to the Committees of Council as to the treatment of the Covenanters [1684]. With five signatures.

Abstracts of “public revenues, taxes and moneys borrowed,” 1697-1700; with an account of sums applied to the public services, 1702-1704.

Establishment-lists of the Customs for England and Wales; 1762-1763. Two volumes.

Holograph letters of George III. to his confidential political agent John Robinson, M.P., Secretary to the Treasury, chiefly during the administration of Lord North, with drafts or copies of Robinson’s replies; 1772-1784. Three volumes. With a volume of accompts, etc., relating to the king’s private financial affairs, 1751-1782.

Letters of Admiral Sir W. Sidney Smith, 1795-1840, chiefly addressed to Admiral Sir R. Bickerton during the Egyptian campaign of 1801.

Letter from Lord Wellington to [Col. H. M.] Gordon, with severe reflexions on the “absolute impotence” of the Spanish leaders, etc.; Cartaxo, 5th Feb. 1811.

Letters addressed to Francis Place, the radical reformer, by “men of political and literary reputation” and others, chiefly on political questions; 1813-1852. Two volumes. Supplementary to the large Place collections already in the Museum. Presented by Dr. H. A. Miers, Principal of London University, and his brother, F. R. Miers, Esq.

“The Minutes of the Working Men’s Association,” 1836-1839, chiefly in the hand of William Lovett, the Chartist, first secretary. Four volumes. Presented by Maurice H. Truelove, Esq.

Relation of political events in France, etc., *circ.* 1585–1595, by an anonymous Italian writer. *Presented by Sir E. D. Laurence, Bart.*

“Adamo Caduto”: a sacred drama in Italian, in five Acts, by Serafino della Salandra, a Franciscan, which is alleged to have influenced Milton’s “Paradise Lost.” A transcript from a copy (supposed to be unique) of the printed edition (Cosenza, 1647) at Naples.

“Tiriel,” a poem by William Blake; *autograph*, with many corrections and cancelled lines, written *circ.* 1788–9.

“Historia de Gill Blas de Santillana,” an anonymous Spanish translation, 18th cent. Four volumes. *Presented by Francis J. Payne, Esq.*

Collections from records concerning the family of Bullen, by Mark Whittingham Bullen (d. 1909). Six volumes *Presented by Mrs. M. W. Bullen.*

Papers relating to the history of the Emerson family supplementary to Add. MS. 37,514. *Presented by P. H. Emerson, Esq.*

Genealogy of the family of Hardwicke, of Burcote House, showing its descent from the Aubignys, of St. Sauveur, by Herbert J. Hardwicke, M.D.; 1909. *Presented by the Compiler.*

Genealogical collections relating to the family of Underhill made by Will. Underhill (d. 1909), of Hove, co. Sussex. Four volumes. *Bequeathed by the Collector.*

Foreign correspondence of Sir Henry Ellis, K.H., Principal Librarian of the British Museum, chiefly on literary subjects; 1828–1839. *Presented by his grandson, H. J. Ellis, Esq.*

Letter from Marian Evans-Lewes (“George Eliot”) to A. F. D’Albert on her novel “Adam Bede” and her religious beliefs, etc.; 6 Dec. 1859.

Letter of John Gibson, the sculptor, to E. Rogers, banker, as to the statue of J. Huskisson, etc.; 1832. *Presented by Miss L. F. M. Preston.*

Letters and papers relating to the Rev. R. S. Hawker, vicar of Morwenstow, co. Cornwall, and to W. Maskell’s reviews of Gould’s published memoir of the same, including letters of Hawker himself and Card. Newman; 1855–1876.

Collection of alleged autographs of Shakespeare and others forged by W. H. Ireland and presented by him as specimens of what he describes as “my Shaksperian fabrications” to W. Till in 1834. *Presented by Margaret, Lady Tyler.*

Correspondence of William Maskell, vicar of St. Mary Church, near Torquay (1847–1850), chiefly on questions connected with the High Church movement and his secession to

the Church of Rome in 1850, and including letters of W. E. Gladstone, Bishop Phillpotts, Cardinals Newman and Manning, Sir J. T. Coleridge, Baron Alderson, Dr. Pusey, etc.; 1846-1885.

Letters of John Ruskin to T. Thornton, etc; 1882-1884. *Presented by the widow of T. Thornton, Esq.*

Letters of scientific men, including Sir Joseph Banks, W. Spence, T. E. Bowdich, P. M. Roget, Sir J. E. Smith, Sir J. Herschell, J. Lindley, Sir W. Jardine, and others; 1792-1873. *Presented by Spencer G. Perceval, Esq.*

Letter from Jean François Millet, the painter, to ——— Le Marquand, with artistic criticisms and remarks on his own work; Barbizon, 14 Jan. 1874.

Watercolour drawings by John Buckler, of Lacock, Malmesbury, and Fountains Abbeys, an ancient house at South Pether-ton, co. Som., and West Firle church, co. Suss.; 1808-1834.

"Time-books," with rough sketches and descriptions of churches and other buildings, of Thomas Rickman, architect, author of the "Styles of Architecture in England"; 1821-1837. Forty-five small volumes. With a volume of sepia drawings of churches, etc., 1802-1812. *Presented by his son, T. M. Rickman, Esq.*

Charters (36) relating to lands in cos. Chester, Essex, Hertford, Kent, Lincoln, etc.; 14th-16th centt.

An account of shipwrecks at or near Bude, co. Cornwall, since 1756, written by John Bray (*æt.* 88) in 1832 for the Rev. R. S. Hawker, with an appendix by W. Maskell brought down to 1875.

Transcript of the parish-register of Garrigill, co. Cumb., 1730-1812, and of the inscriptions on the gravestones, 1692-1905. *Presented by J. W. Robinson, Esq.*

Grant by W. de Arenis, Prior of St. James, Exeter, 1290; and another charter relating to Monmouth, 1380. *Presented by the Dean and Chapter of Worcester.*

Plans of Ancient Earthworks in Dorset, surveyed and drawn to scale by Edward Andrews Downman; 1896-1908.

Deeds, rentals, etc., relating to the manors of Henham and Spearing, More Hall in Harlow, Danbury, etc., co. Essex; 14th-18th centt. *Presented by J. L. Glasscock, Esq.*

Deeds (71) relating to lands in Essex and Middlesex; 14th-18th centt. *Presented by S. S. Baker, Esq.*

Deeds relating to Bristol, co. Glouc., Potterne, co. Wilts, etc.; *temp.* Edw. I.—1481.

Deeds (118) relating to lands in cos. Kent, Norfolk, Salop, Southampton, Suffolk, etc.; 14th-16th centt.

*Transcript of the parish-register of Eynsford, co. Kent, 1538-1837. *Presented by Elliott D. Till, Esq.*

Assessment for the repair of Godmersham church, co. Kent ; 1618. *Presented by the Rev. W. J. Couper, of Glasgow.*

Court-rolls (185) of the manor of Long Bennington, co. Linc., belonging to the Duchy of Lancaster ; 1399-1756.

Customs of London, apparently collected *temp.* Edw. III. for the burgesses of King's Lynn, co. Norfolk (who enjoyed by charter of John the same franchises as Oxford and consequently of London), and supplemented with ordinances, etc., relating to Lynn of various dates from 1340 to 1406. Belonged to Thomas Martin of Palgrave.

Deeds (24) relating to lands in London, Middlesex, and various counties, early 14th-17th centt., one with a fine seal of arms of Sir Ralph Cromwell.

Deeds (99) relating to lands in Middlesex, Surrey, Kent, etc. ; 16th-17th centt. *Presented by H. M. Gibbs, Esq.*

Deeds (6) relating to Wroxton Priory, co. Oxon., etc. ; 13th-17th centt. *Presented by Mr. A. P. Ready.*

Depositions, etc., in a case of alleged witchcraft at Alloa, Clackmannanshire ; 1659.

"Arte de Lengua de Maynas" : a grammar and vocabulary, with the Doctrina Christiana, in the language of the Maynas Indians near Quito in Ecuador, written about 1750, apparently for the use of the missionary Fray Eusebio Arias.

Duets, with a bass for harpsichord, in score, by Agostino Steffani ; early 18th cent.

"The Lily of Killarney" : opera by Julius Benedict in full score. Transcribed by John Cornwall in 1898-1900.

George F. Warner.

DEPARTMENT OF ORIENTAL PRINTED BOOKS AND
MANUSCRIPTS.

Cataloguing and Arrangement.—The numbers of the sheets of the various Oriental Catalogues sent to press in 1909 are :—Bengali Books, 16 sheets ; Hindustani Books, 5 sheets ; Tamil Books, 18 sheets.

The numbers of Titles written for the Catalogues are :—Arabic, 49 ; Assamese, 19 ; Avestan and Old Persian, 11 ; Babylonian, 1 ; Bengali, 619 ; Burmese and cognate dialects, 113 ; Chinese, 721 ; Coptic, 5 ; Ethiopic, 8 ; Gujarati, 116 ; Hebrew, 225 ; Hindi, 130 ; Hindustani, 181 ; Javanese, 2 ; Kanarese, 334 ; Kashmiri, 5 ; Kui, 2 ; Lahoo, 1 ; Malay, 12 ; Malayalam, 39 ; Maltese, 3 ; Marathi, 108 ; Mongol, 2 ; Nubian, 4 ; Oriya, 35 ; Pali, 98 ; Panjabi, 13 ; Peguan, 3 ; Persian, 711 ; Prakrit, 5 ; Pushtu, 4 ; Sanskrit, 693 ; Santali, 2 ; Siamese, 4 ; Sindhi, 8 ; Sinhalese, 88 ; Syriac, 10 ; Tamil, 488 ; Telugu, 662 ; Tibetan, 7 ; Toda, 3 ; Turkish, 29.

124 Arabic MSS., 75 Armenian MSS., and 53 Hebrew MSS. have been fully catalogued.

Short descriptions of 511 MSS. have been entered in the Descriptive List, the Register, and the Classed Inventory. In addition, a separate inventory of the entire Nevill collection of Sinhalese, Pali and other MSS. has been prepared, comprising some 2322 entries, with brief descriptions.

463 MSS. (ff. 59,637) have been folioed.

Publications.—A Supplementary Catalogue of Hindustani Books, a Catalogue of Tamil Books, and fasc. i. of vol. iii. of the Catalogue of Hebrew MSS. have been issued.

Binding.—The numbers of Printed Books and MSS. sent to the binders are :—Arabic and Persian Books, 157 ; Chinese Books, 191 ; Hebrew Books, 90 ; Mongol Books, 32 ; Sanskrit and other Indian Books, 193 ; Tibetan Books, 72 ; MSS., 474.

Students.—The number of visits of Students working in the Students' Room attached to the Department during the year is 2678. The number of Oriental Printed Books consulted in the Department is 7641, and of those used in the Reading Room, 2410. The number of Oriental MSS. consulted in the Students' Room is 5345.

Photography.—Eighty-one applications have been made to photograph books and MSS.

Additions.—The number of volumes and pamphlets added to the Department during the year is 2599, of which 2133 are Printed Books and 412 are MSS.

Of the Printed Books, 340 were bought; 1,527 were received under the India Copyright Act; 121 were received under the Colonial Copyright Act; and 145 were presented. Of the MSS., 71 were bought and 341 presented.

The MSS. are :—

Arabic	-	-	-	-	-	-	-	-	-	33
Arabic and Persian	-	-	-	-	-	-	-	-	-	2
Arabic, Persian and Turkish	-	-	-	-	-	-	-	-	-	3
Arabic and Spanish	-	-	-	-	-	-	-	-	-	1
Armenian	-	-	-	-	-	-	-	-	-	7
Chinese	-	-	-	-	-	-	-	-	-	21
Chinese, Manchu, Mongol, Tibetan, and Turki	-	-	-	-	-	-	-	-	-	1
Chinese and Mongol	-	-	-	-	-	-	-	-	-	2
Coptic	-	-	-	-	-	-	-	-	-	12
English	-	-	-	-	-	-	-	-	-	1
Hebrew	-	-	-	-	-	-	-	-	-	2
Hindi and Persian	-	-	-	-	-	-	-	-	-	1
Karshuni	-	-	-	-	-	-	-	-	-	1
Mongol	-	-	-	-	-	-	-	-	-	2
Persian	-	-	-	-	-	-	-	-	-	51
Persian and Turkish	-	-	-	-	-	-	-	-	-	11
Turkish	-	-	-	-	-	-	-	-	-	269
Turkish and Arabic	-	-	-	-	-	-	-	-	-	1
Turkish and French	-	-	-	-	-	-	-	-	-	1
Turkish and Persian	-	-	-	-	-	-	-	-	-	2
Turkish, Persian and French	-	-	-	-	-	-	-	-	-	1
Zend	-	-	-	-	-	-	-	-	-	1

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The most important acquisitions are :—

Arabic MSS.—1. *Al-Şiḫāḫ fi al-lughah*, the lexicon of al-Jauharī. Vol. VII. Copied A.H. 551 (A.D. 1156), and critically revised.

2. *Al-Maḫṣad al-asna*, a treatise on the names of God, by Abu Ḥāmid al-Ghazzālī (died A.H. 505). Copied A.H. 595 (A.D. 1199).

3. *The Makāmāt*, or “Assemblies” of Ḥarīrī, a literary miscellany. Copied A.H. 563 (A.D. 1168). A fine copy, and of exceptional age.

4. *Sharḥ Majistī*, an abridged recension, here ascribed to Muḥ. b. Muḥ. Abu Naṣr al-Farābī, of the *Almagest* or system of astronomy of Ptolemy. Copied A.H. 628 (A.D. 1231). An extremely rare, if not unique, recension.

5. A handbook of police regulations, by Muḥ. b. Muḥ. b. Aḥmad (Ibn al-Ikhwah). Copied A.H. 771 (A.D. 1370). No other copy appears to be known.

6. *Ṭalibat al-ṭalabah*, a dictionary of the legal terms of Ḥanafī jurisprudence, by Najm al-Dīn 'Umar b. Muḥ. al-Nasafī. 14th century copy.

7. *Al-Jāmi' al-wajiz fi al-fatawī*, a collection of legal decisions, by Ḥāfiẓ al-Dīn Muḥ. b. Muḥ. 'Imād al-Dīn al-Kardarī. Copied A.H. 880 (A.D. 1475), in a fine script. No other MS. appears to be on record.

8. *Al-Darī'ah ila makārim al-sharī'ah*, a treatise on ethics by Abu al-Kāsim al-Ḥasan b. Muḥ. b. al-Mufaḍḍal al-Rāghib al-Iṣfahānī. 15th century copy.

9. *Al-Mukarrar fī mā tawāthar min al-ḳirā'at al-sab'*, a rare and important work on the seven principal textual readings of the Koran, by 'Umar b. Kāsim al-Mukri' al-Nashshār. Copied A.H. 918 (A.D. 1512), in a calligraphic hand.

10. *Ya'ūd al-shabāb*, an anthology of poems by authors of the 6th century A.H., with biographies, abridged by 'Alī b. Muḥ. al-Rūmī (al-Riḍā'ī) from the *Kharīdat al-ḳaṣr* of 'Imād al-Dīn al-Iṣfahānī. 17th or 18th century copy. No other exemplar appears to be known.

Armenian MSS.—1. Canons of the Apostles, Doctors, and Councils of the Church.

2. A collection of philosophical, ethical, and religious works. A.E. 1165.

3. Histories of martyrdoms. A.E. 1260.

4. History of Jerusalem. A.E. 1293.

5. Popular poems of John of Telguran, Naghash, etc. A.E. 1035.

6. A Dictionary of classical Armenian.

Chinese MSS.—1. *Ching tē yao*, a treatise on the art of pottery. 2 *pén*.

2. *Hui chiang t'ung chih*, a description of Muhammadan countries. 12 *pén* in 2 *t'ao*.

3. *Fa hai kuan lan*, a treatise on Buddhist doctrine. 2 *pén*.

4. *Yü shuo*, a treatise on jade. 1 *pén*. 1890.

5. *Ch'in ting mêng ku yüan liu*, an account of the origins of the Mongols. 8 *pén* in 1 *t'ao*. 1777.

6. *Yü chih ta tsang yü chia shih ssü i ching*, a scripture of the Yoga sect of Buddhism. 1 *pén*.

7. A collection of Ili vocabularies. 4 *pén* in 1 *t'ao*.

8. Memorials and Imperial rescripts of the reign of Hsien Fêng (1851-61). 2 pts.

9. Chao hsien t'u, 26 coloured maps of districts of Korea, with names in Chinese.

10. Tung shih kang mu, a compendium of Korean history. 20 vols.

Chinese Printed Books.—1. Chiang hsi t'ung chih, a topography and history of Kiangsi. 120 vols. 1880.

2. Ch'ien ch'io lei shu, a general encyclopædia. 120 *chüan*. 1632.

3. Ch'in ting huang yü t'u chih, an Imperial geography of Turkestan. 24 vols. 1762.

4. Ch'in ting jih hsia chiu wén k'ao, an archæological description of Peking and its environs, by an Imperial Commission. 160 *chüan*. 1774.

5. Ch'in ting k'uo êrh k'a chi lüeh, documents of State and other papers relating to the Gurkha War of 1790, issued by Imperial order. 58 *chüan*.

6. K'ai fêng fu chih, a gazette of the Prefecture of K'aifêng. 10 vols. 1695.

7. Ku chin ch'ien lüeh, a treatise on coins. 18 vols. 1876.

8. Ch'üan pu t'ung chih, a treatise on coins, with illustrations. 32 vols. 1872.

9. P'ei wên chai shu hua p'u, a repertory of the arts of painting and writing, with biographies of famous painters and calligraphers; compiled by an Imperial Commission. 100 *chüan*. 1708.

10. Yü hai, an encyclopædia, compiled in the 13th century by Wang Ying-lin. 204 *chüan*.

11. Li shih t'i kang, a history of Korea. 14 vols.

12. Shih chi p'ing lin, the "Historical Record" of Ssü-ma Chien. Korean edition. 33 vols. 1576.

13. Kuo ch'ao pao chien, the Royal Annals of Korea. 26 vols. (82 *chüan*). 1848.

14. Chin chuan i kuei, an illustrated treatise on the ceremonies of the Court of Korea. 4 vols. 1829.

15. Wu ching po p'ien, the Five Classics; a fine folio edition, printed in large black letter. 5 vols.

16. Chün ku lu chin wên, a collection of ancient inscriptions on metal, with decipherment. 3 *chüan*. 1895.

17. Shih shih yüan liu, scenes from the life of Buddha, with woodcuts on every page. 1486.

18. Ch'in ting yüan chien lei han, a general encyclopædia, compiled by an Imperial Commission. 10 vols. 1883.

Coptic MSS.—A collection of Coptic MSS. in remarkably perfect preservation, comprising :—

1. The Encomium of Theodosius of Alexandria upon St. Michael. A.D. 987.

2. The Martyrdom of Victor, son of Romanus, and Pope Celestine's Encomium on Victor. A.D. 981. Vellum.

3. Chrysostom's Encomium on the Archangel Raphael. A.D. 956. Vellum.

4. Chrysostom's Discourse on John the Baptist, and Pachomius's Exhortation to a brother. A.D. 986. Vellum.

5. The Discourse of Timothy of Alexandria on Abbaton, the angel of death. A.D. 982. Vellum.

6. The Mysteries of John the Baptist, and a biography of Pesynthius of Coptos. A.D. 1006.

7. A life of the anchorite Onnophrius, and a sermon on Christmas by Demetrius of Antioch.

8. Part of a Discourse by Celestine of Rome on the Archangel Gabriel. A.D. 989. Vellum.

9. The history of Aaron the Monk; a Discourse on the Archangel Michael, by Timothy of Alexandria; the prayer of Athanasius at death; and the Vision of St. John. A.D. 992.

10. An Encomium by Theodore of Antioch on the martyr Theodore Anatoleus. Dated, in a reader's note, A.D. 995. Vellum.

Hebrew Printed Books.—1. The Tractate Niddah of the Babylonian Talmud. Soncino, 1489. Only 6 other copies are known to exist.

Persian MSS.—1. *Ḳışaṣ al-anbiyā*, select legends from Ṭabari's history. 13th or 14th century copy.

2. *Ẓafar-nāmah i Nāsiri*, a poetical account of the Persian conquest of Herat in 1857, composed in 1859. No other copy appears to be recorded.

3. *Dīvān* or poems of Muḥsin. Copied A.H. 1245 (A.D. 1829). No other copy appears to be recorded.

Turkish MSS.—1. A collection of 259 Turkish MSS., chiefly works of poetry. These volumes form the larger part of the collection, consisting of 325 Oriental MSS., which was bequeathed to the British Museum by the late Elias J. W. Gibb, Esq.

2. *Ka'ba nāmah*, a versified account of the legendary building of the Ka'ba at Mecca by Abraham, preceded by a metrical account of the latter's descendants of the line of Ishmael by Ghubarī. Copied A.H. 963 (A.D. 1556). No other copy appears to be on record.

3. *Naṣihat nāmah*, a work on ethics by Sinān al-Dīn Yūsuf b. Khizr (Khawājah Pāshā). Copied A.H. 997 (A.D. 1588). Apparently no other copy is on record.

L. D. Barnett.

DEPARTMENT OF PRINTS AND DRAWINGS.

I.—*Arrangement and Cataloguing, etc.*

A portion of the mezzotints exhibited in the public gallery has been withdrawn, and an exhibition of drawings, engravings, and woodcuts by Albrecht Dürer has been arranged in its place.

The collection of woodcuts by H. Burgkmair has been re-arranged for mounting.

The collection of lithographs by C. H. Shannon has been arranged, in catalogue order, in a portfolio.

A series of drawings by Sir George Scharf has been arranged in an album.

The woodcuts by T. Sturge Moore and those by Lucien Pissarro have been arranged in albums.

Two hundred and ninety-eight drawings and eight hundred and seventy-two prints, recently acquired, have been incorporated with the collections to which they severally belong.

All books of prints and books of reference recently acquired have been catalogued, labelled, and placed.

The preparation of Vol. ii. of the catalogue of Engraved British Portraits has been continued,

All engraved British Portraits recently acquired, belonging to classes I.-VI., have been catalogued.

The preparation of a critical and descriptive catalogue of the collection of Japanese Woodcuts has been continued.

The preparation of vol. ii. of the catalogue of Early German and Flemish Woodcuts has been continued, and the proofs of Division C. have been corrected and returned to the printers.

The revision of the proofs of the catalogue of Early Italian Engravings has been completed, and an appendix of water-marks and indexes has been prepared.

The work of revising the indexes of artists, with the aid of Thieme and Becker's new lexicon, has been continued to the end of Vol. ii. of that work.

The prints by Whistler possessed by the Department have been marked off in Mansfield's Catalogue of Whistler's Works.

Titles have been written for articles in the "Jahrbuch der Preussischen Kunstsammlungen," "Zeitschrift für Bildende Kunst," and other periodicals, 1907, for the catalogues of books of reference.

The work of writing slips for the titles of prints after English Masters, with a view to the preparation of a subject index to that division of the collection, has been continued.

The preparation of slips for an index to the collection of photographs presented by the National Photographic Record has been continued.

The work of arranging in alphabetical order the slips written for the Banks collection of trade-cards, admission tickets, etc. has been completed; and the work of examining the Franks collection of similar prints, and removing those of which there are duplicates in the Banks collection, has been begun.

The preparation of a complete classified index of the works of English artists represented in the Department has been begun.

An index to the artists represented in the collection of Japanese Woodcuts has been prepared.

Additions and corrections to the indexes of artists, rendered necessary by recent acquisitions and re-arrangements, have been carried out.

Twenty-five volumes containing book-plates, belonging to the Franks collection, have been labelled and placed.

The transcription for press of the catalogues of British Portraits and Japanese Woodcuts has been continued.

All the books of prints in the cases contained in the Keeper's, Assistant-Keeper's, and Assistants' rooms have been compared with the Library Catalogue, and notes have been given to an Assistant in the Department of Printed Books of the books or editions which are wanting in the Library Catalogue.

A collection of duplicate engravings in 81 frames, lent to the Macclesfield Art Museum, has been returned in good order.

Registration.—One thousand nine hundred and thirty-three items have been entered in the Register of Acquisitions.

Stamping and Mounting.—Three thousand nine hundred and forty-two prints, drawings, etc., recently acquired, have been impressed with the departmental stamp and references to the Register.

Four thousand and forty-four ordinary mezzotints belonging to the Cheylesmore Collection have been stamped and fixed in wrappers for their better preservation.

Two hundred miscellaneous drawings have been prepared and mounted on sunk mounts, and two hundred and fifty prints have been mounted either in sunk mounts or in the ordinary manner.

Three hundred and thirteen Early Italian prints have been temporarily removed from their mounts and examined for watermarks, and two hundred and sixty-eight have been re-mounted on sunk mounts.

The prints in the large volume of the Burney Collection of theatrical portraits have been removed for mounting.

The work of affixing permanent labels to the cases in which the Schreiber Collection of Playing Cards is preserved has been completed.

Twenty-seven miscellaneous drawings, thirty-six drawings in tempera by Tintoretto, and forty-one Japanese prints, all requiring special treatment, have been repaired and mounted.

Students.—The total number of visitors admitted to the Print Room during the year ending 31 December 1909 was 9,343.

Photographing.—Four hundred and five applications were made for leave to photograph objects in the collection, and 2,600 photographs were taken.

II.—*Additions.*

The total number of prints, drawings, etc., acquired during the year was three thousand three hundred and seventy.

ITALIAN SCHOOL.

Drawings.

Anon. XIV. Century. Two holy women supporting the Virgin in their arms; silver-point on violet prepared paper. From the Cassano Serra Collection.

School of Giovanni Bellini. The Dead Christ; pen and bistre.

Canale, Antonio. Interior of a building; pen and bistre, with Indian ink wash. From the Cassano Serra Collection.

Canta Gallina, Remigio. Two landscapes; brush-drawing in bistre, heightened with white.

Guardi, Francesco. Woman with a spindle; pen and sepia.

Tiepolo, Giovanni Battista. Neptune with trident; pen and bistre, with bistre wash.

Viti, Timoteo (attributed to). Study of four figures, a man and three women; pen and ink. From the Antaldi Collection. Presented by W. C. Alexander, Esq.

Engravings.

Montagna, Benedetto. Man seated by a palm-tree (B. 28). From the Enzenberg and Lanna Collections.

Etchings.

Piranesi, Laura. Veduta del Tempio di Bacco. Presented by H. R. M. Howard, Esq.

Woodcuts.

Anon. Il Duca Ottone. Undescribed. From the Lanna Collection.

Florentine School. St. Antoninus confessing a young man. From a rare book, 1493. From the Holtrop Collection. *Presented by Messrs. Obach and Co.*

Andreani, Andrea. The Triumph of Faith, after Titian; first state, complete.

Boldrini, Niccolo. Child driving a calf. Impression from the outline block.

Scolari, Giuseppe. Ecce Homo (Passavant VI., 229, 32.)

GERMAN SCHOOL.

Drawings.

Anon. Imitator of Albrecht Dürer. Landscape, hills and woods; water-colours.

Aldorfer, Albrecht. St. Barbara holding a chalice; pen and ink, heightened with white, on dark brown ground.

Holbein, Hans II. (after). St. Pantalus, Patron of Basle; pen and Indian ink, with Indian ink wash. Copy, dated 1526, of the original drawing at Basle.

Huber, Wolfgang. Landscape with wide water and promontories; pen and ink, partly tinted in water-colours.—Sheet from a sketch-book, with studies of landscape on back and front, dated 1536; pen and ink.

Leu, Hans II. The Virgin Mary in her girlhood weaving in the Temple and attended by angels, signed and dated 1510; pen and ink. From the Cassano Serra Collection.

Schäufelein, Hans Leonhard. A Bishop presenting a book to the Pope; pen and ink. From the Scheikévitch Collection.

Etchings.

Nolde, Emil. Woman sewing.—Boats in a harbour.—Sailing boats.—Sailing boats becalmed.—Church above the river at Flensburg. Old Church at Soest.—Dancing Saloon.

Struck, Hermann. Fifteen portraits, figure studies and landscapes. *Presented by the Artist.*

Engravings.

Aldegrevor, Heinrich. The Virgin and Child (B. 53).—The Virgin and Child (B. 54).—Hannibal and Scipio (B. 71).—Hercules and the Nemean Lion (B. 97). Ornament with two Dolphins (B. 192).—Ornament with foliage (B. 193).—Design for a sheath (B. 215), and the companion design (B. 216).—Sheath with the Whore of Babylon (B. 226).—Upright

ornament, dated 1529 (B. 233).—Ornament with two nude boys, dated 1532 (B. 239).—Ornament with foliage (B. 289). All from the Lanna Collection.

Altdorfer, Albrecht. Arion and a Nereid (B. 39).—Leaf ornament (B. 65).—Cup ornament with shells (B. 81).—Man playing the bass-viol; a very rare plate. All from the Lanna Collection.

Beham, Barthel. Cleopatra, second state (B. 12).—Sleeping Child and Three Skulls (B. 27).—Naked Child and leaf-ornament (B. 51).—Child blowing a horn (B. 52).—Coat of arms with a Cock (B. 53).—Lucretia stabbing herself (Pass. 68*a*).—Ornament with a winged Monster (Pass. 17).—Ornament with a torso and two Children (Pass. 78*a*).—Ornament with two genii holding festoons attached to a vase. All from the Lanna Collection.

Beham, Hans Sebald. SS. Andrew and Thomas (B. 39).—Four plates from a set of the Apostles (B. 55–58).—The Rape of Helen; third state (B. 70).—Cimon and Pero; first state (B. 74).—Mutius Scaevola (B. 81).—Triton and Nereid; first state (B. 86). The Peasants behind the hedge; first state (B. 163).—The three Soldiers and dog; second state (B. 196).—Peasants dancing; from a set of the Months. All, except the last, from the Lanna Collection.

Binck, Jakob. The Massacre of the Innocents (B. 10).—Death and the Soldier (B. 51).—Francis I. (B. 89).—Claude of France (B. 90).—Child and Dog (Pass. 120).—Panel of ornament (Pass. 126*b*).—The Holy Family.—Pride (B. 54).—Soldier embracing a woman, after Baldung; first state (Pass. 116). All, except the last two, from the Lanna Collection.

Brosamer, Hans. Christ in the Temple (B. 4).—The Crucifixion (B. 5).—Adam and Eve (Pass. 23).—Christ sleeping during the Storm (Pass. 24). From the Lanna Collection.

Brunn, Franz. Set of Christ and the Apostles.—Set of the Months.—The Expulsion from Paradise. From the Lanna Collection.

Burgkmair, Hans I. Mercury and Venus (B. 1). From the Lanna Collection.

Hirschvogel, Augustin. Portrait of the artist (B. 40). Landscape with ruins (B. 70). From the Lanna Collection.

Jenichen, Balthasar. A lute player. Undescribed. From the Lanna Collection.

Meckenem, Israhel van. St. Roch (B. 111); first state From the Lanna Collection.

Monogrammist H. L. Beheading of St. Dorothy (B. 4).—St. Peter (Pass. 15).—St. George (Pass. 17).—The Ten Thousand Martyrs (Pass. 21).—St. George and the Dragon; undescribed. From the Lanna Collection.

Monogrammist H.M. The Courtesan (Pass. 13). From the Lanna Collection.

Monogrammist H. W. (Hans von Windsheim?). Christ on the Cross, between the Virgin and St. John (Pass. 75). One of the only two impressions known.

Monogrammist I. B. Oblong panel of ornament (B. 46). From the Lanna Collection.

Monogrammist N. S. Woman holding a pink (P. 3). From the Lanna Collection.

Monogrammist R. B. Cimon and Pero, after H. S. Beham (P. 15). From the Lanna Collection.

Woodcuts.

Anon, 15th century. The beheading of St. John the Baptist; coloured. From the Lanna Collection.

Aldorfer, Albrecht. The beautiful Virgin of Ratisbon. Printed in colours from five blocks (B. 51). From the Copenhath and Lanna Collections. This is one of the rarest and most important of early German colour prints.

Amman, Jost. Portrait of Lonicerus. Undescribed. From the Schreiber Collection.

Beham, Hans Sebald. The Patriarch Kenan and his wife and children.

Brosamer, Hans. David kneeling, Undescribed.

Burgkmair, Hans. The Virgin and Child (B. 7).—Twenty-one illustrations to the Apocalypse, from the German New Testament published by S. Otmar, 1523. From the Schreiber Collection.—Samson and the Lion (B. 2).—Fortitude (B. 52).—Christ on the Cross with the Virgin Mary and Moses on either side. The last three from the Lanna Collection.

Cranach, Lucas I. Christ on the Cross, between the Virgin and St. John. From the Schreiber Collection.—St. Christopher (B. 58); chiaroscuro, with the date 1506.—The Trinity. The last two from the Lanna Collection. The Entombment, from the Passion of 1509 (B. 19).

Cranach, Lucas I. (Attributed to). Portrait of Frederick III., 1524.

Cranach, Lucas I., School of. Christ blessing little Children; chiaroscuro.—The Elector John Frederick. Both from the Lanna Collection.

Cranach, Lucas II. Duke John William of Saxony. From the Schreiber Collection.

Deckinger, Hieronymus. Woodcut issued in commemoration of Caspar Schwenkfeld, 1562.

Dürer, School of. Christ on the Cross. From the Schreiber Collection.—The Man of Sorrows; chiaroscuro from two blocks. From the Lanna Collection. The Virgin and Child with St. Anne; first state.

Dürer, after. Samson and the Lion; the very rare contemporary copy without the monogram. From the Lanna Collection.—The Men's Bath; rare contemporary copy without the monogram. From Lord Tweedmouth's Collection. *Presented by Junius S. Morgan, Esq.*

Gerung, Matthias. The Adoration of the Magi; four sheets. From the Lanna Collection.

Holbein, Ambrosius, attributed to. Charles V. From the Schreiber Collection.

Huber, Wolfgang. The Crucifixion. No other impression of this woodcut is known to exist. From the Schreiber Collection.

Kandel, David. Portrait of Hieronymus Tragus. From the Lanna Collection.

Monogrammist D. S. The Virgin and Child with St. Anne (Pass. 1); early impression. From the Lanna Collection. *Presented by Max Rosenheim, Esq.*

Nuremberg School, about 1505. Twenty-two subjects from the Gospels, of which nine are from a book of 1534. From the Schreiber Collection.

Schäufelein, Hans. The Virgin and Joseph (B. 11).

Solis, Virgil. Portrait of the Elector Palatine Otto Heinrich. *Presented by Messrs. Obach & Co.*

Springinkle, Hans. The First Horoscope of Stabius; the rare original edition of 1512. With reprints (1781) of the second and third horoscopes.—SS. Bartholomew and Matthew (B. 53).—SS. Andrew and Matthias (B. 54). All from the Lanna Collection. The Patron Saints of Chur; with the kneeling bishop of Chur; frontispiece of the Chur Breviary, 1520.

Weiditz, Hans. St. Catherine.

Wurm, Hans. Lovers at the door of a house; printed in black on paper with a brown ground, heightened with white. The only impression known. From the Liphart and Lanna Collections.

The collection of German woodcuts was also enriched by the gift of eleven early prints from the Holtrop collection, and five printers' marks or devices; *presented by Max Rosenheim, Esq.*

SCHOOL OF THE NETHERLANDS.

Drawings.

Brueghel, Pieter I. Landscape with St. Jerome; pen and ink.—Landscape with fortified town and castle on the slopes of a mountain range, dated 1553; pen and bistre.

Coques, Gonzales. Family group; black chalk. From the Hamal Collection.

Engelbrechtsen, Cornelis. Augustus and the Tiburtine Sibyl; pen and ink, heightened with white, on prepared ground.

Gheyn, Jacob de. Landscape with mule-track leading to a fortress at the foot of a cliff, dated 1600; pen and bistre. From the Lankrink Collection.

Jordaens, Jacob. A rich man giving alms to a poor family; body-colours.

Scorel, Jan van. Two landscape studies of mountainous scenery; pen and ink; signed with monogram.

Sieberechts, Jan. Study of a felled tree on a river bank. Watercolours.

Teniers, David II. Monkeys dressed as artists and connoisseurs. Pen and sepia, with sepia wash.

Engravings.

The Master with the Crab. Christ in the act of blessing (P. iii. 19. 40).

The Master S. Intercession for Souls in Purgatory (P. iii. 78. 261).

Claes, Allart. Amnon and Tamar (B. 3).

David and Bathsheba (B. 9).—Vignette with two Tritons (B. 44).—Combat of five Warriors (P. iii. 43, 117).—St. Catherine.—The Ecstasy of Mary Magdalen.—Panel of ornament.

Woodcuts.

Anon. Early XVI. century. The Trinity with SS. Crispin and Crispinian (Schr. 2441). Early impression.

Cornelis van Oostanen, Jacob. St. James the Greater; undescribed. — The Miracle of Amsterdam; from Alardus Amstelredamus, Ritus edendi paschalis Agni, 1523(4), Coloured impression.—Portrait of Alardus Amstelredamus, originally used for the same book.

Swart van Groningen, Jan. The Preaching of St. John the Baptist.

FRENCH SCHOOL.

Etchings.

Bracquemond, Félix. Unpublished portrait of Auguste Comte, 1855.

Chahine, Edgar. La Vallée fertile; and Rio Ca Foscari, Venice. Both from "Impressions d'Italie."

Leheutre, Gustave. La Rue des Petits-Gars, à Tours.

Lhermitte, Léon. Un Moulin en Bretagne. Un Vieux de la Vieille. La Vendange. L'Épicerie de Village.

Prints arranged to illustrate the Works of Masters.

Chéry, Philippe. Andromaque.—Pylade.—Filles Israélites.

Three plates engraved in aquatint by P. M. Alix and printed in colours.

ENGLISH SCHOOL.

Drawings.

Barker, Thomas, of Bath. Twelve studies of landscape and rustic figures; watercolour or pen and ink, with and without bistre wash.

Burne-Jones, Sir Edward. "The Flower Book," containing thirty-eight drawings in watercolours heightened and enriched with gold, and four unfinished pencil outlines. The designs, composed as roundels, are symbolical or fanciful illustrations of the names of flowers.

Colebrooke, R. H. View of the city of Benares; watercolour. Plassey House in 1794; watercolour. *Presented by Dr. Law Adam.*

Copley, John Singleton, R.A. Sketch for equestrian portrait of Lord Heathfield. Black and white chalk on blue paper.

Denning, Stephen Poyntz. Portrait of Robert Humphrey Giles, artist; watercolour. *Presented by W. Maw Egley, Esq.*

Devis, Anthony Thomas. Two landscapes; watercolours. *Presented by Sidney Colvin, Esq.*

Dickinson, Lowes Cato. A series of twenty-four portrait drawings in pencil. *Presented by Miss Dickinson.*

Egley, William Maw. Portraits of William Egley, miniature painter, and of Thomas Woodward, animal painter; watercolour. *Presented by W. Maw Egley, Esq.*

Fulleylove, John. The Portcullis in the Bloody Tower. *Presented by Campbell Dodgson, Esq.*

Leech, John. A petition being presented to Queen Victoria; pencil. *Presented by J. Edge Partington, Esq.*

Murray, Elizabeth Emily. Drawing of feathers, in the form of a fan; watercolours. *Presented by Miss Murray.*

Ospovat, Henry. Study of an old Jew; charcoal.—Sketch for an illustration to Omar Khayyám; pen and ink.—Illustration to the Forsaken Merman; pen and ink.—Illustration to the Song of Solomon; pen and ink.

Richards, John Inigo, R.A. Six drawings of buildings and landscape; watercolours.

Ruskin, John. The Castle Rock, St. John's Vale; pencil on grey paper, heightened with white. *Bequeathed by Miss Barton.*

Skelton, J. A mill near Carshalton, 1757.—A sandpit near Croydon, 1756.—Tivoli, 1758.—View down the Medway to Sheerness.—The Castle at Canterbury. All in watercolours.

Stevens, Alfred. Design for decoration of the British Museum Reading Room; pencil and watercolours. *Presented by James Gamble, Esq.*

Talfourd, Field. Portrait of John Gibson, the sculptor, drawn at Rome, 1859; coloured chalks. *Presented by Miss Preston.*

Tomkins, Charles. A series of twenty studies of landscape, figures, etc., in an album; watercolours, sepia, pen and ink, or pencil. *Presented by Mrs. Robert Barclay.*

Wilson, Richard, R.A. Ruins of the amphitheatre at Capua; pencil. *Presented by Bowyer Nichols, Esq.*

Etchings.

Bone, Muirhead. Country Mews, 1909; trial proof.—*Presented by the Artist.*—Portrait of the Artist, 1908.—Exhibition etchings, Glasgow, 1901; set of ten in a portfolio. *Presented by Campbell Dodgson, Esq.*

Pinkerton, Eustace. Fourteen portraits and landscape studies. *Presented by the Artist.*

Pott, Constance. Ten studies of landscape, etc., including four book-plates. *Presented by the Artist.*

Engravings.

Ebsworth, Joseph W. Thirteen figure subjects, ornaments, etc.

Knight, Joseph. Three original mezzotints. *Presented by Mrs. Clara Knight Berwick.*

Paul, S. (assumed name of R. Earlom?). A storm, after Joseph Vernet; mezzotint. *Presented by E. E. Leggatt, Esq.*

Pinkerton, Eustace. Eight mezzotints after Van Dyck, Huysman, Raeburn, and G. Stuart. *Presented by the Artist.*

Strang, William, A.R.A. Equestrian portrait of Lieut.-Gen. Sir Charles Nairne, K.C.B.; mezzotint after the painting by C. W. Furse, A.R.A.; early trial proof. *Presented by the Artist.*

Woodcuts.

Bonner, G. W. Four woodcuts, printed in colours, one after A. W. Callcott, R.A.

Branston, A. R., senior. Eleven cuts, printed in colours, after various English painters.

Branston, R., junior. Passage boats, after A. Callcott, printed in colours.

Gere, C. M. Seven illustrations to the Ashendene Press edition of Dante, 1909; designed by C. M. Gere, cut by W. H. Hooper. *Presented by C. St. John Hornby, Esq.*

Moore, T. Sturge. Twenty-two original woodcuts. *Presented by the Artist.*

Pissarro, Lucien. A series of fourteen woodcuts, original or after Camille Pissarro, many of them printed in colours. *Presented by the Artist.*

Lithographs.

Brangwyn, Frank, A.R.A. Columbus sighting land; printed in colours. *Presented by Campbell Dodgson, Esq.*

Ebsworth, J. W. Six figure subjects and studies.

Kerr-Lawson, J. A series of ten lithotints, "The Italian Set," and two portraits. *Presented by the Artist.*

Shannon, C. H. Twenty-five original lithographs, including early states and variations. *Presented by the Artist.*

Prints arranged to illustrate the Works of Masters.

New, Edmund Hort. New College Cloisters, Oxford.—Brasenose College, Oxford. Photogravure. *Presented by the Artist.*

AMERICAN SCHOOL.

Etchings.

Armington, Frank Milton. Eleven plates of old buildings in Bruges, Paris, Nuremberg, and Rothenburg. *Presented by the Artist.*

Armington, Caroline Helena. Five plates of subjects from Bruges and Paris. *Presented by the Artist.*

Winslow, Henry. Twelve subjects from towns in France. *Presented by the Artist.*

Lithographs.

Whistler, J. A. McNeill. The Siesta. *Presented by T. R. Way, Esq.*

CHINESE SCHOOL.

Paintings.

Wang Jo-Shui (13th cent.): Flowers and insect. *Presented by Frau Wegener.*

JAPANESE SCHOOL.

Woodcuts.

Buncho, Ippitsusai. Girl standing by a plum-tree.—Ten theatrical prints. From the Satow Collection.

Hiroshige. Murasaki Shikibu in a moonlit landscape; triptych; modern impression. With complete set of the eighteen woodblocks from which this triptych was printed. *Presented by J. S. Happer, Esq.*

Kiyonaga. A single sheet, two diptychs, and an original drawing for a print. From the Satow Collection.

Kunisada. Danjuro as Sukeroku.—Iwai Kumesaburo as a geisha. From the Satow Collection.—Interior of a house in the Yoshiwara. Five-sheet print.

Masanobu, Kitao. The complete set of six double-page prints published as "Shin Bijin Awase Jishitsu Kagami" (1782); fine impressions of a rare and famous set.

Sharaku. A series of twenty-five prints of actors; all rare and many of extreme rarity. From the Satow Collection.

Shuncho. Girls on a verandah; triptych. From the Satow Collection.

Shunkō. Four prints of actors. From the Satow Collection.

Shunsho. Seven prints of actors. From the Satow Collection.

Shuntei. An Eel Restaurant; triptych. From the Satow Collection.

Shunyei. Actor in female part. From the Satow Collection.

Toyokuni I. Eight prints of theatrical and other subjects, including a diptych. From the Satow Collection. Portrait of an actor.

Utamaro I. A series of twenty-four prints, including four of the set called "Seirō Juniji" and three fine triptychs of the artist's early period. From the Satow Collection.—Three groups of girls under cherry-trees; triptych. *Presented by Sir Hickman Bacon, Bart.*—The so-called "Taikō" triptych, Hideyoshi surprised among women (1804).

Yeishi. Two prints from the set "Seirō Moyō Awase." From the Satow Collection.

Yeishō. Hanaogi as Samantabhadra. From the Satow Collection.

Yeizan. The Dream of Rosei; triptych.

PORTRAITS.

Foreign.

Melanchthon, Philip; wood-cut on title-page of a book, printed at Wittenberg, 1562. *Presented by S. Vacher, Esq.*

Sturm, Jakob, of Strassburg; anonymous German woodcut. From the Lanna Collection.

Wirsberg, Friedrich von, Bishop of Würzburg; engraving signed with the monogram THB. From the Lanna Collection.

Four portraits of German savants: Adolf Bastian, Carl Justi, Julius Lessing, Friedrich Lippmann; photogravures and etching. *Presented by Herr G. Grote.*

English.

Bentham, Jeremy; pen-and-ink sketch by an American amateur; "the best likeness extant" (note by his nephew George Bentham). *Presented by Sir Joseph Hooker.*

Davies, John; after S. W. Reynolds, jun., by S. W. Reynolds; mezzotint; a rare plate. *Presented by J. Charrington, Esq.*

Dufferin and Ava, the Marquis of; after F. Holl, by D. Wehrschmidt; mezzotint.

Granville, the Earl; drawn and engraved by Joseph Brown.

Leicester, Thomas William Coke, 2nd Earl of; after G. Richmond, by F. Joubert; engraved in the mixed manner. Private Plate.

Nairne, Gen. Sir Charles, K.C.B.; after C. W. Furse, A.R.A. by W. Strang, A.R.A.; mezzotint. Private plate. *Presented by F. Arnold Baker, Esq.*

Sandford, Daniel, Bishop of Edinburgh; after J. W. Gordon, etched by W. Walker and mezzotinted by S. Cousins. Private plate. *Presented by J. Charrington, Esq.*

BOOKPLATES.

A series of twenty German plates, designed by Alois Balmer. *Presented by the Artist.*

Four plates of Franz Unterberger, designed by A. Balmer. *Presented by Herr Unterberger.*

Seven plates, designed by Henry Ospovat and reproduced in lithography by T. Way. *Presented by T. R. Way, Esq.*

Bookplate of the Ironmongers' Company, etched by Constance M. Pott. *Presented by the Ironmongers' Company.*

Bookplate of the Grocers' Company, etched by Constance M. Pott. *Presented by the Grocers' Company.*

BOOKS OF PRINTS AND BOOKS OF REFERENCE.

Achiardi, P. d'. Les Dessins de Goya au Musée du Prado. Livraisons I-III.

Bathurst Collection of Pictures; catalogue, compiled by Earl Bathurst. Privately printed, 1908. *Presented by Earl Bathurst.*

Bryden, Robert. Etchings of Ayrshire Castles. Series I., 1898, and Series II., 1908. Castles of Carrick, 1910. *Presented by the Artist.*

Chantilly, Crayons français du 16^e Siècle à ; 5 tom.

Daniell, E. T. Twelve etchings, with memoir by R. H. Inglis Palgrave. Yarmouth, 1882. *Presented by Campbell Dodgson, Esq.*

Dayot, Armand. J. B. S. Chardin.

Ffoulkes, Jocelyn. Vincenzo Foppa of Brescia.

Giehlow, Karl. Kaiser Maximilian's Gebetbuch, mit Handzeichnungen von Dürer und anderen Künstlern. Vienna, 1907.

Leidinger, Teigdrucke des XV. Jahrhunderts in München.

Meier-Graefe und Klossowsky. La Collection Chéramy.

Nerval, Gérard de. Histoire de la Reine du Matin et de Soliman, illustrated with woodcuts by Lucien Pissarro, many of them printed in colours. One of an edition of 130 copies printed for "Les Cent Bibliophiles." *Presented by the Société des Cent Bibliophiles.*

Nolhac, Pierre de. François Boucher.

Rooses, Max. Jakob Jordaens.

Schmid, H. A. Matthias Grünewald. Teil I.

Toison d'Or, Exposition de la. Les Chefs d'Œuvre de l'Art ancien.

Ukiyo-yé School, Masterpieces selected from. Vol. II. Tokio.

Sidney Colvin.

DEPARTMENT OF EGYPTIAN AND ASSYRIAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, etc.*

EGYPTIAN ANTIQUITIES:—

The general re-arrangement of the Egyptian Collections has been continued and the greater number of the important objects acquired during the year have been incorporated and exhibited.

The Wall-cases in the Fourth Egyptian Room have been shortened and adapted to the space available during the alterations now being carried out in connection with the extension of the Museum. The Standard Cases have been rebuilt, and the collections from them have been cleaned, repaired where necessary, and replaced.

The cases containing the Egyptian papyri have been removed to the Assyrian Saloon in the Basement.

The labelling of the exhibits has been continued.

The washing and cleaning of many stelæ and figures in hard stone have been carefully carried out.

The remounting and repair of the Sekhet statues have been continued, and many of the old plinths have been replaced by granite.

Fifteen Caen stone plinths and pedestals have been worked and placed in position; twelve granite plinths have been made and "fixed"; and one hundred and forty-one white alabaster plinths have been prepared and polished, and figures of gods, *ushabtiu* figures, etc., mounted on them; and one thousand and three wooden plinths, pedestals, mounts of various kinds, and vase stands have been made, and small figures, vases, etc., mounted upon them.

The two large painted casts of reliefs from a temple of Rameses II., in Nubia, have been removed from the Fourth Egyptian Room, and fixed on the walls of the Third Egyptian Room.

The remounting of the series of altars in the Egyptian Galleries has been completed.

Seventeen large wooden labels have been prepared and fixed; and 450 pin numbers have been fixed.

62 objects, including coffins, stelæ, large figures, etc., have been repaired; about 40 objects have been cleaned; about 80 vase-fragments have been rejoined; and a collection of early pottery has been washed.

2430 scarabs, porcelain figures, etc., have been mounted on cloth-covered plinths.

448 labels have been drafted and painted on the plinths in the Egyptian Galleries, and numbers have been painted on 17 objects, casts, etc.

1821 casts of scarabs for photographic purposes have been made; four papyri have been repaired.

1472 objects have been registered or re-registered, and about 580 objects, from which the numbers had disappeared, have been identified, renumbered, and noted in the Registers.

Works in Progress.

1. *Select Papyri*.—The translation of two papyri for the new volume has been continued, and 14 collotype plates have been printed off.

2. *Coptic Homilies*.—About 80 foll. have been copied for publication.

3. *Catalogue of Scarabs*.—Catalogue slips for 2426 scarabs have been written, and of these 2194 have been revised. The slips for the royal scarabs, 2621 in number, are arranged ready for the printer.

4. *Egyptian Texts*.—101 stelæ, mastaba doors, etc. have been copied, and 35 plates have been prepared for the lithographer.

A slip list of 4100 scarabs has been made for use during the preparation of the Scarab Catalogue.

ASSYRIAN ANTIQUITIES :—

The general re-arrangement of the unexhibited section of the Babylonian and Assyrian Collections has been continued, and the cleaning of the bas-reliefs has been continued.

A large portion of the Babylonian Collection, the Kuyunjik, "Daily Telegraph," and other Assyrian Collections have been removed to the Assyrian Room in the Basement, and re-arranged temporarily during the alterations in the Northern Gallery.

280 tablets and fragments have been cleaned and repaired, and the boxing of the collections has been continued; plaster casts of 89 Babylonian cylinder-seals have been made, and mounted with the originals on wooden blocks; 14 fragments have been rejoined, and 25 labels and 376 registration numbers have been written and painted.

280 tablets and other objects have been registered; a slip list for a collection of Babylonian tablets has been made, and a slip list of the copies of cuneiform texts up to No. 4030.

141 tablets have been copied; 35 tablets have been collated; 452 tablets have been examined and selected for publication; and 630 tablets belonging to medical and other series have been examined and arranged.

The new cylinder of Sennacherib has been copied, and parts of the text translated; and Introductions, Index, etc., have been written for Parts XXV. and XXVI. of "Cuneiform Texts from Babylonian Tablets."

Works in Progress.

1. *Babylonian Boundary Stones*.—About 50 plates of texts have been translated and transliterated. .

2. *Cuneiform Texts*.—The 50 plates for Part XXVII. have been copied and sent to the printer. The 50 plates for Part XXVIII. have been copied, and the revision of the texts is in progress.

Publications.—"A Guide to the Egyptian Galleries and Vestibule (Sculpture)"; Texts relating to St. Mēna of Egypt and Canons of Nicēa in a Nubian Dialect"; and Parts XXV. and XXVI. of "Cuneiform Texts from Babylonian Tablets, etc." have been issued.

Students.—About 3,260 visits have been made to the Department by students and others; and 16,962 objects have been issued for their use.

Personally conducted Parties.—Fifty-one parties have been personally conducted through the Department by members of the staff, the number of persons being about 1,150, including pupil teachers and others from schools.

II.—*Acquisitions.*

i.—EGYPTIAN:—

i.—1. Black granite seated statue of Rā-men-kheper-senb, an Erpā and Hā prince, chief judge and second prophet of Amen-Rā, the king of the gods, at Karnak (Thebes), who flourished during the reigns of Queen Hātshepset and Thothmes III., about B.C. 1550. The style of the statue is archaistic, and was modelled on that of the best examples of the sculptor's work of the XIIth dynasty. From Thebes.

2. A massive quartzite sandstone seated figure of Teta, or Tetathi, a priest, scribe, chancellor and councillor, who flourished in the reigns of Queen Hātshepset and Thothmes III., whose name he bears on his shoulder. He administered the finances of the Temple of Amen-Rā at Thebes, and as the high priest of Ptah he directed the ceremonies in connection with the dead in the Tuat Chamber. From Thebes.

ii.—1. A diorite bangle from Upper Egypt. Predynastic Period.

2. Red and yellow stone vase. Predynastic Period.

3. A cylinder seal on which is engraved the Horus name and titles of Sahu-Rā, a king of the Vth dynasty. About B.C. 3500.

4. A painted wooden figure of a female musician holding a harp in her hands. A very interesting object. Probably unique. XIIth dynasty.
5. Large blue porcelain vase inscribed with the names and titles of Amen-hetep II., king of Egypt. About B.C. 1500. From the tomb of the king at Thebes.
6. Bronze ring, with a portrait figure of Khu-en-Aten (Amen-hetep IV.), the "heretic king," on the bezel. Very rare. About B.C. 1450.
7. Sculptor's model of the upper portion of a colossal figure of a king, on the back of which are cut the lines of a canon of proportion. A rare example. XIXth dynasty.
8. Porcelain foundation plaque from a temple in the Delta built by Khā-em-Uast, son of Rameses II. and priest of Ptah. Very rare. XIXth dynasty.
9. Blue glazed porcelain bowl ornamented with lotus flowers and buds and two heads of the goddess Hathor. From Tūnah. XXth dynasty.
10. Gilded obsidian amulet of the two fingers. From a royal tomb. XVIIIth or XIXth dynasty.
11. Blue glazed porcelain amulet of the backbone of Osiris. XIXth dynasty.
12. A collection of twenty-four fine blue and green glazed porcelain plaques, beads and other objects, inscribed with the names and titles of deities, etc. Chiefly of the New Empire.
13. A fine collection of 253 scarabs, glazed a light grey or brown colour, a considerable number of which bear royal names. XIIth-XVIIIth dynasties. From the Delta.
14. Portion of a silver figure of a woman wearing a headdress with uraeus. Fine work. New Empire.
15. Bronze figure of a woman with two faces, seated on a pedestal. Period uncertain.
16. Lapis-lazuli plaque inscribed with a formula invoking the protection of the god Her-shefi. XXIIInd dynasty.
17. Bronze stamp, with plumes, bearing the names of Ptah and Sept. XXIIInd dynasty.
18. Bronze stamp, engraved with an oval containing the name of a festival (?). XXIIInd dynasty.
19. A fine green basalt standing figure of Un-nefer, a priest of all the great gods of Thebes, holding a figure of Khensu - pa - shere. From Thebes. XXVIth dynasty.

- 20, 21. Two bronze figures of Hāp, or Hāpi, the Nile-god, on which are cut the names of Amasis II., king of Egypt from B.C. 572 to 527. They probably formed a portion of the decoration of a wooden casket. Rare objects. XXVIth dynasty. From Thebes.
22. Bronze stamp, bearing the name of Darius I., king of Egypt about B.C. 521. From the Oasis of Khārgah.
23. Hæmatite Gnostic amulet, engraved with a figure of the lion-headed serpent Khnoubis, etc., and a figure of an animal-headed deity holding a drawn sword. Græco-Roman Period.
24. Stone Gnostic plaque, perforated and of unusual shape, engraved with figures of deities, an animal, and linear characters. Græco-Roman Period.
25. Solid bronze ornament of a temple door in the form of the head and bust of a goddess wearing a tiara of flowers or serpents. Græco-Roman Period.
- iii.—1. Blue porcelain figure of the ibis of Thoth.
2. Porcelain utchat, or "sacred eye," in hollow work.
- 3-5. Steatite lion on an oval base, steatite scarab and a glass paste scarab. Nos. 1-5 belong to the New Empire.
- iv.—1. Limestone slab on which is cut a list of all the principal offerings, about 90 in number, which were made to the dead on great festivals. IVth dynasty. About B.C. 3600.
2. Stele with decorations in the style of the "false door" in a *mastaba* tomb. IVth or Vth dynasty.
3. Cylinder seal of User-en-Rā, a king of the IVth dynasty. Probably from the royal tomb.
4. Cylinder seal of Utchā, a king otherwise unknown. IIIrd or IVth dynasty (?).
5. Black stone cylinder of a private person. Archaic Period. From Abydos.
6. Leather quiver filled with reed arrows tipped with bone. Unique. Probably of the Predynastic Period.
7. Head of a "Canopic" jar painted blue and red. From Thebes. XVIIIth dynasty.
8. Coptic sepulchral inscription. 9th century A.D.
- v.—1. Black granite seated figure of a high official who flourished under certain of the kings of the IVth dynasty. Found at the back of the pyramid of Mycerinus at Gīzah. About B.C. 3500.
2. A group of limestone statues, of an unusual class, of the three-headed god Bes-Hathor-Horus, and

Ptolemy IX. and his Queen. Found in front of the pylon of a tomb-temple in Upper Egypt. Ptolemaic Period.

3. A massive silver seated figure of the god Rā, holding the feather symbolic of "truth"; it was found suspended on the breast of a colossal statue of Rā at Karnak. XIXth or XXth dynasty.
 4. Stone model of the human heart inlaid with figures of the gods. A rare object. XXnd dynasty.
 5. Brown terra-cotta ushabti figure of unusual style. Period unknown.
 6. Hæmatite bezel of a ring on which is cut a scene representing Osiris rising from a beetle, and Isis and Nephthys standing one on each side of him. Gnostic Period.
 7. Hæmatite amulet, on which are cut figures of the lion-headed serpent Khnoubis, Anubis, etc., enclosed within a serpent circle, and a series of magical names. Gnostic Period.
 8. Bronze lamp of unusual shape and design. Coptic Period.
 9. Bronze incense burner. Coptic Period.
- vi.—1. Seated root-of-emerald figure of Herua, a high official, who held the rank of Erpā, or tribal chief, and flourished probably about B.C. 1200. The carving of the face and head is realistic, and the figure is one of the most remarkable objects acquired for many years. When found in the tomb a gold mask, an inlaid headdress, and an *atef* crown in gold were on the face and head, and a fine wire chain of gold, to which was attached a figure of the goddess Maāt, was wound round the neck in double. The mask and headdress are of the same date as the figure, but the crown, chain, etc., are restorations of the Ptolemaic or Roman Period. In the same tomb was found a fine stone pyramidion on which are cut the names of the deceased, and scenes representing his worship of the Sun-god, etc.
- Purchased with the help of a donation from the Lady Wantage.*

ii.—ASSYRIAN :—

- i.—1. A fine baked clay, eight-sided cylinder of Sennacherib, king of Assyria from B.C. 705 to B.C. 681. It contains the longest inscription of Sennacherib hitherto recovered, and the text consists of seven hundred and thirty-nine lines, or two hundred and fifty-three lines more than are found in the famous "Taylor Cylinder." The cylinder is dated

in the month of Ab, in the eponymy of Ilu-ittia, the governor of Damascus, and it describes the principal events in Sennacherib's reign up to the summer of the year B.C. 694. The text records two campaigns of Sennacherib which are omitted in the later cylinder inscriptions, not because they were comparatively unimportant, but because the king took no active part in them. The first of the two campaigns took place B.C. 698, and was undertaken to put down a revolt which had broken out in Cilicia under the direction of Kirua, prefect of Illubru; the rebels had seized the Cilician Road and stopped all traffic. The Assyrians suppressed the revolt, opened the road, and brought back Kirua to Nineveh, where he was flayed. The second Cilician campaign was undertaken B.C. 695, and was directed against a certain Khidi, who established himself in Til-Garimmu, a city of Tabali, a district lying to the north-east of Cilicia. The Assyrians attacked the city and destroyed it, and deported the inhabitants and their gods to Assyria.

The new cylinder contains a full account of the building operations of Sennacherib, and describes the improvements which he made in the city of Nineveh. The area of the city was more than doubled, fine gardens were made, and the water supply was greatly improved. Sennacherib devised a complete system of fortification for the city, and he built fifteen gates, seven facing south-east, three north, and five south. The whole city was surrounded with two walls, each being of immense strength and thickness. The names and positions of these gates are made known by the new cylinder for the first time. This cylinder was probably found in the structure of the wall of Nineveh, beside one of the principal city gates.

[No. 103,000.]

2. A fine fragment of a baked clay cylinder inscribed with the annals of Sennacherib, king of Assyria from B.C. 705 to B.C. 681. The contents of the inscription have no equivalent in the great Taylor cylinder, but a portion of the text corresponds to a passage in one of the Bull Inscriptions, and describes the building of the royal palace at Nineveh, and the transport of cedar beams from Mount Amanus and Mount Sirara in the Lebanon.

- ii.—1. Archaic bronze figure of a bearded god or king wearing a headdress, with horns, similar to that found on Elamite figures from Susa, B.C. 2000 or earlier. Probably Elamite. [No. 103,006.]

2. Marble cylinder-seal, engraved with the figure of the owner standing in the presence of a god. A fine specimen of early Babylonian (Semitic) work. About B.C. 3000. [No. 103,009.]
 3. Archaic cylinder-seal engraved with illegible characters. Early period. From Egypt or Elam. About B.C. 3000.
 4. Cylinder-seal engraved with figures of a bull and ibex(?). Period uncertain, but probably early Babylonian. [No. 103,014.]
 - 5, 6. Lapis-lazuli amulet in the form of a human-headed bull, and a lapis-lazuli seal cylinder engraved with the figure of a god standing on two lions. [Nos. 103,008 and 103,015.]
 7. Rectangular stone pendant engraved with figures of pomegranates, wreaths(?), an ibex with a fish's tail, etc. [No. 103,007.]
- iii.—1. Upper portion of a cylinder-seal engraved with a scene representing Marduk slaying the Dragon Tiamat, which is represented in the most unusual form of a serpent. Assyrian period. [No. 103,018.]
2. Assyrian tablet inscribed with a text recording a loan of five manehs of silver. About B.C. 680. [No. 103,017.]
 3. An Assyrian letter concerning private affairs. About B.C. 680. [No. 103,016.]
 4. A chalcedony cone engraved with a scene representing a priest officiating at an altar. Persian period. [No. 103,019.]
 - 5, 6. Babylonian cylinder-seal and a hæmatite duck weight. [No. 103,002.]
 7. Hæmatite cylinder-seal engraved with a scene representing the worship of the Moon-god, and with the figure of the Storm-god on the back of a crouching buli. [No. 103,010.]
 8. Hæmatite cylinder-seal engraved with a scene representing the worship of a deity. [No. 103,012.]
 9. Steatite cylinder-seals engraved with figures of a seated man, a vase, half circles, etc. [No. 103,011.]
 10. Brown stone cylinder-seal engraved with a scene in which a horseman is spearing a stag. Persian Period. About B.C. 500. [No. 103,013.]
 11. Hæmatite barrel-shaped seal engraved with a scene in which a hunter is spearing a wild boar. Late Phœnician period. [No. 103,005.]

12-14. Three agate seals engraved with figures of horse-men, ibexes, etc. Sassanian period.

[Nos. 103,003, 103,032-3.]

15. Native bronze figure of a deity standing on a low pedestal and holding a cup in the right hand. Period and provenance unknown.

[No. 103,001.]

iii.—HIMYARITIC:—

1. Two large native inscriptions in the Himyaritic character of the early period. About B.C. 1000.
2. Portion of a native inscription and dedicatory text.
- 3-5. Three fragments of native inscriptions. About B.C. 700.
- 6-8. Three white alabaster heads of male statues from niches in the rock tombs of Sanaa. Archaic Period.
Nos. 1-8 come from Sanaa and sites in the neighbourhood of Southern Arabia.
9. Stone amulet with magical lines and inscriptions. From Hadhramaut.
- 10-13. Two metal rings inscribed with names, and two Pehlevi rings for sealing purposes. Period uncertain.
14. Portion of a bronze figure of a camel. Very rare. Period uncertain, but probably pre-Christian.

III.—Presents.

1. Mummy and coffin of a priestess of Amen-Rā, the king of the gods, at Thebes, who flourished about B.C. 850-750. The name of the priestess is not found on the coffin, but it is probably written on one of the inner swathings of the mummy. The mummy is in a perfect state of preservation, and the swathing has been carefully done. The coffin is painted inside and out, in bright colours, with the figures of the gods who were specially selected by the Brotherhood of Amen to be the protectors of the dead, and with the funerary symbols characteristic of the period. Found at Der al-Bahari. From the Amherst Collection.

Presented by Lady William Cecil (Baroness Amherst of Hackney).

2. Group of objects from an Egyptian tomb consisting of worked flint scrapers, a mace head, white stone mace head, 2 clay mace heads, 2 stone models of

picks, a copper harpoon, a small ivory vase, and a quantity of models of garlic made of clay.

3. Group of objects from an Egyptian tomb, consisting of a green slate plaque, and a model of a human head in clay with eyes painted black and green.
4. An important collection of pottery, including examples of black-topped ware, polished red ware, and vases with wavy handles, etc. Predynastic Period.
5. Cylinder-seal of an unusual shape. Ist dynasty.
- 6, 7. Blue porcelain vase and a string of blue porcelain beads. VIth dynasty.
8. Capital of a pillar from a shrine of a saint or from the altar of an ancient Coptic church, 7 ostraka, etc. From Abydos.
Presented by the Egypt Exploration Fund.
9. Cast of the head of a sphinx holding the head of a prostrate man between its paws.
Presented by the Institute of Archæology, Liverpool.
- 10, 11. A bead necklace and a figure of the goddess Bast.
Presented by Mrs. A. B. Evans.
- 12-14. Three small wooden coffins, each containing a funerary figure, or perhaps *ushabti*. From Thebes.
- 15-17. Three legs of chairs or stools. From Thebes.
18. A wooden boomerang. From Thebes.
Presented by the Earl of Carnarvon.
19. Chalcedony cylinder-seal engraved with the figure of a crowned god holding the heads of two scorpion-men, crowned and bearded. Persian Period.
Presented by Colonel A. Bailward.
20. Portion of a brick stamp of Naram-Sin, king of Akkad, recording his building of a temple in honour of Sin the moon-god. From Tell Loh (Tello).
Presented by Rudolf Hurner, Esq.

E. A. Wallis Budge.

DEPARTMENT OF GREEK AND ROMAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, &c.*

The collection of casts from antique sculptures, which was transferred from the Victoria and Albert Museum, has been cleaned and remounted, and arranged for exhibition in a temporary gallery, which was opened to the public in August.

A rearrangement of the sculptures of the West Pediment of the Parthenon, by which the existing fragments are grouped more nearly at their proper relative heights and angles, was carried out experimentally with plaster casts of the figures; and this having been approved by the Trustees, the work of altering the pedestals and remounting the original marbles is now in progress. The figure of Victory, hitherto assigned to the East Pediment, has been removed from that group, and will be restored to its ascertained place in the West Pediment.

The Elgin Room has been repainted. A marble tomb from Lycia has been reconstructed and mounted in the Archaic Room, and the rearrangement of the room has been completed. Four marble stelæ were mounted and placed in the Phigaleian Room. Parts of two marble friezes were remounted on the wall of the Mausoleum Room, bronze frames for labels were made and fixed to the curved pedestals of Roman busts.

The arrangement of the first Vase Room has been altered, the Corinthian, Rhodian and other Asiatic wares being transferred to the second Vase Room, where the "Black-figure" vases were concentrated to make room for them. In the first room the recently acquired Minoan vases from Crete were arranged in a standard-case; a table case was fitted for the exhibition of Minoan and Mycænæan pottery fragments, ivories, bronzes, glass jewellery and similar objects, and several large jars and chests were brought up from the Basement. The wall-cases were refitted for the better exhibition of the Cypriote and other early wares. Cupboards and table-cases were fitted with shelves for the storage of unexhibited vases in the four Vase Rooms; wall-cases in the third room were altered for the exhibition of white Lecythi, and a shade was fitted for Roman glazed vases in the fourth Vase Room. Two table-cases were fitted with shallow glass-covered drawers for the exhibition of pottery fragments and patterns of ancient marbles.

Four glass shades were made and fitted on cases in the Bronze Room. In the Gold Ornament Room the case of silver statuettes was rearranged and the Marlborough cameos were re-mounted. Part of a terracotta roof from Cività Lavinia was reconstructed upon oak rafters, and the restoration was mounted in a new standard-case in the Terracotta Room.

Eleven new moulds have been made of slabs of the frieze of the Parthenon; five marble heads, ten reliefs and an inscription have been mounted on stone pedestals; 168 vases, 11 bronzes, 14 terracottas, an ivory relief, and 30 objects in gold and silver have been mounted on wooden blocks. An

ivory relief, 107 vases and fragments, 3 bronzes, 12 terracottas, and 26 gold and silver objects have been cleaned and repaired; 366 objects have been registered, 1,827 numbered; 255 labels have been written; and 17 printed in the department.

Progress has been made with the preparation for publication of The Sculptures of the Parthenon in folio, and of the Catalogues of Gold Ornaments; Lamps; Vases, Vol. I; Ivories; and Inscriptions.

Students. — The number of visits to the Departmental Library for purposes of research has been 563; there have been 1,347 other visits to the Staff for purposes of enquiry or Departmental business, and 1,077 attendances of students in the Sculpture Galleries have been entered.

II.—Acquisitions.

By Purchase.

I.—Bone and Ivory.

1. Six thin bone plaques, fragmentary, incised with geometrical patterns and figures of deer; the incisions are inlaid with a black substance. They are perhaps late Mycenaean work.

2. Ivory plaque from the arm of a couch. The plaque is carved in relief with a design representing Bacchus seated, holding a wine-cup in his left hand and grasping with his right a bunch of grapes which hang from a vine; above, a Cupid flying. Roman work. From the Campanari Collection. (Graeven, *Antike Schnitzereien*, No. 59.)

II.—Bronze.

1. Head of a woman, broken from a statuette. Archaic Greek work.

2. Statuette of a cow walking. On its back is an inscription in archaic Peloponnesian characters: **ΛΑΚΟΣ ΑΝΕΘΕΚΕ ΗΕΡΑ**. Said to be from Sparta.

3. Relief, cast by *cire perdue*, of a boar. It has been attached to some curved background, such as a shield-boss, which is now lost. Greek work of the 5th century B.C., found near Smyrna.

4. Statuette of Diana Multimammia, wearing a high *polos*, and with body swathed.

5. Head of a peacock, broken from a large figure. The feathers were originally plated with silver.

6. Beak and head of bird, upper part, perhaps from a water spout.

7. Fragment of a plant, perhaps the head of an asparagus stalk.

8. Leg, perhaps of a deer, with hinged joint at the upper end.

9. Handle of a knife or spoon, terminating in the figure of a mouse which is eating a fruit. On the side is an inscription; **ΚΑΝΤΥΛΙΟΥ ΥΓΕΙΝΟΥ ΝΕΩΠΟΙΟΥ**, in characters of the early Roman Period.

(Nos. 4 to 9 are probably from Ephesos.)

10. Mirror, late Etruscan, engraved with the scene of Medeia administering a draught to Aison (or perhaps Jason) in the presence of Athena and another goddess whose name has not been translated. (*Bull. d. Inst.*, 1878, p. 144; *Mon. d. Inst.*, XI., pl. 3; *Annali*, 1879, p. 47; Heydemann, *Iason in Kolchis*, p. 6; Roscher, *Lexikon*, II., p. 2505 [s.v. Medeia]).

11. Mirror, late Etruscan, engraved with figures of four women and inscribed with several legends in Latin, of which the name T. ANNEI PRISCI alone can be deciphered.

12. Sword, Italian, of the *Antennæ* (Ronzano) type, with closely curled horns. Very thick and heavy; covered with a yellowish green patina.

13. Fibula, Italian, of the *boat* type, elaborately engraved with geometric patterns.

III.—Gems.

1. Chalcedony bust; the portrait of a beardless Roman of about the time of Trajan. From the Claude Ponsonby Collection.

2. A pair of crystal scarabæoid intaglios, each set in its original swivel mount of twisted gold. On one the device is a bridled horse galloping, on the other a goat walking. Greek work of the 5th century B.C. Found in a tomb in Lecce.

3. Obsidian scarabæoid intaglio, with a design of two lions in combat and an inscription, in the Cypriote script, probably the name Aristocles, within a cable border. Archaic style. From Cyprus.

4. Quartz pendant, of pink colour. The stone is pear-shaped, pierced for suspension at the pointed end, and engraved with two intaglio groups: a worshipper approaching a seated deity who holds a bird and a flower; and a Persian man and woman conversing. Græco-Persian work of the 5th century B.C. Probably from Cyprus.

5. Steatite pendant, roughly shaped like a vase, with geometrical incisions on both sides.

6. Sard lentoid intaglio pierced for a swivel mount. The design represents a goat struck down by a spear.

(5 and 6 from Crete, of the Minoan period.)

IV.—Gold and Silver.

1. Five stamped gold plaques bearing the following designs:—a gryphon seated, a lion recumbent, a hare running, a nude male figure kneeling or running, and two Scythians back to back, shooting with bow and arrows. Similar

types were found at Koul Oba near Kertch. (*See Antiquités du Bosph. Cimmérien*, pl. XX.).

2. Silver finger-ring, with openwork decoration, composed of a dolphin and letters in the Iberian script which form the legend **OLGRNFT**. Found near Sases, Lerida, Spain.

3. Silver pin, the head made of a statuette of Cupid seated. Roman work.

V.—Lead.

1. Cylindrical toilet-box (*pyxis*) with lid. On the rim of the lid outside is the inscription:—**ΣΜΙΚΡΟΥ ΤΙΝΟΣ ΑΙΓΙΝΗΤΟΥ ΕΝΔΕΕΣ ΕΙΜΙ ΕΝΔΕΙΓΜΑ ΤΑΤΡΕΙΑΣ** and inside:—**ΚΡΑΤΥΛΟΣ ΑΙΓΙΝΗΤΗΣ ΤΗ ΕΥΛΙΜΕΝΗ**. The alphabet is of the 5th or 4th century B.C.

2. Model of a tray (*scaphos*), containing a bunch of grapes, a haunch of venison, and a lobster. On the handles are reliefs of a male figure holding a stick, and a term.

3. Two votive models, a tray and a pan. From Abdera.

4. Weight (litra of Cyzicus, 4976 grns.) with a terminal figure and the inscription **ΛΕΙ ΚΥΖΙ** in relief (Egger Sale, Vienna, 1908, lot 538).

5. Weight (litra, 4,992 grns.) with two inscriptions in relief: on the front, **ΛΕΙΤΡΑ**; on the back, **ΔΗΜΗΤΡΙΟΥ ΠΑΡΑΦΥΛΑΚΟΣ**. Late Roman period.

IV.—Marble and Stone.

1. Head of a boy, the hair bound with a tænia. Late Greek work; said to have been found in a well at Rhodes.

2. Head of Dionysos of Scopaic style, crowned with a vine-wreath; the ribbons which bind the wreath fall over the shoulders in front. Apparently from a terminal bust. Perhaps Greek work of the 4th century B.C. Said to have belonged to a Governor of the Ionian Islands.

3. Portrait-head of the Emperor Titus. From Utica.

4. Sepulchral stelè with relief of a woman standing, holding a mirror in her left hand. The lower part of the stone is broken away. Attic work of the 4th century B.C.

5. Limestone altar-front, carved with a garland suspended above rams' heads; on a panel is the inscription:—**ΚΛΕΟΠΑ ΤΡΑ ΣΑΜΟΥ ΤΟΥ ΑΣΠΑΣΙΟΥ ΓΥΝΗ ΔΙΟΝΥΣΙΟΥ ΔΙΟΝΥΣΙΟΥ ΤΟΥ ΚΑΙ ΘΕΟΔΩΡΟΥ ΖΗΣΑΣΑ ΕΤΗ ΛΒ ΜΗΝΑΣ Σ**. About 2nd century A.D. From North Syria.

VII.—Pottery.

1. Cantharos, plain-varnished ware, incised on the rim with the legend:—**ΓΟΡΓΙΔΑΟ ΕΜΙ**, in archaic characters. From near Plataea. (*Bull. Corr. Hell.*, IV., p. 547; Roehl, *Inscr. Græc. Antiqu.*, no. 247a.)

2. A pair of *Lecythi*, Attic red-figure ware. The bodies are plain; on the shoulder of one is an *Eros* flying with a casket in his hands, and on the other a girl seated with the casket open on her knees.

3. *Lecythos*, white ground, with design of a woman washing her hands. The neck and handle are broken away.

(2 and 3 from the Rome Collection.)

4. *Cylix*, with thick stem, small hollow foot and no handles. On the outside are painted horizontal bands; inside, irregular plant designs, perhaps in imitation of Egyptian glazed ware.

5. Jar with lid, plain and unpainted. In the lid and rim are holes for tying.

(4 and 5 from Rhodes.)

6. Three small unpainted jugs, with incised geometric decoration. From *Bœotia*.

7. Two Cypriote jugs, red ware painted in black with concentric circles and figures of goat and stag.

8. Lamp (modern), with design taken from a group of youths holding back a cow on the south frieze of the Parthenon.

VIII.—*Terracotta*.

1. Statuette of a girl stepping forward, accompanied by *Eros*, who is beating a tambourine. The whole surface is covered with a thick lustrous slip or enamel, which is painted in various colours; the eyes are drawn in black outline. Greek work, about 3rd century B.C. From *Olbia* on the Black Sea.

2. A series of seven heads broken from statuettes of Hellenistic style. From *Smyrna*.

3. Statuette of a boy holding *strigil* and *aryballos*. Greek, 4th century B.C. From *Mount Pangaios*.

4. Statuette of a shepherd boy sleeping. He wears a *Phrygian cap* and holds a *Pan's pipe*; by his side is a goat. From *Amphipolis*.

5. Statuette of a dog running with a hare in his mouth. Early Greek style. From a tomb at *Thebes*.

6. Group decorating a small vase: a *Seilenos* with hairy skin, holding in his right hand a large *thyrsos* and leading with his left a small boy. Hellenistic period.

IX.—*Wood, &c.*

The furniture of a tomb found in *Bulgaria*. The various pieces are:—

1. A circular mirror, with a disc of *speculum metal* which is surrounded by an openwork border of gilt bronze; the design consists of a scroll of vine-branches and peacocks. On the wooden back is a hinged pin, also of wood, which served as a leg to support the mirror.

2. Several smaller instruments of the toilet: a long pin, a double comb, a scraping implement with case in the shape of an eared label, and two cylindrical toilet boxes.

3. A rectangular box with mitred and dovetailed joints and grooved edges to take a sliding lid, which is missing. In the box are a dozen walnuts and four small chestnuts.

4. Six fragments of woollen cloth, black and with dark and light brown stripes. The date of the tomb appears to be the 2nd or 3rd century A.D.

By Donation.

I. Plaster cast from a marble head of Heracles, who is represented as a beardless youth. The original was found in a wall at Sparta. (*American Journ. Arch.*, XIII (1909), no. 2, pl. IV.)

Presented by W. R. Newbold, Esq., of the University of Pennsylvania.

II. A bronze foot of a vase, in the form of a lion's paw and head, and four bronze handles, also from a vase.

Presented by Sir A. Biliotti, K.C.M.G.

III. Marble sepulchral stelè of Melitta, formerly in the Guilford Collection and then lost. It bears a relief representing the nurse, Melitta, daughter of Apollodoros, with a child, Hippostratè, who erected the monument. The epitaph is composed in very faulty hexameters. (*I.G.*, II., 2729; compare Michaelis in *Hellenic Journal*, VI., p. 47.)

Presented by Messrs. W. Cubitt and Company, Ltd.

IV. A series of thirty-six fragments of Roman pottery, (Arretine ware), bearing the stamps of the makers. From the Cerro Muriano copper mine, near Cordova.

Presented by Horace Sandars, Esq., F.S.A.

V. Limestone sepulchral stelè, with relief of a boy holding a cock and a bunch of grapes and standing on a ram. By his side is a basket of fruit. Rough provincial work of the late Roman period. From Algeria.

Presented by the Hon. Lionel Walter Rothschild.

VI. Gold necklace, composed of eight plaques, each stamped with a design of Victory, driving a two-horsed chariot, and fifteen oval beads stamped with double palmettes; each plaque was originally hung from two beads. Greek work of the 4th century B.C. Said to have come from Athens.

Presented by Sir Henry H. Howorth, K.C.I.E., through the National Art Collections Fund.

VII. Terracotta statuette of a woman playing at knucklebones (*astragalizousa*), from Tanagra; finest Greek style.

Presented by Mrs. Charles Elton.

VIII. A collection of twenty-five vases of North Italian fabrics, mostly belonging to the Bronze Age.

Presented by R. Sneade Brown, Esq.

IX. Leaden tablet with relief of a veiled female head and an inscription. (A modern forgery.) From Ventimiglia.

Presented by J. A. Goodchild, Esq.

X. Six bronze arrowheads, from Asia Minor.

Presented by M. Costis Lembessis.

XI. Plaster cast of a small copy of the Discobolos of Myron, in the Lancelotti Palace.

Presented by Mrs. Arthur Strong.

XII. Terracotta sling bolt, with reliefs of a trident, a bow, a bull's head, a ram's head, and the letters **ΚΝΦΣ**.

Presented by C. D. Sherborn, Esq.

XIII. Fictile vase (Megarian bowl) decorated in relief with a fluted pattern and a rosette.

Presented by Mrs. Eustace Smith.

XIV.—1. Red jasper gem with an intaglio design representing a galley. Roman work.

2. Marble fragment of relief, representing the bows of a Roman ship. (Daremberg and Saglio, *Dict. Ant.*, s.v. *Navis*, fig. 5277).

Presented by Cecil Torr, Esq.

Arthur H. Smith.

DEPARTMENT OF BRITISH AND MEDIÆVAL ANTIQUITIES AND
ETHNOGRAPHY.I.—*Arrangement, Cataloguing, etc.*

Prehistoric Section.—Additional labels have been provided for the series of French palæolithic implements, and permanent labels for recent acquisitions of British pottery. The cases of German pottery have been cleaned and the contents re-arranged with permanent labels. The table-cases in the Central Saloon have been cleared and the Greenwell collection of the Bronze Age classified and exhibited.

Romano-British Section.—To provide exhibition space for the Greenwell Bronze Age collection, six table-cases have been cleared and the contents exhibited in a series of drawers accessible to the public, below the central table-cases. Permanent labels have been added to the collection of Roman glass.

Anglo-Saxon Room.—An inventory of the contents of 144 drawers below the table-cases has been made, and the remainder of the Greenwell and Edelmann collections stored.

Mediæval Room.—The table-case and wall-cases containing the collection of ivory carvings have been cleaned, and the contents labelled in accordance with the Catalogue. The permanent labelling of other sections has been continued.

Gold Ornament Room.—Progress has been made with the permanent labelling of the Franks Bequest.

Glass and Ceramic Room.—The collection of beads has been removed to make room for the Falcke Collection of Wedgwood ware. The wall-cases containing German stoneware have been cleared and refilled with English and Dutch delft, to provide further space for the Wedgwood collection, which has been cleaned and exhibited in part with permanent labels.

Asiatic Saloon.—Three standard-cases of Chinese porcelain have been cleaned; and pottery and porcelain from Siam and Borneo transferred, as well as a section of Chinese pottery. A number of Chinese architectural ornaments of glazed pottery have been placed above the wall-cases. The collection of armorial porcelain has been re-arranged to allow of the expansion of the purely Chinese wares.

Gallery of Religions.—The Gandhara sculptures and Japanese Buddhist collection have been removed from the northern range of wall-cases for structural alterations.

Ethnographical Gallery.—Five large standard-cases have been cleaned. A portion of the Torday collection from the Congo Free State has been exhibited in the African section, and a large friction-drum from East Africa placed above case 109. In the Pacific section a frame of specimens from the London Missionary Society's collection has been placed on a

screen, and a large steering-oar affixed to the wall above cases 42-6.

American Room.—A large number of plinths and permanent labels have been provided for the collection of ancient pottery from Peru and Mexico.

Registration, etc.—The registration of current acquisitions has been continued, and 4211 objects have been added, including ethnographical specimens.

Photographs to the number of 137 have been taken in the Department for purposes of illustration and reference, and 41 extra prints prepared. Typewritten labels to the number of 317 have been cut and bordered, and 165 printed on the hand-press; 75 mounting boards papered, and 753 objects mounted. There have been prepared 515 blocks, labels, frames, plinths and miscellaneous fittings, besides a number of frames for exhibiting Wedgwood plaques.

Registration numbers have been painted on 5844 specimens, and 803 permanent labels written, besides a series of 375 catalogue numbers.

Catalogues.—The catalogue of ivory carvings was published in March; and the Ethnographical Guide and a new edition of the Ceramic Guide have been revised in proof. Progress has been made with the slip catalogue of the Montagu Guest collection of tickets and tokens; and the slip catalogue of Oriental wares brought up to date.

Students.—Three thousand five hundred and ninety-one students and visitors have been received in the Department.

II.—Acquisitions.

(1.) *Prehistoric and Early British Antiquities:*—

(a.) *Stone Age.*—Palæolithic implement found at Barton, Hants; given by J. C. W. Dod, Esq.

Twelve palæolithic implements and flakes from a pit at Kennet, Cambs.; given by C. R. Jennings, Esq.

Flint arrowhead from gravel and polished scraper from the surface, Dartford, Kent; given by J. Davis, Esq.

Stone axe-hammer of Scandinavian type and slate pendant, found together at Toft Monks, Beccles, Norfolk.

Part of a polished flint celt of exceptional size, found in North Suffolk, 1871; given by J. F. Duthie, Esq.

An exceptional pottery bowl of neolithic date, from the Thames at Mortlake.

(b.) *Bronze Age.*—Two bronze celts and two deer-antler picks from the Thames, also two "drinking-cups" and fragments from Mortlake.

Bronze harness-ring with core, probably from Ireland; given by Dr. C. H. Read, P.S.A.

(c.) *Early Iron Age*.—Enamelled bronze “terret” (harness-ring), from the Thames at Runnymede; given by Dr. C. H. Read.

Iron lance-head with central groove and ferrule, from the Thames at Hammersmith.

Three terra-cotta sling-bolts, found with others at Derry's Wood, Wonersh, Surrey, 1909; given by J. M. Courage, Esq.

(d.) *Foreign*.—A series of flint and other stone implements of palæolithic and neolithic forms, from Sur Baher and other sites near Jerusalem; given by Herbert E. Clark, Esq.

Eight quartzite implements from the N. Arcot and Cuddapah districts, Madras; collected and given by F. Fawcett, Esq.

Three polished stone hammer-heads, pendants of human skull, amber beads, bronze pins and bracelets, and a tin armlet from the site of lake-dwellings at La Lance, near Concise, Lake of Neuchâtel, Switzerland.

Stone axe-hammer and celt, and bronze bow-brooch of about the 6th century B.C., found near Apamea, Asia Minor; given by H. Barfield, Esq., D.Sc.

Bronze spear-head measuring 38½ in., found, with three others, in a grave at Bomarzo, near Viterbo, Italy.

A series of celts, daggers and lance-heads, of copper and bronze, from various sites in Spain.

Bronze penannular brooch from San Salvador mine, near Posadas, Spain; given by J. M. Power, Esq.

(2.) *Romano-British* :—

Silver patera and jug, with small bronze bowl and glass bead, found at a depth of 13 ft. on the site of St. Benet's Church, Gracechurch Street, City of London.

Bronze dish with pair of handles, found in the Thames near Walton, described and illustrated in *Proceedings of the Society of Antiquaries of London*, xxii. 414; given by the late F. G. Hilton Price, Esq., D.R.S.A.

Enamelled bronze brooch, in the form of an Amazon shield, found in 1844 at Castor, Northants, and figured in *Journal of British Archaeological Association*, i. 327; two Roman roofing-tiles, and two jars dredged from Pudding-pan Rock, off Herne Bay, Kent; given by Mrs. Eustace Smith.

Bronze key and toilet articles from the City of London, and brooches of bronze and iron from the Thames.

Bone and horn tools used in making pottery, from Corhampton Down, Hants., and the iron spring of a padlock, found near Wylde, Wilts.; given by Lt.-Col. Hawley, F.S.A.

Spindle-whorl cast in lead, found near Peterborough, Northants; given by C. Shelton, Esq.

(3.) *Anglo-Saxon and Foreign Teutonic* :—

Silver bow-brooch, said to be from Cyzicus, of the 3rd century A.D., showing early Gothic influence; given by Mrs. Eustace Smith.

Bronze crossbow-brooch, buckle and plate with human figures in openwork, and a bronze bead, found in Lake Trasimene, Italy, and figured in *Proc. Soc. Ant.*, xxii. 451; given by P. Carlyon-Britton, Esq., F.S.A.

Two buckles and other small bronzes of the Vandal period, from Beit Jibrin (Bethogabris), the ancient Marissa, Palestine.

Bronze-gilt saucer-brooch of 6th century, obtained in Winchester; given by Mrs. Dalton.

Four enamelled discs, originally attached to a bronze hanging bowl, possibly found in Northumberland, and figured in *Proc. Soc. Ant.*, xxii. 74, figs. 2, 3.

Massive silver penannular brooch with "thistle" terminals and pin $20\frac{1}{4}$ in. long, dating from the 10th century, and found in 1785 between Dacre and Greystoke, Cumberland; figured in *Proc. Soc. Ant.*, xxi. 68, fig. 1.

Iron axe-head, probably of the Viking period, from the Thames at Hammersmith.

(4.) *Mediæval and Later* :—

(a.) *British*.—Bronze knocker with conventionalised lion's head and later iron ring in mouth, late 12th century, from Brazenhead Farm, near Dunmow, Essex; figured in *Proc. Soc. Ant.*, xxii. 380. Given by Henry Oppenheimer, Esq., through the National Art Collections Fund.

Ivory draughtsman with winged figure of an animal, 12th century; given by M. Stora.

Gold finger-ring with emerald in octagonal bezel, 13th century, found in Cloak Lane, City of London.

Brass astrolabe, dated 1326, with separate plates for the latitudes of Oxford, Paris, Montpellier, Rome, Jerusalem and Babylon; remarkable for its unusually early date as a European example and for the high quality of the work.

Leaden matrix of seal of John, son of Wulstan, found in Suffolk, date about 1200; given by Mrs. Allen Sturge.

Bronze pitcher of 14th century, found 20 ft. deep in Spital Square, Bishopsgate, London.

Bronze ink-pot found during excavation in Austin Friars, City of London.

Leather ink-pot, stamped with groups of Saints under Gothic arcading, 15th century, found in London; given by Mrs. Eustace Smith.

Mazer bowl with silver-gilt rim, inscribed **VAS PRECOR ET POTUM CHRISTUM BENEDICERE TOTUM**; date about 1470–80; figured in *Proc. Soc. Ant.*, xxii. 14.

Reproductions of three sepulchral brasses dating from 1490 to 1510; given by Miller Christy, Esq.

Ivory handled knife in original leather sheath, 17th century, found at Banham Hall, Norfolk; given by Lionel Robinson, Esq.

Boxwood medallion of Charles I. supported by cherubs.

Bronze seal matrix of William Dudley, dean of the Collegiate Church of St. Peter, Wolverhampton, 1460-70; described in *Proc. Soc. Ant.*, xxii. 254.

Enamelled gold badge of the Prelate of the Order of the Garter, 17th century; given by Max Rosenheim, Esq., F.S.A., through the National Art Collections Fund.

Ivory snuff-rapp, carved in relief on the back, early 18th century; given by Dr. C. H. Read.

Slab of black stone with bas-relief in the style of a Wedgwood plaque; given by W. G. Kent, Esq.

Snuff-box in the form of a shoe; given by C. R. Jennings, Esq.

Enamelled copper trade label, 18th century; given by Murray Marks, Esq.

Wax portrait-medallions of Wellington and Blücher, the latter signed De Veaux; given by Max Rosenheim, Esq., F.S.A.

Brick incised 1393, found built into a wall at Ditchingham, Norfolk; given by H. Rider Haggard, Esq.

(b.) *Foreign*:—

Pyx of Limoges enamel on copper, 13th century; copper gilt crucifix engraved and jewelled, late 14th century; snuff-rapp, enamelled on copper, about 1630; and a brass bowl covered with zodiacal and cabalistic signs, and characters imitating Arabic; from the Albert Way collection.

Wooden spindle and whorl, with twisted iron ferrule, from the Sabine hills, Italy; given by C. J. Praetorius, Esq., F.S.A.

(5.) *Ceramic and Glass Collections*:—

(a.) *Oriental Wares*.—An important series of earthenware objects from the rock-tombs, graves and pottery refuse-heaps in Szechuan, south-west China, including remarkable bricks with figure subjects in relief in a style typical of the Han dynasty (B.C. 206-A.D. 220). Further specimens were found with coins of the Han dynasty, and others can be dated to the Sung and Ming dynasties. Given by Rev. T. Torrance.

Series of pottery figures of men and animals discovered by the late Lieut. J. W. Brooke in deserted caves in the Lolo country, Szechuan; given by Mrs. J. A. Brooke.

A large and important series of various types of ware found by the donor on the sites of mediæval kilns at Sawankhalok, Siam; given by P. H. Lyle, Esq.

Two clay figures from Japan, made in imitation of ancient sepulchral figures; given by J. S. T. Audley, Esq.

An important series of pottery and porcelain from Shansi, China, including figures, bowls and vases, and model of a Han house, plaques in relief, tiles and architectural details, partly of the Han dynasty.

Porcelain figure, cups and saucers from tombs in Shansi, China; given by Julius Spier, Esq., through the National Art Collections Fund.

Two stoneware urns with yellow glaze, used as cinerary urns, from Fuchow, China, figured in *Journ. Brit. Arch. Assoc.*, xxvii. 343, pl. xvii; given by Dr. C. H. Read.

Stoneware vase, partly glazed, from China, of the Sung dynasty or earlier; given by G. Eumorfopoulos, Esq.

Two standing figures of pottery, early Chinese, and glazed bowl of the Sung dynasty.

Series of porcelain, stoneware and pottery collected in China by the late Dr. S. W. Bushell, C.M.G., one vase inscribed with date, 2nd year of Wu fêng (= B.C. 56).

Pottery bottle and saucer with turquoise glaze and two vases with celadon glaze, one repaired with lacquer; Chinese.

Abacus of Chinese porcelain, 16th century; given by Edward Dillon, Esq.

Stoneware saucer with celadon glaze and white inlay, from a tomb in Corea; given by C. W. Everard, Esq.

Stoneware vase with pale green glaze and applied figures, early Chinese, probably used for funeral purposes, given by Dr. C. G. Seligmann.

Three similar Chinese stoneware vases.

Octagonal porcelain plate, Chinese, with arms of Lane and escutcheon of Clark; given by John Lane, Esq.

(b.) *Continental*.—Five bowls of Mediterranean graffito ware, from Cyprus.

Six pottery jugs, highly ornamented, mediæval Sicilian.

Five square tiles of Dutch delft, 18th century; given by C. R. Jennings, Esq.

Jug of German red ware with coats of arms, 17th century, and dish of "Rouen" ware, 18th century; given by Sir Henry Howorth, K.C.I.E.

(c.) *English*.—The most important acquisition of this year is the collection of Wedgwood ware given by Mr. and Mrs. Isaac Falcke and noticed under Section IV. below.

Delft posset-pot of Lambeth ware with coats-of-arms, the initials I.C. and date 1668; given by A. A. De Pass, Esq., through the National Art Collections Fund.

Tyg of Wrotham ware, with initials I.E. and date 1698.

Delft mug of Bristol ware with landscape; given by C. R. Jennings, Esq.

Pottery floor-tile with pattern in yellow, found on the site of St. Benet's Church, Gracechurch Street, City of London.

Porcelain cup and saucer, said to be from Torksey factory, Lincs.; given by Major Vipan.

Porcelain ink-pot of Crown-Derby ware; given by Miss Wright.

Lowestoft ware ink-pot, inscribed *A trifle from Lowestoft*, about 1780 ; given by Dr. C. H. Read.

Specimens shewing the comparative fusibility of Bow, Chelsea and Worcester porcelains ; given by Herbert Eccles, Esq.

Stoneware tubes, said to have been used by the Elers brothers as part of a speaking-tube connecting their pottery works with their house at Bradwell, Staffs., about 1690 ; given by B. T. Harland, Esq.

Note-book containing the accounts of William Duesbury (1751-3), the founder of the Derby China-Works, for work done as an enameller in London ; and a collection of account books, letters, documents, and original deeds concerning the Duesbury family and the Derby and Chelsea factories ; bequeathed by William Bemrose, Esq.

(d.) *Glass*.—Jug, vases and twisted rod, from various sites in Palestine, of the Roman period.

Armlet, found on an island in a marsh near Dinais (Apamea), Phrygia ; given by H. Barfield, Esq., D.Sc.

Three armlets from Mokht, a village on the Sirha river near Geh, south-east Persia ; described in *Geographical Journal*, 1897, p. 585 ; and given by Major P. M. Sykes.

Two phials of the 15th century, found on the site of St. Benet's Church, Gracechurch Street, City of London.

Wine-bottle, with stamp "1770, James Oakes, Bury" ; given by C. R. Jennings, Esq.

Casket made of cylindrical rods ; given by Albert Ellis, Esq.

A "yard of ale," 40 in. long, of the 18th century.

(6.) *Collection illustrating various Religions* :—

(a.) *Buddhism*.—Stone model of a temple, Ch'ên dynasty (557-587 A.D.), and stone carvings with figures, of the Sui and T'ang dynasties (589-905 A.D.), from Shansi, China.

Stone figure of Buddha seated, obtained at Nowshera, N.W.P. India ; given by Lt.-Col. Charles Grant.

Five clay sealings, excavated on the site of Kasiâ, Gorakhpur district, inscribed "Convent of the Great Decease," dating about 750-900 A.D., and described in *Journal of Royal Asiatic Society*, 1907, pp. 365, 1049 ; given by Dr. J. Ph. Vogel.

Five clay sealings, from a niche in a chorten at Gya, Ladakh, Indus valley ; given by Lt.-Col. C. H. Melville.

Series of Lamaistic bronze figures and two temple pictures, collected by the late Lt. J. W. Brooke in China ; given by Mrs. J. A. Brooke.

Bronze Buddhist figure with cobra canopy, probably Cambodian.

Japanese wooden figure of Buddha ; given by R. H. Benson, Esq.

Two Bo leaves (*Ficus religiosa*) from the sacred grove at Anaradhapura, Ceylon; bequeathed by Dr. W. M. Buxton.

(b.) *Brahmanism*.—Alabaster figure of Ganesa, coloured and gilt, from Delhi; given by Mrs. Johnston.

(7.) *Oriental and Ethnographical*:—

Asia.—Cake of Chinese ink, steelyard, abacus and astronomical instrument from Japan; given by Edward Dillon, Esq.

Chitrali coats and stockings and an Assamese bag; given by Lady Gatacre.

Jade armband and wooden comb from China, from the collection of the late S. W. Silver, Esq.; given by the Council of the Linnean Society.

Painted drum, and mandarin's hat and hat-box, from China; given by J. Edge Partington, Esq.

A collection of photographic negatives illustrating the ethnography of the Andaman Islands; given by M. V. Portman, Esq.

Bronze objects said to have been found at Kasvin, Persia; given by H. L. Rabino, Esq.

Two Coptic combs from Akhmin, and a slate disc with busts from Damanhur, Egypt; given by C. H. Read, Esq., LL.D., P.S.A.

Sword-stand (*Katana-kake*) bearing crest of a daimyo of the Numadzu or Nakatsu province; given by Mrs. Eustace Smith.

Two Japanese steelyards, and ten bones inscribed with ancient Chinese characters, from Shansi, North China; given by J. Spier, Esq.

Cast of a Japanese netsuké representing a juggler with a monkey; given by Percy A. Wynn, Esq.

A bronze gong, with inscription "Made by Chung-fu in the 7 moon of 4 year of reign Chien-hsing" (A.D. 226).

Ethnographical series from the Ainu of Yezo, Japan.

Africa.—A large and very important collection illustrative of the ethnography and art of the Bushongo tribes in the Kasai District of the Congo State; this collection, which is part of the material acquired by the ethnographical expedition under the leadership of Mr. E. Torday, includes two portrait-figures of deceased chiefs in wood, a large series of carved wooden vessels, and a collection of embroidered cloths of a quality superior to any yet obtained from Africa.

The contemporary portrait-figure of Shamba Bolongogo, 93rd Great Chief of the Bushongo nation (c. 1600 A.D.), Kasai district, Congo State. (See *Man*, 1910, 1.) Also a number of throwing-knives from the Shari watershed; given by E. Torday, Esq.

Three steatite carvings from Mendiland, West Africa; given by Major G. D'Arcy Anderson.

Six bronze currency-rings (*manilla*), from Southern Nigeria ; given by the Crown Agents for the Colonies.

A dervish sword with inscription on blade, and three jibbehs, from Atbara and Omdurman ; given by Lady Gatacre.

Pair of Arab slave-stocks, from Mombasa ; given by A. C. Hollis, Esq.

Ivory ear-ornament from East Africa and engraved gourd from Madagascar. (From the Collection of the late S. W. Silver, Esq.) ; given by the Council of the Linnean Society.

A series of ancient Benin bronzes, discovered in the earth on the Forcados River, Southern Nigeria ; also three bracelets from Lokoja, and one from Sabogrega on the Niger ; given by Lady Macdonald.

The outfit of a fetish man, Karina district, Sierra Leone ; given by W. St. John Oswell, Esq.

A wooden Munshi fetish-figure, and four Kanuri dolls from Bornu, Nigeria ; given by Dr. Parsons.

Three knives and a spear-head from Algeria ; given by Mrs. Eustace Smith.

An ethnographical series from British Central Africa.

A shirt of chain mail obtained in Northern Nigeria.

An ornamental post of cast bronze from Benin, Southern Nigeria.

Oceania.—A large wooden food-bowl, 14 ft. long, from Rarotonga ; given by E. Gruning, Esq.

An ethnographical series from the New Hebrides ; given by Admiral Leah.

A jade adze-blade from New Zealand (from the Collection of the late S. W. Silver, Esq.) ; given by the Council of the Linnæan Society.

An outrigger canoe from Samoa ; given by the London Missionary Society.

America.—A very important series of 250 pottery vases from ancient graves in Peru, given through the National Art Collections Fund by Henry Van den Bergh, Esq.

This valuable collection illustrates the remarkably high standard of artistic excellence attained by the ancient Chimú potters, both as regards form and decoration. Many of the vases are in the shape of human heads and figures, and afford evidence regarding such subjects as costume, painting, the wearing of lip and nose ornaments and masks. Others are moulded to represent various birds and beasts. A large number are covered with painted designs, among which occur scenes from certain religious dances, combats between masked warriors, and pictures of men engaged in hunting and fishing. The collection also includes a number of large bowls with moulded and painted decoration, and three pottery horns for signalling or for ceremonial use. The vases are the more

interesting owing to the fact that they were made by hand, without the aid of a wheel, and remarkable skill is exhibited in the symmetry of their forms; in those vases moulded to represent figures of men and animals is seen a freedom of treatment and a realism rare in primitive art, and, in the best specimens, a vigour which would not be unworthy of the Japanese. The majority of the vases are of red pottery, covered with a cream-coloured slip, but a number of specimens of black ware with a highly polished surface are included in the series. This gift is a most valuable addition to the Museum Collection, as affording in itself a comprehensive illustration of the fictile and pictorial arts of the Chimu peoples of Ancient Peru.

Two axes with stone blades, from the Guayaqui Indians of the Ipety River, Paraguay; given by W. C. C. Eyton, Esq.

A series of antiquities from Peru, including a mummified figure and a number of pottery vases, from the collection of the late Charles Smith, Esq.; given by Lady Gilbert.

A series of ancient sculptures from Mexico; given by A. Grimwood, Esq.

Stone implements from North America (from the collection of the late S. W. Silver, Esq.); given by the Council of the Linnæan Society.

Vol. III. of the "Codex Borgia," edited by Dr. Ed. Seler; given by the Duc de Loubat.

A series of ancient stone carvings and a silver image from Peru.

A series of stone arrow-heads and other objects from Canada.

A collection of ancient pottery vases from graves in Costa Rica.

III. THE GREENWELL COLLECTION.

In January the important collection made by Canon Greenwell of Bronze Age antiquities from Britain and abroad was acquired by Mr. Pierpont Morgan and generously presented to the Museum. This addition may be said to complete the British series, and to fill most of the gaps in the foreign section exhibited in the Bronze Age Room.

During half a century Canon Greenwell has acquired nearly 2500 specimens of bronze, the majority of which are now exhibited in the table-cases of the Central Saloon at the head of the principal staircase, space having been procured by the temporary withdrawal of part of the Romano-British series formerly in those cases and by the transference of the remainder to drawers accessible to the public in the same saloon. The Greenwell collection of Bronze Age pottery, and other remains from the grave-mounds opened by the Canon in Yorkshire and other parts of England, was presented by him to the Museum in 1879 and comprised more than 2000 specimens, which have

been exhibited since that date in wall-cases 21-30 and table-case F in the Bronze Age Room.

Mr. Morgan's gift will eventually be incorporated with the other series of the Bronze Age; but, till further space is available, it is placed in six table-cases, which may be briefly described in order:—

A. Short swords and spear-heads (one measuring $38\frac{1}{2}$ in.), celts in chronological order and socketed axe-heads, also brooches of the Early Iron Age, all from Italy. Celts, sickles, axe-heads and a dagger of the Hallstatt period from Austria-Hungary. Celts, long pins, spear-heads, sickles, torcs and bronze mould for celts, and an enormous ceremonial dagger-blade, from France.

B. Copper tanged blades from Cyprus, daggers from Jerusalem and Gezer, and axe-heads with oval openings from Syria. Swords and a rapier from the Thames, and swords from the British Isles and foreign countries. Torcs, celts, armlets and spear-heads from Germany, and celts, tweezers, razors, daggers, and a fine sword from Denmark.

C. Miscellaneous objects: neolithic stone implements, Late Keltic bronzes and Roman brooches from England; neolithic amber beads from Denmark, and flints of Egyptian types from Palestine; axe-heads from Peru, Ecuador and India (Gungeria), a Chinese spear-head dated A.D. 761, and Early Iron Age swords and brooches from Spain.

D. Rapiers, daggers, halbert blades and sword-chape, spear-heads (one measuring $31\frac{1}{2}$ in.), and lance-heads from England and Ireland. In drawers below this case, bronze celts from the British Isles arranged in chronological order under counties; and flint implements from the Thames, Ireland and abroad.

E. Trumpet, halbert blades, ornamented and socketed celts, spear-heads, moulds for casting bronze, and a series of rings, all from Ireland. Fourteen hoards of bronze from England, mould for flat celts and another of bronze for palstaves, lance and spear-heads, and a saw, all from Britain. Celts, chisels, sickles, sword-chapes, daggers, chisels and pins from the Thames.

F. Celts, spear-heads (one of the 5th century B.C. inscribed), arrow-heads and daggers from Greece, the Ægean and Asia Minor. Celts, including several with two loops from Spain, and the outfit of a family inhabiting Heathery Burn Cave, co. Durham, at the end of the Bronze Age. A series from the lake-dwellings of Switzerland, including a fine sword; and two axes with original wooden shafts, two daggers with ivory pommels, axe-heads and flint knives of beautiful workmanship, all from Egypt.

IV. THE FALCKE COLLECTION.

The most important ceramic acquisition of the year is the large and representative collection of Wedgwood wares presented in June by the late Mr. Isaac Falcke and his wife. It

includes examples of almost all Wedgwood's manufactures, from the cream ware table-services to the most elaborate ornamental works in jasper wares of various colours.

Among the latter a remarkable set of green vases with bas-reliefs in white and a series of plaques with ornament in relief on blue, green or black grounds are most conspicuous; while the most interesting individual specimen is a copy of the Portland vase in black and white jasper ware, numbered 4, and belonging to the first issue of these celebrated reproductions.

The blue and white jasper ware includes sets of vases, several rare objects with figures modelled in the round used as candlesticks and lamps, besides flower-pots, ink-pots, salt-cellars, wine-coolers and tea wares, which show the application of this fine material to daily use. The black "basaltes," or Egyptian black, ware is represented by a remarkable vase on a drum pedestal, with subject (the crowning of a Kitharist modelled by Flaxman from the antique) in low relief, the cover surmounted by a figure of Pegasus; two ewers with emblematic figures of Wine and Water, also by Flaxman; a few small vases and a series of busts, including Flaxman's Mercury. The same black material forms the ground for "encaustic" painting in dull enamels, after the Etruscan vases; and there are a few examples of red reliefs on a black ground.

The useful wares are chiefly in the form of plates and dessert dishes in cream ware, and pearl or white ware, decorated with painting, printing and, more rarely, with lustre marbling. Another use of the cream ware is shown in a series of marbled vases imitating agate and other variegated stones, the mottled effect being produced by coloured clays, either applied in a liquid state to the surface or incorporated in the body.

Among the most beautiful productions of Wedgwood's factory are the smaller articles in coloured jasper wares and white biscuit, such as cameos, intaglios, portrait medallions and plaquettes. The Falcke Collection contains a rich series of these, many of them set in faceted steel or mounted in writing-boxes, clocks, watches, snuff-boxes, étuis and châtelaines, illustrating the uses for which these dainty objects were destined.

The designs of John Flaxman are well represented, and include proofs of two important bas-reliefs and of a number of portrait medallions, besides a few original waxes. Other artists whose designs occur are Lady Templetown, Miss Crewe, Lady Diana Beauclerk, Mrs. Landre, Hoskins, Tassie, Hackwood, Webber, Pacetti, Davaere and Dalmazzoni.

The bulk of the collection belongs to the best period of Wedgwood manufacture, viz., from 1760-1800, and most of it was acquired by Mr. Falcke before 1856.

The munificent gift of Mr. and Mrs. Falcke is all the more welcome as the Wedgwood Collection in the Museum, though choice, was previously very small. It is now probably the finest in existence.

V. CHRISTY COLLECTION.

During the year, 572 objects have been entered in the Registration Catalogue. The Christy Trustees have acquired by donation and purchase the following objects, which they have transferred to the Trustees of the British Museum:—

I.—*Prehistoric Antiquities of Europe, Asia, and Africa*:—

Donations.—Two stone celts, found while dredging the Ofin River, Ashanti; given by F. N. Best, Esq.

A stone celt from Ashanti; given by F. H. Charlton, Esq.

A stone mortar found near Lake Rudolf; given by the Hon. K. Dundas.

A series of obsidian flakes from Nairobi, East Africa Protectorate; given by A. F. Harrison, Esq.

II.—*Ethnography of Asia*:—

Donations.—A steel priming-flask from Persia; given by A. W. F. Fuller, Esq.

Whip, purse and leather cup-case from Fergana, given by Michael Ivanovitch, Esq.

A stone flake from Ceylon; given by J. Parsons, Esq.

III.—*Ethnography of Africa*:—

A human head carved in steatite, from Sierra Leone; given by Major G. D'Arcy Anderson.

A juju bell from Benin; given by Sir Mackenzie D. Chalmers, K.C.B.

Basket of coiled vegetable fibre and leather; given by W. Crewdson, Esq., F.S.A.

A string of beads from the Munshi of Takum, and a Hausa pouch, obtained from a native of Ibi, Southern Nigeria; given by E. Dayrell, Esq.

A series of fetish objects taken in Ashanti in 1908, when the Abirowa fetish was destroyed; and a small bronze figure obtained from an itinerant Ashanti goldsmith; given by Captain F. C. T. Ewald.

A chief's staff from Togo; given by A. W. Fuller, Esq.

An old glass bead from Liberia; given by W. Hinton, Esq.

A carved wooden mask and two fetish figures from West Africa; given by Mrs. Hunting.

A string of beads from King Prempeh's residence, Ashanti; given by Major F. A. Liston.

Three hide shields from Angoniland; given by Mrs. McKay.

Scales and weights for gold dust and other objects from Ashanti; given by the Rev. J. Pole-Carew, Esq.

A wooden club from the Sudan; given by Mrs. Read.

A wooden figure carved by a MuGanda for King Sunna from Uganda; given by the Rev. J. Roscoe.

A series of carved wooden figures and other objects from British Central Africa ; given by Dr. H. S. Stannus.

Two pots from the Kabyles of Algeria ; given by A. G. White, Esq.

Purchase.—A large and very important ethnographical series from a number of tribes on the Lukenye and Sankuru Rivers in the Congo Free State, including the BaSonge, BaTetela, BaSonge Meno, BaNkutu, Akela, and Isambo. The ethnography of many of these tribes has been hitherto quite unknown, and the collection, which is part of the material collected by the recent ethnographical expedition under the leadership of Mr. Torday, sheds considerable light on many questions before imperfectly understood.

IV.—*Ethnography of Oceania and Australia* :—

A modern hat from Hawaii ; given by M. Brasch, Esq.

Fire-sticks used by the aborigines of Queensland ; given by the Rt. Rev. the Bishop of Carpentaria.

A large wooden Kava-bowl from Samoa ; given by Mrs. Fergusson.

A stone-headed axe from New Caledonia ; given by John Lang, Esq.

A spear edged with sharks' teeth, from the Gilbert Islands ; given by B. H. Webb, Esq.

A number of objects from Melanesia, principally from the Solomon Islands, including a canoe-figure head, a dance-shield, varieties of shell and feather currency, &c. ; given by C. M. Woodford, Esq.

V.—*Antiquities and Ethnography of America* :—

A series of objects from ancient graves in Peru ; given by the Countess of Donoughmore.

A large ancient pottery vase from Peru ; given by A. W. F. Fuller, Esq.

Nine beads of shell, stone and wood, from ancient graves at Truxillo, Peru ; given by Mrs. A. Gibbs.

Three ancient vases of black pottery, from Peru ; given by B. T. Harland, Esq.

Bows, arrows, blow-gun and darts from Brazil ; given by W. H. Hildreth, Esq.

Model of an Essequibo house with furniture, South America ; given by R. Martin-Holland, Esq.

A stone-celt found on a plantation at Soufrière, Dominica ; given by S. Noel Simmons, Esq.

Charles H. Read.

DEPARTMENT OF COINS AND MEDALS.

I.—*Registration and Arrangement.*1. *Greek Series*:—

1047 coins, of various parts of the Greek world, recently acquired, have been registered and incorporated.

Rectifications have been made in the series of the coins of ancient Spain, and the series of Elymais has been expanded, with fresh heading-cards.

The series of the coins struck by Alexander the Great, or in his name by his successors, have been rearranged so as to bring all the Alexandrine coinages together.

A number of plaster casts, including some of coins in foreign sales, have been incorporated in the collection of casts and electrotypes.

Eight series of miscellaneous Greek coins and several sale-catalogues have been examined and selections made for the Museum.

The MS. bibliography of numismatics has been continued and brought up to date.

The Indices of magistrates' names on autonomous and Imperial Greek coins in various volumes of the printed catalogue have been combined, and mounted in two volumes to facilitate reference.

2. *Roman and Byzantine Series*:—

640 coins recently acquired have been registered and incorporated.

A hoard of 199 Roman silver and base metal denarii, chiefly of the 1st and 2nd centuries A.D., found on Shard End Farm, Castle Bromwich, and declared to be treasure-trove, has been examined and a selection from it made for the Museum. Rectifications have been made in the coinage of the Emperor Zeno.

1427 tickets referring to the Catalogue of Imperial Byzantine coins have been written and placed beneath the coins, completing the work.

3. *British and Colonial Series*:—

460 coins, medals, tokens and tickets, recently acquired, have been registered and incorporated.

The series of the coins of William I., William II., Henry I., Stephen and Henry II. have been expanded and rearranged, with new heading-cards. A list has been drawn up of the types, mints and moneys of these reigns and references inserted in the trays to specimens not represented in the Museum collection.

The casts and electrotypes of coins of the Norman series have been classified.

The coins of Richard II. and Henry IV. have been re-arranged and new heading-cards have been added.

Two series of short-cross and long-cross pennies have been examined and selections made for the Museum. The sale catalogues of the Rashleigh, Hilton Price, and other collections have been examined.

A hoard of 236 English shillings and sixpences (Edward VI.—Charles I.), found at Constable Burton, Yorkshire, and declared to be treasure-trove, has been examined and a selection made for the Museum.

The general series of English medals from 1612 to 1642 has been rearranged and expanded.

The Scottish Communion Tokens have been identified and arranged.

4. *Mediæval and Modern Series*:—

1133 coins, medals and jetons, recently acquired, have been registered and incorporated.

Rectifications have been made in the Visigothic and Merovingian series, and, as regards attribution and arrangement, in the series of Italian medals of the Renaissance period.

The coins of the Carolingian Kings of France and Germany have been re-arranged, and cross-references inserted to the specimens in the Cuerdale hoard.

The series of French regal coins has been rearranged with new heading-cards and expanded to five cabinets. The series of French jetons and méreaux has also been re-arranged with new heading-cards and expanded to four cabinets.

The series of German coins of large size has been expanded from nine to twelve cabinets, and the series of small coins from eleven to fifteen cabinets.

The Russian medals from 1796 to the present day have been arranged and supplied with explanatory cards.

The large collection of German thalers, Italian scudi, etc. formed by the late Sir Maurice Holtzmann was examined and a list made of specimens desirable for acquisition by the British Museum.

The Catalogue of the Hazlitt sale was examined and a selection made of desirable coins.

The MS. indexes to the five volumes of the *Traité de Numismatique* of Engel and Serrure, compiled for use in the Department, have been completed and placed in the binder's hands.

A MS. subject-list of works on medals, jetons and metallic tickets of all countries has been compiled for handy reference in the Department and sent to the binder.

5. *Oriental Series* :—

731 coins, recently acquired, have been registered and incorporated.

1000 tickets referring to the Catalogue of the Andhras and Western Kshatrapas have been written and placed beneath the coins.

85 coins hitherto regarded as "Uncertain" have been identified.

11 collections of Oriental coins (Guptas, Chinese, &c.) have been examined and selections made for the Museum.

The local issues of North-West and Central India and the coins of the native States of Rajputana have been more minutely classified and supplied with additional heading cards. The series of Indian local coinages has been expanded from two to three cabinets.

146 coins of the Gupta dynasty have been weighed.

The coins of Madura have been arranged chronologically.

The coins of Afghanistan, Kashmir, and the various Sikh issues of the Punjab, have been classified under kings and mints.

Rectifications have been made in the series of Assamese coins, and the series of Nepal has been expanded. New heading-cards have been supplied where required.

The series of the coins of Georgia has been expanded and provided with new heading-cards.

6. *Exhibitions and General Arrangements* :—

A selection from the recent acquisitions of the Department likely, on various grounds, to be of general interest has been arranged with labels in a special exhibition-case placed at the entrance of the Medal Room.

The collection of casts and moulds of Greek, Roman and other coins in foreign museums has been removed from the electrotypists' workshop in the Basement and placed in glass cases in one of the upper rooms of the Department of Coins, where it can be referred to more conveniently.

II.—*Catalogues.*

1. CATALOGUES OF GREEK COINS.

Coins of Phoenicia, by G. F. Hill.

The coins of Ace-Ptolemais have been arranged and described. The Introduction has been completed and the MS. of the text revised for the printer. Signatures B-D have been passed for press.

Coins of Galilaea, Samaritis, and Judaea, by G. F. Hill.

504 coins have been weighed in preparation for this Catalogue.

2. CATALOGUES OF ROMAN AND BYZANTINE COINS.

Roman Republican Coins, by H. A. Grueber.

Volume II., from Sig. 3 c to the end, has been sent to press. The Introduction has been written and sent to press; and Plates cxiii to cxxiii have been prepared and passed for press. The Index to Volume I. has been completed in MS. and progress has been made with the Index to Volume II.

Coins of the Vandals, Ostrogoths, and Lombards, and of the Empires of Nicaea, Trebizond, etc., by Warwick Wroth.

The following series have been finally arranged and described:—Ostrogothic kings and miscellaneous coins of the period of the Ostrogoths; Lombard kings; dukes and princes of Beneventum; emperors of Thessalonica and of Nicaea. A preliminary arrangement has been made of the whole coinage of the Empire of Trebizond and the coins of John I. have been described. Plaster casts have been prepared of coins in the Vandal and Ostrogothic series.

3. CATALOGUES OF BRITISH COINS AND MEDALS.

Medallic Illustrations of the History of Great Britain and Ireland, by Hawkins, Franks, and Grueber.

The compilation of Part X. has been completed and this Part has been published. Part XI. has also been prepared and published. Part XII. is in preparation.

III.—Acquisitions.

The total number of coins and medals added to the Department during the year 1909 was 2495, of which 129 are of gold, 767 of silver, 1549 of bronze, and 50 of other metals.

The following table shows the numbers of the new acquisitions, classified according to the several series to which they belong:—

Class.	Gold.	Silver.	Bronze.	Other Metals, &c.	Total.
Greek	12	106	605	—	723
Roman	5	17	395	—	417
British and Colonial	44	217	69	32	362
Mediaeval and Modern	49	227	123	17	416
Oriental	19	200	357	1	577
Total	129	767	1,549	50	2,495

Of the above, 1453 have been presented, viz., 43 of gold, 291 of silver, 1079 of bronze, and 40 of other metals.

The following is a list of benefactors to the Department of Coins during the past year:—

The Royal Asiatic Society; the Royal Geographical Society; the Deputy Master of the Mint; His Worship the Mayor of Newcastle, N.S.W.; the Bombay Branch of the Royal Asiatic Society; the Government of the United Provinces, India; the Director of Agriculture, Central Provinces, India; les Directeurs de la Fondation Teyler à Harlem; the German Section for Arbitration of the Inter-Parliamentary Union; the Rector of the University of Oviedo; the Hudson-Fulton Celebration Committee, New York; E. R. Adams, Esq.; T. T. Barton, Esq.; E. Neil Baynes, Esq.; M. le Sénateur Luca Beltrami; F. Bowcher, Esq.; Messrs. Burroughs, Wellcome and Co.; H. Chapman, Esq.; Dr. H. J. de Dompierre de Chaufepié; E. G. S. Churchill, Esq.; O. Codrington, Esq., M.D.; Signor G. Dattari; Miss L. Eckenstein; Oscar Eckenstein, Esq.; A. J. Evans, Esq., F.R.S.; F. Fawcett, Esq.; Mrs. J. Francis; M. Gambia, Esq.; H. T. Grogan, Esq.; H. A. Grueber, Esq., F.S.A.; Mrs. H. A. Grueber; R. J. E. Hanson, Esq., Hon. Sec. of Earl Roberts's Imperial Trophy Competition; F. W. Hasluck, Esq.; P. Hemingway, Esq., I.C.S.; Sir Henry H. Howorth, K.C.I.E.; George P. Knapp, Esq.; Taw Sein Ko, Esq.; L. A. Lawrence, Esq.; R. H. Legge, Esq.; Captain D. L. Lorimer; Rev. W. P. Macdonald; W. Minet, Esq.; J. P. Moquette, Esq.; H. B. Morse, Esq.; M. George Morviano; Miss E. Napier; C. Okker, Esq.; S. Oppenheimer, Esq.; Señor Don G. J. de Osma; S. E. Pears, Esq., I.C.S.; J. ff. Baker-Penoyre, Esq.; R. G. L. Phelps, Esq.; M. R. Pryor, Esq.; H. L. Rabino, Esq.; A. P. Ready, Esq.; Miss E. C. Cramer Roberts; Max Rosenheim, Esq., F.S.A.; H. Samuel, Esq.; Rev. Canon Stenning; R. Sutcliffe, Esq.; H. Symonds, Esq.; H. H. Thompson, Esq.; R. Campbell Thompson, Esq.; Miss G. B. Gibson Thomson; Mrs. M. E. Thornton; W. Turner, Esq.; W. H. Valentine, Esq.; M. P. Vlasto, Esq.; A. J. B. Wace, Esq.; P. B. Warburton, Esq.; P. H. Webb, Esq.; Sir H. Weber, M.D.; Lieut. A. T. Wilson; A. M. Woodward, Esq.; Dr. H. Woodward, F.R.S.; Col. L. Worthington-Wilmer; M. B. M. Yakountchikov.

IV.—*Remarkable Coins and Medals.*

1. *Greek Series*:—

(a) *Europe*:—

Italy.—Lucania.—Thurium—A rare bronze coin; *obv.* Head of Zeus r.; *rev.* ΘΟΥΡΙΩΝ Eagle standing l. on thunderbolt. (Garrucci, Pl. cvii. 3).

Presented by Sir H. Weber, M.D.

Calabria.—Tarentum.—A rare drachm (55·6 grs.), with the magistrate's name ΦΙΛΙΑΡΧΟΣ.

Presented by M. P. Vlasto, Esq.

Sicily.—Agrigentum.—An apparently unpublished bronze coin of the 5th century B.C.; *obv.* Eagle's head r.; *rev.* Crab's claw; inser. [AKPA]ΓAN retrograde.

Thrace.—King Mostis (c. 200 B.C.).—A rare bronze coin; *obv.* Head of Apollo; *rev.* Caduceus.

Thasos.—A very debased barbarous imitation of the silver tetradrachm; *obv.* Head of young Dionysos; *rev.* Heracles. Found at Kharput in Armenia.

Presented by G. P. Knapp, Esq.

Thessaly.—Scotussa.—A silver drachm (*circa* 400–367 B.C.); *obv.* Head of Heracles in lion's skin; *rev.* ΣΚΟ. Forepart of horse. 45·4 grains.

Pannonia.—A series of silver staters imitated from the coinages of Philip II. and Philip III.; *obv.* Head of Zeus; *rev.* Horse or horseman; and *obv.* Head of Heracles; *rev.* Zeus seated.

Spain.—A large series of silver and bronze coins, attributed to various Celtiberian mints, and to cities, such as Cæsaraugusta, Bilbilis, Calagurris, Carthago Nova, Celsa and Tarraco, under Roman rule.

Britain.—A gold quarter-stater (21 grs.) of Cunobelin, struck at Camulodunum; *obv.* CAMVL on tablet across wreath; *rev.* CV two horses galloping; and another (16 grs.) of uncertain mint: *obv.* plain; *rev.* ornamental design.

(b) *Asia and Africa*:—

Mysia.—Pergamum.—An unpublished bronze coin of the regal period; *obv.* Laureate head of Philetaerus r.; *rev.* [Φ]ΙΛΕΤΑΙ Female figure seated l. on pile of arms, placing a wreath on the king's name.

Lesbos.—An electrum sixth (36·2 grs.); *obv.* Head of Athena r.; *rev.* Two female heads l. and r., one superposed on the other. Only one other specimen of this coin has been published.

Lycia.—A remarkable series of nine silver staters and smaller denominations of the earliest period (*circa* 520–480 B.C.); *obv.* Fore-part of boar; *rev.* Incuse square variously decorated.

An apparently unpublished stater of the 5th century B.C.; *obv.* Lion, r., head reverted; *rev.* Fore-part of bull l., in dotted incuse square.

A rare bronze coin of Gordian III., struck at *Candyba*; *rev.* ΚΑΝΔΥΒΕΩΝ Tyche standing; and another of the same Emperor at *Phellus*; *rev.* ΦΕΛΛΕΙΤΩΝ Aphrodite, veiled, holding an apple.

An unpublished silver didrachm (126 grs.), with types imitated from the Athenian coinage, perhaps struck in Lycia or Cilicia.

Syria.—Antiochus IV. (B.C. 175–164); *obv.* Head of the king r., diademed; *rev.* ΒΑΣΙΛΕΩΣ ΑΝΤΙΟΧΟΥ ΘΕΟΥ ΕΠΙΦΑΝΟΥΣ ΝΙΚΗΦΟΡΟΥ Zeus seated l., holding Nike. Gold stater, 132·3 grs. Of this extremely rare coin only one other specimen appears to have been published.

Decapolis.—Canatha.—A bronze coin of Commodus; *rev.* Genius standing.

Phoenicia.—Sidon.—A rare half-shekel of King B(odash-tart?), of the early 4th century B.C.

Judaea.—A large bronze coin of the second revolt (A.D. 132); *obv.* Inscription in Hebrew "Simon Nasi Israel" within a wreath; *rev.* Inscription: "First year of the Redemption" around a vase.

Mesopotamia.—Seleucia ad Tigrim.—A rare bronze coin, struck in the month *Gorpiaios* of the year 326 (= A.D. 14–15).

Nabathaea.—A silver drachm (71 grs.) with portraits and names of King Aretas IV. and his queen Huldu (B.C. 9–A.D. 40).

Parthia. — *Unknown King* (before *circa* 57 B.C.). A tetradrachm, extremely rare; *obv.* Bust of the King l.; *rev.* ΒΑΣΙΛΕΥΣ ΜΕΓΑΛΟΥ ΑΡΣΑΚΟΥ ΦΙΛΟΠΑΤΟΡΟΣ ΕΥΕΡΓΕΤΟΥ ΕΠΙΦΑΝΟΥΣ ΦΙΛΕΛΛΗΝΟΣ Arsaces seated r. Wt. 220 grs.

Six silver drachms of various kings, found at Shushtar, south-west Persia. *Presented by Lieut. A. T. Wilson.*

Six silver drachms of various kings, from Hamadān.

Presented by Capt. D. L. Lorimer.

Elymaïs.—269 bronze coins of various kings, of which 216 are from a find at Shush, near Dizful.

Presented by Lieut. A. T. Wilson.

Egypt.—A gold drachm (53·2 grs) of about 250 B.C.; *obv.* ΑΔΕΛΦΩΝ Busts of Ptolemy II. and Arsinoë II. r. jugate; *rev.* ΘΕΩΝ Busts of Ptolemy I. and Berenice r. jugate. Only one other specimen is known.

Cyrene.—Two gold $\frac{1}{10}$ staters; (a) *obv.* Head of nymph; *rev.* Head of Zeus Ammon; (b) *obv.* Young head (of Aristaeus?), with ram's horns; *rev.* Head of nymph.

2. Roman Series:—

A specimen of the rare bronze dupondius, struck at Capua; *obv.* Head of Minerva in crested helmet; *rev.* Prow; KA in monogram; *symbol*, ear of corn. This differs from other published specimens in bearing the monogram, which identifies the mint as Capua.

A finely preserved and patinated bronze triental As of very rude style, with the prow on the reverse to l. instead of r. From the Hazlitt Collection

A good specimen of the uncial As of Cn. Cornelius Blasio; *rev.* Victory erecting trophy. Struck in 91 B.C. From the Hazlitt Collection.

A copper coin struck at Zacynthus by the general C. Sosius, *circa* 33 B.C.; *obv.* Head of Apollo; *rev.* Tripod. The fourth known specimen.

Vespasian.—Aureus; *rev.* IMP. XIII. Bull r. Wt. 110·6 grs. From the O'Hagan Collection.

14 Imperial denarii (Nerva to Commodus), from a find at Castle Bromwich.

Commodus.—Aureus; *rev.* NOBILIT. AVG. P.M.TR.P. XII. IMP. VIII. COS. V. P.P. Female figure holding sceptre and statuette. Wt. 112·1 grs. From the O'Hagan Collection.

Sept. Severus.—Aureus; *rev.* COS. III. LVDOS. SAECVL. FEC. Bacchus and Hercules. Wt. 111·8 grs. From the O'Hagan Collection.

Three hundred and seventy-five coins of various emperors, from Diocletian to Constantine II.

Presented by Signor G. Dattari.

Ten bronze Byzantine coins (Anastasius to Michael IV.).

Presented by R. Campbell Thompson, Esq.

3. *British and Colonial Series* :—

(a) *Coins* :—

A penny of Ceolwulf I. of Mercia of a type previously unknown; Egberht of Wessex seems to have derived one of his types from this and not, as was supposed, from a type of Coenwulf.

A very rare penny of Æthelheard, Archbishop of Canterbury, under the supremacy of Coenwulf, King of Mercia; struck between the years 796 and 805 A.D.

A penny of Eadeward II. (the Martyr) struck at Tamworth, an extremely rare mint in this reign, perhaps unique.

A penny of Æthelred II. struck at Malmesbury, having on the obverse the Agnus Dei and on the reverse the Dove. Only one other coin of this type is at present known.

A penny of Harold II. struck at Maldon, a very rare mint.

Pennies of Stephen struck at Bedford and Launceston, rare mints in this reign.

A penny of Stephen struck at Leicester of an unpublished type.

A York farthing of Edward I.

A heavy noble of Henry IV. having on the obverse an annulet on the ship's rudder.

A farthing of the heavy coinage of Henry IV. struck at London, probably unique.

A rare quarter-noble of Edward IV. with the sun mint-mark struck over a crown, and having fleurs-de-lis for stops in the reverse legend.

A British crown of Henry VIII. having a small voided cross in the middle of the obverse and reverse legends.

A rial of Elizabeth with the hand mint-mark.

An unpublished pattern sixpence of Charles I.

Seven Dorsetshire and one Kent token of the seventeenth century.

Presented by H. Symonds, Esq.

Three Hampshire tokens of the seventeenth century.

Presented by the Rev. Canon Stenning.

(b) Medals:—

A very rare bronze medal of Queen Mary II. (cf. "Medallic Illustrations," I. p. 696, 95), which was probably struck in 1689 when she was appointed regent during the absence of William.

Presented by the Rev. W. P. Macdonald.

A pewter medal commemorating the building of the Sheerness docks by John Rennie in 1823.

Presented by C. Okker, Esq.

A pewter medal struck to commemorate the Norfolk Musical Festival in 1824.

Presented by R. H. Legge, Esq.

A bronze medal struck to commemorate the jubilee of the city of Newcastle, New South Wales.

Presented by His Worship the Mayor of Newcastle, N.S.W.

A bronze medal commemorating Sir Ernest Shackleton's Antarctic expedition.

Presented by the Royal Geographical Society.

A specimen of the bronze medal presented by Earl Roberts to each member of the winning team of Cadets in his Imperial Trophy Competition.

Presented by R. J. E. Hanson, Esq., Hon. Sec. of Earl Roberts's Imperial Trophy Competition.

A bronze-gilt medal struck in honour of Robert Clay Sudlow.

Presented by Messrs. Burroughs, Wellcome & Co.

A bronze portrait medal of Dr. Woodward by F. Bowcher.

Presented by Dr. H. Woodward, F.R.S.

A silver religious guild medal by F. Bowcher, with a portrait of Christ copied from a seventeenth century medal.

Presented by F. Bowcher, Esq.

A bronze medal struck by the Hudson-Fulton Celebration Committee.

Presented by E. R. Adams, Esq.

Also an interesting series of similar medals in different metals and sizes.

Presented by the Hudson-Fulton Celebration Committee.

4. Mediaeval and Modern Series:—

(a) Coins:—

A gold Merovingian tremissis of Mainz, of the 9th century: *obv.* defaced; *rev.* Cross.

Presented by H. T. Grogan, Esq.

A gold dinar of Alfonso VIII. of Castile, with Cufic inscription, struck at Toledo A.D. 1193. From the Hazlitt Collection.

A gold double-ducat of Joan the Mad and her son Charles V. ; *obv.* the two busts confronted ; *rev.* Arms of Aragon. From the Hazlitt Collection.

Hardi d'or of Charles de France, Duke of Aquitaine (1468-74) ; *obv.* Half-figure of the Duke facing ; *rev.* Cross. From the Hazlitt Collection.

Silver testoon of François I. ; *rev.* Shield crowned between two Fs crowned. From the Hazlitt Collection.

Gold zecchino of Clement VII., Anti-Pope (1378-94). From the Hazlitt Collection.

Silver giulio of Leo X., struck at Bologna ; *obv.* Bust of the Pope ; *rev.* Lion rampant, holding lance with pennon, and the arms of Cardinal Giulio de' Medici. From the Hazlitt Collection.

Gold scudo of Sixtus V. for Bologna. From the Hazlitt Collection.

Gold zecchino of Ercole I. d'Este (1471-1505) for Modena. *Obv.* Bust of Ercole I. ; *rev.* S. Gimignano enthroned. From the Hazlitt Collection.

Gold doppia, in brilliant condition, of Odoardo Farnese for Piacenza ; *rev.* Wolf and three lilies under crown, dated 1626. From the Hazlitt Collection.

Heaume d'or of Louis de Male, Count of Flanders (1346-84). From the Mayer and Hazlitt Collections.

Gold angelot of Henri II. de Brederode (1556-68) for Vianen, imitated from the English angel. From the Hazlitt Collection.

A thaler of 1518 of Frederick the Wise of Saxony as lieutenant-general of the Empire ; *rev.* Austrian eagle and name of the Emperor Maximilian. From the Hazlitt Collection.

A German box-thaler of 1733, commemorating the reception of the Salzburg emigrants in the Netherlands, and containing paintings. *Presented by Mrs. J. Francis.*

9 specimens of the Greek Church money of the island of Thasos (countermarked Turkish copper).

Presented by J. ff. Baker-Penoyre, Esq.

9 specimens of the money of the Greek Churches in Marmara, Mytilene and Trebizond:

Presented by F. W. Hasluck, Esq.

14 copper bonken of the Dutch Indies (Java).

Presented by J. P. Moquette, Esq.

Gold pond of President Burgers of the Transvaal, 1874.

From the Hazlitt Collection.

166 modern gold, silver, nickel and bronze coins of various countries, especially Russia.

Presented by Mrs. M. E. Thornton.

78 coins, chiefly modern, of various countries, especially Germany.
Presented by Miss L. Eckenstein.

(b) Medals:—

Bronze medal of Benedetto Arbusani, Podestà of Padua in 1530. *Rev.* **SVSTINE ET ABSTINE** Bridle. Apparently from the same hand as the medals of Pierio Valeriano Bolzani and Florio Maresio of Belluno. From the T. W. Greene and Loebbecke Collections.

Bronze medal with imaginary head of Alcibiades, to which is attached a reverse in the style of Cesati. **KPATOYMAI** Prudence seizing Fortune. *Presented by H. Samuel Esq.*

Three lead medals. (1) Portrait of a lady, the wife of Alfonso Trotti, about 1530; inscribed **TERTIA IAM VIVITVR AETAS** (2) Reverse design, Diana hunting, accompanied by her nymphs and a lion; inser. **HANC PENITVS** (3) Portrait of a lady (perhaps Lucrezia de' Medici); inser. **HOC MIRVM EST IN NATVRA** All from the Loebbecke Collection.

Bronze medal of Q. Remmius Palaemon, the grammarian of the first century. A fancy portrait by Camillo Mariani of Vicenza (16th century). From the Loebbecke Collection.

Presented by Max Rosenheim, Esq., F.S.A., through the National Art Collections Fund.

Lead medal of Agostino Valiero, bishop of Verona, 1565–1606.
From the *Loebbecke Collection.*

Portrait medal of Johann Faust of Aschaffenburg, by the monogrammist HG, dated 1577.

Bronze medal of Gustavus Adolphus of Sweden, by an Italian artist; inser. **TERRENAM DOMVM STRVIMVS VT COELESTEM HABEAMVS**; *rev.* Assumption of the Virgin.

Gold medal of King Stanislaus Augustus of Poland, presented by him to Alexander Gibson for special services rendered during his exile. *Presented by Miss Grace B. Gibson Thomson.*

Silver medal of Christian Theophilus Haubold, German jurist (died 1824). *Presented by P. H. Webb, Esq.*

Bronze medal of D. A. Sturdza, four times Premier of Roumania, in commemoration of his 70th birthday.

Presented by M. Georges Morviano, Roumanian Consul.

Bronze medals of Dr. H. J. de Dompierre de Chauffepié and Mr. Peter John Blok, both by Toon Dupuis.

Presented by Dr. H. J. de Dompierre de Chauffepié.

Bronze medal of the fifteenth conference of the Inter-parliamentary Union, 1908, with portrait of the German Emperor.

Presented by the "Deutsche Gruppe für Schiedsgericht."

Bronze medal of the University of Oviedo.

Presented by the Rector of the University.

Bronze medal of Luigi Cavenaghi, 1908.

Presented by Senator Luca Beltrami.

5. *Oriental Series*:—

A copper coin of Shams-ad-din, Atabeg of Azarbajan, 1131-72 A.D. *Presented by R. Campbell Thompson, Esq.*

Seven copper coins of Alā-ad-din, Shah of Khwārizm, 1199-1220 A.D. *Presented by S. E. Pears, Esq., I.C.S.*

A silver coin of Leo V. and two copper coins of Hethum I. of Armenia. *Presented by R. Campbell Thompson, Esq.*

Three silver Sassanian coins of Sapor II., Peroz and Khusrau II. *Presented by Captain D. L. Lorimer.*

Two early Arab imitations of Sassanian silver coins and three silver coins of the Arab governors of Tabaristān.

Presented by H. L. Rabino, Esq.

A series of coins of the Shahs of Persia, comprising a silver coin of Tahmasp II., struck at Tabriz 1135 A.H.; eight silver coins of Faṭh 'Alī of various mints and dates; a silver coin of Muhammad Shah, another of Nāsir-ad-din, a gold tuman of Muzaffar-ad-din, and three bronze medals with the portraits of the Revolutionary leaders, Naṣr-as-Sultanaḥ, Satār Khān, and Bāk̄r Khān.

A fine collection of Persian coins, including a silver coin of Ismail I., two silver coins of Abbas I. and five of Sulaiman I. of the Huwaiza mint, twelve of Nādir Shāh, and twenty-two of Karīm Khān of various mints and dates, a rare silver coin of Bābā Khān struck at Kāshān 1212 A.H., silver coins of Muhammad Hasan Khān and Muhammad 'Alī, and one hundred and twenty-two autonomous copper coins, including many rare unpublished mints and types.

Presented by H. L. Rabino, Esq.

A rare gold muhur of Taimur, Amir of Afghanistan, struck at Kābul in the year 6 of his reign.

Four Afghan rupees of Ahmad, struck at Aonlah, year 14; Mahmud, Kashmir, year 2; Shujā'-al-Mulk, Kashmir, 1221 A.H.; and Abd-al-Rahman, Kābul, 1314 A.H.

Two Afghan rupees, a rupee of Kashmir, a quarter rupee of Shāh Jahān, and copper coins of the Moghul Empire, Afghanistan, and the Sikhs.

Presented by R. Sutcliffe, Esq.

A rupee of Habib Allah Khan, the reigning Amir of Afghanistan. *Presented by S. Oppenheimer, Esq.*

A rare gold tanka of Muhammad III. bin Tughlak, struck at Dehli 739 A.H. and six billon coins of the earlier Sultans of Dehli. *Presented by S. E. Pears, Esq., I.C.S.*

Two silver coins of Mahmud III. of Gujarat and twenty-seven copper coins of Mahmud of Malwa.

*Presented by the Director of Agriculture,
Central Provinces.*

Four copper coins of Mahmud III. of Gujarat.

Presented by the Bombay Branch of the Royal Asiatic Society.

A rare gold muhur of Akbar, struck at Lahore in the year 35; Ilahi and rupees of Muhammad Shah, 'Alamgīr II., Shah 'Alam I., and Shah 'Alam II. from the rarer mints.

Nine rupees of Shāh Jahān Aurangzīb and Muhammad Shāh, and nine rupees of native States with legends of the later Moghul Emperors.

Presented by the Bombay Branch of the Royal Asiatic Society.

Three silver coins of Shah 'Alam struck at Bareilly.

Presented by the Government of the United Provinces.

Seven gold muhurs of Bhartpur, Jaipur and Oudh.

Three silver and three copper coins of the new issue of Haidarabad.

Presented by the Master of the Mint, Haidarabad.

Fourteen copper coins of Ranbir Singh of Kashmir, struck at Srinagar, Ladakh and Jammu.

Presented by Oscar Eckenstein, Esq.

Three gold coins of the Kadamba dynasty and two gold coins of Pratāpa Deva of Vijayanagara.

Presented by the Bombay Branch of the Royal Asiatic Society.

A gold fanam and two silver punch-marked coins from Southern India.

Presented by F. Fawcett, Esq.

One gold, one silver and one copper coin of South India.

Presented by H. T. Grogan, Esq.

A gold coin of the Ganga dynasty of Kalinganagara.

Presented by the Director of Agriculture, Central Provinces.

A fine series of sixty silver coins of Pratāpa Nārāyaṇa and Prāṇa Nārāyaṇa of Kuch Behar, including many new varieties.

A silver "Rāma-tanka" from Northern India.

Presented by E. G. S. Churchill, Esq.

A silver coin of Candra Vijaya of Arakan.

Presented by the Director of Archaeology of Burmah.

6. Chinese Series :—

A series of early Chinese coins containing many rare specimens of the early Spade money, Weight money of Wei, Pu money of Lu Yang, Knife money of the Tsi and Ming series and two specimens of the "ghosts' heads" attributed to the Tchou dynasty.

A series of tokens issued in 1852 by the Chinese Emperor Hsien Feng, of the rarer mints and denominations.

A collection of thirteen silver and sixty-eight bronze-modern Chinese coins of the provinces of Sze-Chuan, Hu-Peh Ho-Nan, Che-Kiang, Hu-Nan, Kiang-Nan and Kiang-Su, including many rare proofs and patterns.

Presented by H. Ballou Morse, Esq.

A silver coin with bilingual inscription, struck by the late Chinese Emperor Kuang Hsü at Ulumchi in Turkestan.

Presented by S. Oppenheimer, Esq.

V.—*Students and Visitors.*

The number of visits made to the Department of Coins and Medals by students and others during the year 1909 was 4,377. .

H. A. Grueber.

X.—BRITISH MUSEUM (NATURAL HISTORY).

STATEMENT of PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and ACCOUNT of OBJECTS added to them, in the Year 1909.

GENERAL PROGRESS.

Visitors.

The number of visits made by the public to the Natural History Museum during 1909 was 535,116, as compared with 517,043 in 1908—a further increase of 18,073 in the total for the year.

The attendance on Sunday afternoons, however, again showed a falling off, the figures being 61,465, as against 65,986 in the previous year.

The average daily attendance for all open days was 1,474; for week days only, 1,523; and for Sunday afternoons, 1,182.

Swiney Lectures.

Dr. T. J. Jehu delivered his first course of twelve lectures on Geology on the Swiney Foundation during the month of November, the subject being "The History of North-West Europe during Tertiary Times." The lectures were given in the lecture theatre of the Victoria and Albert Museum (by permission of the Board of Education), and the total attendance for the course was 2,796 persons, or an average of 233 persons per lecture (as compared with 99 for the course of lectures given in 1908).

Heating and Ventilation.

The new heating apparatus has been installed in the east side of the building. The erection of the fan house and fan for the ventilation of this side of the Museum is in progress.

New Buildings, &c.

The building of the new botanical room on the second floor over the east corridor, to which reference was made in the last Return,* and of the new offices on the same floor on the west side, was commenced in the autumn. Good progress has been made with the work, and it is hoped that both the new buildings will be ready for occupation in the spring of 1910.

* Page 96.

Spirit Building.

The congested state of the building containing specimens preserved in spirit has given the Trustees serious concern. It has now become a matter of impossibility to keep these collections in order or in any scientific arrangement. The Trustees have submitted the facts to the Treasury with a view to the provision of funds for the extension of the Spirit building. Their Lordships have promised to consider the matter in connection with the Estimates 1910-11.

Entomological Research Committee.

With the concurrence and co-operation of the Trustees, the Entomological Research Committee organised under the auspices of the Colonial Office have established a Bureau at the Natural History Museum for the acquirement and dissemination of information relating to disease-carrying insects.

The Earl of Cromer has consented to act as Chairman of the Committee, and Dr. Harmer, Keeper of Zoology, and Mr. E. E. Austen, Assistant in charge of the Diptera or two-winged flies, have been deputed to represent the Museum.

Accommodation has been provided in the Museum for the Secretary of the Committee (Mr. Guy Marshall).

The Secretary of State for the Colonies has expressed his appreciation of the satisfactory arrangements which have been made by the Trustees for the instruction of Colonial Officers in Entomology.

Mr. E. E. Austen has also been placed on the Committee of the Sleeping Sickness Bureau, as representing the British Museum, and will act as Honorary Consulting Entomologist to the Bureau.

Lord Walsingham's Collection of Micro-Lepidoptera.

By deed of gift, executed in November, 1901, Lord Walsingham placed at the disposal of the Trustees, on certain conditions, his magnificent collection of specimens of Micro-Lepidoptera (the smaller moths) and the library of books relating thereto. His Lordship having intimated his desire to transfer the collection to the Museum by the beginning of the financial year 1910-11, the Lords of the Treasury have, at the request of the Trustees, readily agreed to provide the increase of staff necessary for the proper management of this large accession, and the collection will be transferred to Cromwell Road in the spring.

The collection which thus passes into the possession of the nation is by far the richest of the kind in the world. When examined by the Museum specialist in 1901 it was officially reported to the Trustees to contain over 200,000 specimens, in a condition of preservation which left nothing to be desired, and to include about nine-tenths of the recorded species,

besides a large quantity of unworked material. Since that date it has continually been added to, until now the number of specimens is about 260,000. What this means will be understood when it is said that Lord Walsingham's munificent gift, the result of 30 years' work and expenditure, will add about 45,000 species of Micro-Lepidoptera to the national collection, which at present possesses only about 4,000 species of these small insects.

It may be added that the study of these smaller and more neglected forms of the Lepidoptera is becoming constantly more interesting from its important bearing upon horticulture, agriculture, and the geographical distribution of species, as well as upon the effects of isolation and environment on their hereditary tendencies to progress, differentiation, or reversion.

Presents.

The total number of gifts received during the year by the several departments was 2,295, as compared with 2,259 in 1908. Many of these comprised large numbers of individual specimens. The details of all the more important of them will be found in the reports of the Keepers of the several Departments, but the following may be mentioned here as of special interest:—

From Sir John Murray, K.C.B.—The interesting collections, consisting chiefly of birds and marine animals, obtained by Dr. C. W. Andrews at Christmas Island, Indian Ocean. (*See* last year's Return, page 96.)

From the Army Medical College, London.—The collections of natural history specimens hitherto preserved at the College.

From Mr. Ernest Gibson.—A valuable consignment of Zoological specimens collected by Mr. Claude Grant in the Argentine Republic.

From His Grace the Duke of Bedford, K.G.—A collection of 289 mammals obtained by Mr. M. P. Anderson in China.

From Mr. W. E. Balston.—A series of 1,125 mammals from Java, collected by Mr. G. C. Shortridge.

From the late Rev. E. J. May (by bequest).—A pair of antlers of great Moose Deer, from Canada.

From Mr. L. C. Bernacchi.—A desiccated human mummy from the Peruvian Andes—the first of these specimens to come to the Museum.

From Mr. Percy I. Lathy.—A collection of 1,333 specimens of butterflies from Borneo, Sumatra, etc.

From Mrs. J. F. Walker and Mr. Gelson Walker.—The important collection of fossil Brachiopoda made by the late John Francis Walker, consisting of many thousand specimens of all geological periods, together with the original cabinets in which the collection was contained.

From Mr. E. Hopkins.—A valuable and interesting series of gem-stones presented at intervals during the past four years.

From the Colonial Secretary of Jamaica.—A series of 2,500 specimens of plants of that island.

From Miss A. F. Yule.—A cast of the Geological Society's fine bust, by Westmacott, of Sir Roderick Murchison.

From Mr. Oldfield Thomas, F.R.S.—A set of the Proceedings of the Zoological Society from 1858 up to the present time.

Purchases.

Among the more important purchases made during the year, special mention may be made of the following:—

A male, female and young Elephant-Seal, from the Crozet Islands, in the South Indian Ocean; mammals and birds from Turkestan, collected by Mr. Douglas Carruthers; the fifth and final instalment of the David Sharp collection of palæarctic Coleoptera; 2,038 specimens selected from the collection of Indian butterflies formed by the late Dr. F. Moore; selections from the collection of Phytophagous Coleoptera formed by the late Martin Jacoby; a remarkable series of remains of fossil reptiles and amphibians from the Karoo formation of South Africa, collected by the late Prof. H. G. Seeley; a selected series of fossil reptiles and fishes from the Oxford Clay of Peterborough; remains of the large horned dinosaur *Triceratops*, from the upper cretaceous rocks of Wyoming, U.S.A., being the only remains of the American horned dinosaur hitherto sent to Europe; a selection of about 3,000 invertebrate fossils from the collection of the late Arthur Champernowne, F.G.S.; 1,500 invertebrate fossils from the carboniferous and other formations of Belgium; rare fossils from the upper cretaceous of North America, oligocene of the Fayûm, Egypt, eocene of North Italy, Asia Minor, etc.; a fragment of the meteoric iron found at Gibeon, German South-West Africa; the French Lichen herbarium of the late Antoine Boistel; and plants from the Philippines, Saghalien, and Japan.

Exchanges and Gifts of Duplicates.

Exchanges of duplicate specimens have been made with various institutions and individuals.

The following have been added to the list of institutions to receive grants of duplicate specimens, namely:—Bermondsey Public Museum; the Free Museum, Whitechurch, Salop; the Technical School Museum, Shipley; and Oaklands Higher Standard School, Hanwell.

Selections of duplicate specimens have been presented as follows:—

Of zoological specimens—to the Royal College of Surgeons; the Royal Scottish Museum, Edinburgh; the National Museum,

Dublin; the University Museum, Cambridge; Bristol Museum; Londonderry Museum; Haslemere Educational Museum; Wellington College Museum; the Indian Museum, Calcutta; Dr. R. Dohrn, of Naples; Mr. H. S. Barber; Mr. G. C. Champion; Mr. Isaac B. Ericson; Dr. R. Gestro; Dr. K. M. Heller; Dr. Walther Horn; Dr. F. Ohaus; Mr. S. Schenkling; Mr. Adolf Schmidt; Mr. Hans Wagner; and Mr. J. I. S. Whitaker.

Of fossils and casts of fossils—to Oaklands Higher Standard School, Hanwell; the Museum of the Royal Institution of Cornwall, Truro; the Dominion Museum, Wellington, New Zealand; the Carnegie Museum, Pittsburgh, U.S.A.; Mr. J. R. Farmery; Dr. A. Keith (Royal College of Surgeons); Mr. T. Sheppard (Hull Museum); Mr. T. G. Taylor; Mr. H. M. Trower; and Mr. H. Woods (Sedgwick Museum, Cambridge).

Of mineral specimens—to the Gordon Boys' Home, Woking; Clifton College; Oxford University Museum; Cambridge University Museum; the Museum of the Geological Survey of India, Calcutta; and the State Mining Exposition at Chihuahua, Mexico.

N.B.—All the *individuals* named have presented specimens or otherwise assisted the Museum.

Publications.

The following works on Natural History have been published during the year:—

Handlist of the Genera and Species of Birds. Vol. V. By Dr. R. Bowdler Sharpe. Pp. xx., 678. 8vo. £1.

Catalogue of the Fresh-water Fishes of Africa in the British Museum (Natural History). Vol. I. By G. A. Boulenger, F.R.S. Pp. xi., 373; 270 text-figures. Imp. 8vo. £1 12s. 6d.

Illustrations of African Blood-sucking Flies, other than Mosquitoes and Tsetse-Flies. By E. E. Austen; with coloured figures by Grace Edwards. Pp. xv., 221; 13 coloured plates, 3 text-figures. Royal 8vo. £1 7s. 6d.

Catalogue of Lepidoptera Phalænæ (Moths) in the British Museum. Vol. VIII. Noctuidæ (Acronyctinæ, II.). By Sir George F. Hampson, Bart. Pp. xiv., 583; 162 woodcuts. 8vo. 15s.

———— Atlas of 14 coloured plates. 8vo. 12s.

Catalogue of the Cretaceous Bryozoa in the Department of Geology. Vol. II. By Professor J. W. Gregory, D.Sc., F.R.S. Pp. xlviii., 346; 75 woodcuts and 9 plates. 8vo. 13s.

Guide to the Whales, Porpoises, and Dolphins (order Cetacea) exhibited in the Department of Zoology. By R. Lydekker, F.R.S. Pp. 47; 33 illustrations. 8vo. 4d.

Special Guide, No. 4.—Memorials of Charles Darwin: a Collection of Manuscripts, Portraits, Medals, Books, and Natural History Specimens to commemorate the Centenary of his Birth and the Fiftieth Anniversary of the publication of "The Origin of Species." By W. G. Ridewood, D.Sc. Pp. v., 50; 2 plates. 8vo. 6d.

New editions have been issued of the following Guide Books, &c. :—

General Guide to the British Museum (Natural History). Twelfth edition. Pp. x., 117; 59 text-figures, 2 plans, and 2 views of the building. 8vo. 3*d*.

Guide to the Gallery of Birds in the Department of Zoology. By W. R. Ogilvie Grant. Part II. Nesting Series of British Birds. Second edition. Pp. 62; 4 plates. 4to. 4*d*.

Guide to the exhibited series of Insects in the Department of Zoology. By C. O. Waterhouse. Second edition. Pp. 65; 62 illustrations. 8vo. 6*d*.

Guide to the Fossil Mammals and Birds in the Department of Geology and Palæontology. By Dr. A. S. Woodward, F.R.S. Ninth edition. Pp. xvi., 100; 6 plates, 88 text-figures. 8vo. 6*d*.

Introduction to the Study of Rocks and Guide to the Museum Collection. By L. Fletcher, M.A., F.R.S., &c. Fourth edition. Pp. 155. 8vo. 1*s*.

Instructions for Collectors :—No. 9. Soft-bodied and other Invertebrate Animals; Shells of Molluscs. Third edition. Pp. 18. 8vo. 3*d*.

Instructions for Collectors :—No. 10. Plants. Fourth edition. Pp. 8. 8vo. 3*d*.

Selections of the natural history publications of the Museum have been sent to Free Libraries and other institutions in Great Britain and Ireland, to Colonial, Indian, and foreign Museums, Libraries, and Scientific Societies, and to a number of persons who have benefited the Museum by helping in the preparation of the volumes, or otherwise; and additions have been made to the publications-exchange list.

The undermentioned works are in preparation :—

Catalogue of the Library, Vol. III.

National Antarctic (Discovery) Expedition, 1901-4. Natural History, Vol. V. and VI.

Catalogue of Bats, by Dr. Knud Andersen.

Monograph of the Okapi, by Sir E. Ray Lankester, K.C.B., F.R.S.

Catalogue of Birds' Eggs, Vol. V., by W. R. Ogilvie-Grant.

Catalogue of Mammals of Western Europe, by Gerrit S. Miller.

Catalogue of the Fresh-water Fishes of Africa, Vol. II., by G. A. Boulenger, F.R.S.

Monograph of Mosquitoes, Vol. V., by F. V. Theobald.

Illustrations of Asiatic Blood-sucking Flies, with text by E. E. Austen.

Catalogue of Moths, Vol. IX. and X., by Sir G. F. Hampson, Bart.

Synonymic Catalogue of Orthoptera, Vol. III., by W. F. Kirby.

Catalogue of Polychæte Worms, by Dr. J. H. Ashworth.

Catalogue of Marine Reptiles of the Oxford Clay, by Dr. C. W. Andrews, F.R.S.

Catalogue of Fossil Fishes, Vol. V., by Dr. A. S. Woodward, F.R.S.

Monograph of British Lichens, Vol. II., by Miss A. L. Smith.

Monograph of Mycetozoa, by A. Lister, F.R.S. New edition, revised and enlarged.

Monograph of Orchids of Jamaica, by W. Fawcett and Dr. A. B. Rendle, F.R.S.

Monograph on the Flora of Jamaica, by W. Fawcett.

Catalogue of the Sloane Herbarium, by J. Britten.

Guide to the British Vertebrates.

Guide to the Crustacea, Arachnida, &c.

Guide to Drawings of Edible Mushrooms.

GENERAL LIBRARY.

The additions to the General Library during the past year have been:—

By purchase	-	-	-	376 volumes.
By donation	-	-	-	561 volumes, 6 maps, and 33 photographs.

TOTAL - - - 937 volumes, 6 maps, and
33 photographs.

All the volumes and maps have been catalogued, press-marked, and put in their places, while 1,004 volumes have been bound in 561, and 20 have been repaired.

The extent of the collection on the 31st of December was 38,996 volumes, 5,677 maps, and 492 photographs (not including those in the Owen Collection of Drawings, &c.).

The accessions to the Departmental Libraries have also been catalogued as they came in, and duplicate transcripts of the titles have been returned with the books.

Altogether 2,676 title-slips have been written, 316 re-written, and 3,626 revised.

There are now, on a rough estimate, 86,406 volumes (exclusive of continuations and minor *separata*) and 6,011 maps in the whole building.

The printing of the Catalogue was proceeded with and the work at the end of the year stood as follows:—

No. of sheets passed for press (A—Montp.)	-	-	168
No. of title slips set up in type (A—Murray)	-	-	39,820

The number of visits paid to the Library during the year by students and others (irrespective of the staff and persons to whom the use of a key is granted) was 2,101.

INDEX MUSEUM AND MORPHOLOGICAL COLLECTIONS.

All the dissections exhibited in the Entrance Hall have been examined during the course of the year; thirty-two glass vessels have been refilled with alcohol, and nine dissections and eleven preparations have been remounted.

The series of Eolithic flint implements presented by Dr. H. P. Blackmore, exhibited in Bay VI., has been transferred from the Hall to the Geological Department. The large series of Molluscan shells and dissections, 403 in number, exhibited in the wall-cases of Bay VII., has been transferred to wall-cases at the South end of the Shell Gallery. The two cases of specimens illustrating the characters of the eggs of birds have been brought back into the Hall, and are now set up against the sides of the arch at the entrance of Bay III.

Progress has been made with the specimens illustrating the adaptation of animals for movement through the air (flying and scudding), and the series will probably be ready for exhibition during the coming year.

A collection of 156 Currant Moths, presented by Mr. L. Doncaster, M.A., in illustration of his experiments in cross-breeding to show the limitation of certain characters to one sex, has been added to the Mendelian exhibit in Bay VI.

In commemoration of the centenary of the birth of Charles Darwin, and of the fiftieth anniversary of the publication of "The Origin of Species," an exhibition was arranged during the summer to illustrate the life and work of that naturalist. The collection is contained in 25 cases situated in the Entrance Hall, and consists of photographs, letters, note-books, microscopes, and other relics lent by members of the Darwin family; a number of bones of extinct mammals collected by Darwin in South America, lent by the Council of the Royal College of Surgeons; and many specimens belonging to the Museum, some of them previously on exhibition, now brought together because of their interest in relation with Darwin's life and work. The series comprises 251 items, which are explained in a special Guide-book entitled "Memorials of Charles Darwin," a pamphlet of 50 pages, published on August 16th, 1909, the date on which the exhibition was opened to the public.

L. Fletcher,
Director.

British Museum (Natural History),
26 February, 1910.

DEPARTMENT OF ZOOLOGY.

I.—*Arrangement and Conservation.*

MAMMALIA.

The number of new specimens added to the exhibition series during the year is rather above the average; the most important of these are noted below.

Several cases in the Lower Mammal Gallery have been opened out by the removal of the central partitions, and their contents rearranged in a more effective manner. The Sea-Elephant case has been rearranged and floored with shingle.

A number of new descriptive labels have been printed for the Mammal Galleries and North Hall, while such of the old ones as required modification have been altered and reprinted.

The additions by presentation to the exhibition series during the year include the following specimens:—A Maroon Langur Monkey, and a Javan Crab-eating Macaque, presented by W. E. Balston, Esq. An African Green Monkey, from the Zoological Society's Menagerie. A male Crab-eating Macaque from Mauritius, presented by the Commissioners of the Franco-British Exhibition. Head of Lake Chad Buffalo, from French Congo and one of female of the Bahr-el-Ghazal Eland, presented by the Executors of the late Prince Paul Demidoff. Skull of European Bison, the gift of the Duke of Bedford, K.G. Antlers of a Canadian Moose, bequeathed by the late Rev. E. J. May. A Pampas Deer from Argentina, presented by Ernest Gibson, Esq. Head of Red-fronted Gazelle from the Upper Nile, given by Norman Smith, Esq. A Sclater's Muntjac from China, presented by C. H. Teesdale, Esq.; and a Reeves's Muntjac, presented by the Duke of Bedford. Head of Lichtenstein's Hartebeest, the gift of H. Pankhurst, Esq. Head of Defassa Waterbuck, presented by K. C. B. Struvé, Esq. Horns of male, female, and young of the Black Rhinoceros from East Africa, presented by Dr. W. J. Ansorge. A North African Striped Hyæna, presented by E. Richardson Cox, Esq. A Javan Palm Civet and a Rasse, presented by W. E. Balston, Esq. An Indian Black-naped Hare, from Mauritius, presented by the Commissioners of the Franco-British Exhibition.

Among purchases, special attention may be directed to a male, female, and young of the Southern Elephant-seal, or Sea-Elephant, from the Crozet Islands. Also to a female specimen of a new race of Hangul Deer from Sze-chuen, and to a skull of the Bahr-el-Ghazal Eland. Three coloured busts of Natives of Siberia and Saghalin Island have also been added by purchase to the anthropological series

Large maps have been placed in the cases to illustrate the Geographical Distribution of Elephant-seals and of Argali

Sheep. The valuable specimen of the extinct Antarctic Wolf of the Falkland Islands has been renovated.

Domesticated Animals.—The additions to this series include the following:—A Dalmatian Dog, presented by Mrs. Wilson-Bedwell. A Labrador Retriever, presented by the Hon. A. H. Holland-Hibbert. A Bulldog, presented by Mrs. Edgar Waterlow. A Black Pekinese Spaniel, presented by the Hon. Mrs. Carnegie. Statuette of a galloping Racehorse, presented by the American Museum of Natural History, New York. Skull and horns of Ancient Egyptian Ox, presented by the Committee of the Egyptian Exploration Fund. Head of a Hausa Ram, presented by the Council of the Zoological Society. Head of Four-horned African Piebald Ram, presented by Col. H. Platt, c.B. A Black Baluba Ram, from Luebo, west of Tanganyika, presented by E. Torday, Esq. A White Malay Cock, presented by Mr. W. Pickering.

A new case for Dogs has been placed in one of the bays at the east end of the North Hall.

Whale Room.—The only addition to the series of Cetacea during the year is a model of the White-lipped Dolphin, made from a specimen presented by the Fishmongers' Company. The type specimen of the Bornean Dolphin was found to be so oily, that it could not be coloured to nature, and it has accordingly been replaced in the exhibition-series by a coloured model. The same has been done in the case of Heaviside's Dolphin.

An additional specimen has been added to illustrate the food of Rorquals; the old specimens have been remounted, and a new descriptive label has been printed.

Study Series:—

The usual work of labelling, registering, and incorporating the mammals added to the collection has been continued.

Two cabinets for storing small mammals' skins and two cabinets for the skulls of small mammals have been added.

Some valuable presents have been received, and among these must be specially mentioned the following:—

From W. E. Balston, Esq.—1,125 Mammals from Java, collected by Mr. G. C. Shortridge.

From His Grace the Duke of Bedford, K.G., F.R.S.—289 Mammals, obtained by Mr. M. P. Anderson in China.

From the Government of the Federated Malay States.—685 Mammals from the Rhio Archipelago and Malay Peninsula, for the most part collected by Mr. H. C. Robinson.

From L. C. Bernacchi, Esq.—A human mummy from Peru.

Among the more important purchases made during the year, special mention may be made of three mounted specimens (male, female and young) of the Southern Sea-Elephant, from the Crozet Islands, Indian Ocean.

A re arrangement of the skeleton collection has been commenced, and the old whale room has been partially cleared for its reception. The whales' skeletons have been thoroughly overhauled and re-arranged.

Some new and valuable additions have been made to the osteological series; and of these special mention may be made of a young Walrus, lately living in the Gardens of the Zoological Society.

The Department is again much indebted to volunteer helpers for valuable assistance in working out new forms of mammals. The following gentlemen should be specially mentioned in this connection:—Mr. R. C. Wroughton, Dr. Knud Andersen, Dr. D. G. Elliot, Dr. Lyster Jameson, and Dr. Drake Brockman.

The services of Dr. Knud Andersen have been continued for the preparation of the new catalogue of Chiroptera.

AVES.

Preparations illustrating the classification of Birds have been added to the exhibited series.

The mounted series of Birds in the British Saloon has now been completed. This is largely due to the generosity of Mr. Rowland Ward, who has presented beautifully mounted examples of a large number of species.

The remounting of the series in the General Gallery has also been continued and the old and faded specimens of the following families have been replaced by finely mounted examples, the work of Mr. Rowland Ward:—*Galbulidæ*, *Bucconidæ* and a considerable number of Dendrocolaptine Birds.

The Gould collection of Humming-Birds, with the exception of the cases on the main staircase, has been removed from the East corridor to the Vestibule leading from the Central Hall to the Fish Gallery. The Vestibule has been fitted with shelves for the reception of the smaller cases; and the whole series is in course of being re-labelled on a new and improved plan.

New and revised editions of the Guide to the Gallery of Birds and of the Guide to the Nesting Series of British Birds have been published.

Much assistance has been received from Mr. David A. Bannerman, who has spent many weeks naming, registering, labelling and incorporating specimens. He has also written a paper on a large collection of birds formed by Mr. G. W. Bury in N.-E. Somaliland.

Additions have been made to the osteological collection: among them preparations of the skulls of nestling birds taken from the Spirit Collection. Much curatorial work has also been necessary in this part of the collection.

The arrangement of the specimens in spirit is unsatisfactory owing to the lack of adequate storage room.

REPTILIA AND BATRACHIA.

The painted shelves in two of the wall-cases devoted to Lizards have been covered with artificial ground-work. A skeleton of the Leathery Turtle, prepared from a specimen stranded on the Welsh coast, has been added to the exhibition-series, and a new case constructed to contain this specimen and the model of the same species. Several models of reptiles and batrachians, acquired by purchase, have been added to the exhibition-series. A group of green Lizards from Jersey, the gift of Major H. G. J. De Lotbinière, has also been installed in one of the wall-cases.

The congested state of the Spirit Building has continued to interfere seriously with the good order of the collections and has rendered access to them more and more difficult.

PISCES.

Twenty-one additions have been made during the year to the exhibited series in the Fish Gallery, and include specimens showing the differences between the Sole and the Lemon Sole, a series illustrating convergence among long-bodied fishes, and a series of fishes provided with suckers.

The large cast of the skeleton of the Basking Shark has been repainted, and numerous repairs have been effected upon this and on other specimens in the Gallery.

Four hundred and seventy printed labels have been placed with the fishes exhibited in the North half of the Gallery (wall-cases 7-14), in substitution for manuscript labels; and a hundred and six labels for the orders, sub-orders and families of these fishes have been printed and mounted.

Progress has been made with the revision and arrangement of the collection of Freshwater Fishes of Africa, a first volume of a systematic catalogue of which was published during the year.

MOLLUSCA.

Besides the ordinary work of registration, mounting and incorporation of the numerous acquisitions, the following is the principal work done in connection with the collection of Mollusca.

The collection obtained by Dr. Andrews at Christmas Island has been worked out and reported upon. Some groups of the study collection have been rearranged, and the very large shells have been removed from two of the old upright cases and displayed in a new wall-case.

The species of the genera *Libitina* and *Phenacalepas*, and some Volutidæ and Olividæ have been determined, and the species of the genus *Erato* have been worked out and reported upon. The type specimens of Trochidæ from the Hanley Collection have been identified, mounted and incorporated. The early stages of the genus *Humphreyia* and the egg-capsules of *Melo* have been studied, and accounts of them prepared. A large collection of Marine shells from Bombay, and series from Central Australia and the Falkland Islands, have been named.

A selection of the more striking specimens acquired during the year have been placed on exhibition in the table-cases.

INSECTA.

A new edition of the Guide to the Insect Gallery being required, it has been thoroughly revised, and sections dealing with the Coleoptera and Rhynchota, the exhibited series of which were not sufficiently advanced to be described in the previous edition, have been added. At the same time mounted series illustrating these and other Orders have been prepared and exhibited in the Table-Cases.

The growth of the Collection having made additional accommodation absolutely necessary, the Zoological Library has been transferred to the ground floor, and the room formerly occupied by it has been added to the Insect Section, a change involving a complete re-arrangement of the Insect Collections. This has of necessity interrupted to some extent the ordinary work of the staff, but its virtual completion has now enabled that work to proceed with much greater convenience. In connection with these changes the Entomological Library has been removed to a more central position in the corridor.

In the Coleoptera the *Byrrhidae* and *Cleridae* have been re-arranged and all accessions incorporated, and a commencement has been made with the incorporation of the very large collection of water-beetles (*Dytiscidae*), acquired from Dr. David Sharp, and with a re-arrangement of the entire Museum Collection. Large series of various groups have been sent to foreign specialists for determination during this year, and those returned have been properly labelled and re-incorporated. The largest series so dealt with are *Aphodiinae* (Herr A. Schmidt), *Trichopterygidae* (Mr. I. B. Ericson), *Apioninae* (Herr H. Wagner), *Staphylinidae* (Dr. Bernhauer). The *Cossoninae* contained in the Pascoe and Fry Collections have been incorporated and the entire collection expanded, and many genera in the different groups have been revised, the accessions incorporated, and new species described. A selection of types and other specimens has also been made from the Jacoby Collection.

The third volume of the Catalogue of Orthoptera has been passed through the press, and will be issued before the end of the financial year 1909-1910.

In the Hymenoptera considerable progress has been made with the re-arrangement of the Wasps (*Diploptera*); the families *Masaridae* and *Eumenidae* have been completed, all accessions incorporated and some new species described. Some progress has also been made with the family *Vespidae*.

Mr. Rowland E. Turner has continued to devote his time to the service of the Museum, and has made great progress in the re-arrangement of the Sand-wasps (*Fossores*), and in addition has worked out two important collections of Hymenoptera from Australia and Ceylon. In the parasitic Hymenoptera

INSECTA—*continued.*

progress has been made with the arrangement and expansion of the British *Ichneumonidæ*, while the *Braconidæ* and *Chalcididæ* have been entirely re-arranged.

The entire collection of Butterflies has been removed from its previous position in Rooms A., B., C. to new places in Rooms C., D., E. The removal has enabled the cabinets to be placed in consecutive order.

Progress has been made with the transference of the Collection to the glass-bottomed drawer cabinets, the following being the chief groups arranged therein.

In the *Papilionidæ*: *Troides* (*Ornithoptera*).

Pieridæ: *Delias*, *Mylothris*, *Catantix*, *Ixias*,
Callidryas, *Tatochila*.

Lycanidæ: *Thysonotis*, *Hypolycæna*, *Iolaus*, *Catochrysops*, *Tajuria*.

During the year, Vol. VIII. of the Catalogue of Moths has been published and Vol. IX. passed through the press, completing the Noctuid sub-family *Acronyctinæ*, which has been re-arranged. The MS. of Vol. X. of the Catalogue, dealing with the sub-family *Erastrianæ*, has been completed. The re-arrangement of the *Sphingidæ* has been completed, and the Neave Collection from the Congo and N. Rhodesia worked out and incorporated.

In the Rhynchota the *Ricaniidæ* and *Issinæ* have been re-arranged and revised, and new species described in a series of papers. The collection of Rhynchota purchased from the Van der Poll Collection has been worked out, and descriptions of new species have been published, also a number of other species in the collection have been described as new in the "Records of the Indian Museum."

The Dipterous genus *Tabanus* has been re-arranged and expanded, and the genus *Musca* partly re-arranged.

Undetermined genera and species of African and Indian Blood-sucking Muscidæ have been worked out and described, and the sub-family *Stomoxysidæ* (Fam. *Muscidæ*) was determined and arranged. Many small collections of Blood-sucking and other Diptera have been received from various parts of the world, especially Tropical Africa, and information thereon furnished to the senders.

Numerous other accessions, both Exotic and British, belonging to various families, have been determined and incorporated.

A commencement has been made in the determination of The Neave Collection of *Tabanidæ* from the Congo Free State and N.-E. Rhodesia. The text for "Illustrations of African Blood-sucking Flies" has been completed, and the work itself published. A considerable number of enquiries concerning species of medical or economic importance have been dealt with.

A considerable number of specimens of the Neuropterous family *Nemopteridæ* have been sent from the collection to a foreign specialist (Señor Longinos Navás), who will determine the unnamed species. Similar steps have been taken with a number of *Termitidæ*, in this case sent to Stockholm (Dr. Nils Holmgren), who has undertaken to name the specimens hitherto undetermined.

MYRIOPODA AND ARACHNIDA.

The collection of Mygalomorph Spiders has been partly rearranged, and the nomenclature brought up to date. Part of the families *Selenocosmiidæ* and *Ischnocolidæ* have been worked out, and a number of new forms described. Work has also been done on South African Arachnida. Several collections of Ticks which have been received during the year have been worked out, and reports forwarded to the donors.

The preparation of the MS. of the Guide to the exhibited series of Myriopoda and Arachnida has been completed.

CRUSTACEA AND PYCNOGONIDA.

Some additions have been made to the exhibited series, the most important being a set of nine cast shells from a single specimen of the Common Lobster, presented by Mr. H. J. Waddington. A Guide to the Crustacea exhibited in the Gallery is in course of preparation. A series of Cirripedes illustrating Darwin's work on the group have been selected and arranged to form part of the Darwin Exhibition. The alterations in the heating apparatus in the Crustacea Room having reduced the space available for the storage of the collection, it has only been possible to find room for the very large number of additions made during the year by putting up a temporary cupboard, to which the Pycnogonida have been transferred. The whole of the bottles in the Spirit collection (some 12,000 in number) have been cleaned and refilled. Work on the Cumacea has been continued, a large number of accessions have been determined, and descriptions of the new species have been prepared for publication.

PROTOTRACHEATA, ECHINODERMA, VERMES AND ANTHOZOA.*

The manuscript catalogue to the collection of dry corals has been indexed, and is now generally available. Nothing has been done during the year to diminish the congestion of the collections of Invertebrata in spirit, which will soon result in greatly increased difficulty in finding specimens. The collection of Holothurians has been re-spirited.

Most of the specimens obtained during the year have been determined.

Dr. Ashworth has continued his catalogue of Arenicolidæ.

The Guide to the exhibited specimens of *Pentastomum* and *Peripatus* has been prepared, and the exhibition series has been re-mounted and re-arranged.

* The Assistant in charge of these groups has been recently occupied by the editing of the "Discovery" Report and the General Catalogue of books.

PROTOTRACHEATA, ECHINODERMA, ETC.—*continued.*

The manuscript Catalogues of Crinoidea and Holothurioidea have been posted up for the last ten years. The new species described in these years, and the accessions to the collections have been all duly entered.

A manuscript list of the species of *Peripatus* and its allies has been prepared, but the species have not yet been catalogued.

In the Starfish Gallery a beautifully prepared specimen of *Echinus*, presented by Mr. E. T. Browne, has been mounted. To the Coral Gallery there has been added a preparation of the organ pipe coral, and of the beautiful Pennatulid *Cavernularia malabarica*. The magnificent example of *Gerardia* which had been temporarily removed from the Coral Gallery has been restored to its place. A fine specimen of *Madrepora clathrata* has been mounted and added to the series already exhibited. Numerous spirit specimens in the public galleries have been re-mounted and re-spirited.

The whole of the collection of microscopic slides has been placed in a new cabinet, and will be systematically arranged as soon as possible.

TUNICATA, POLYZOA, HYDROZOA AND PORIFERA.

Collections of Polyzoa, Hydrozoa, and Sponges, from Madagascar, Porto Santo Island, Persian Gulf, Red Sea, Indian Ocean, Christmas Island, &c. have been sorted, examined, and partly named.

On two occasions the Trustees granted seven days leave to Mr. Kirkpatrick for the purpose of dredging off Madeira and Porto Santo Island, and on each occasion many specimens of *Merlia normani* were obtained, and preserved in accordance with the best methods. Numerous preparations have been made from the material which is still being investigated.

A report, illustrated by ten quarto plates has been written, in collaboration with Prof. F. E. Schulze, of Berlin, on the Hexactinellida obtained by the German Antarctic Expedition "Gauss." A complete set of specimens and slides has been selected for the Museum. These specimens have been returned to Berlin pending the publication of the final report.

The arranging and conservation of the Norman Collection has been begun, and is in progress.

II.—*Duplicates and Exchanges.*

(a) *Duplicates.*

Duplicates have been distributed amongst museums' scientific institutions, &c., as follows:—

Mammalia.—To the Londonderry Museum; with representatives of other orders of animals, to the Museum of Wellington College; and to Mr. J. I. S. Whitaker.

Reptilia.—To the University Museum of Zoology, Cambridge; and to the National Museum, Dublin.

Fishes.—To the National Museum, Dublin.

Mollusca.—To the Londonderry Museum.

Insecta.—To the Bristol Museum; the Haslemere Museum; and the Museum of the Royal College of Surgeons; and to the following gentlemen who have assisted in naming specimens:—Mr. H. S. Barber, Mr. G. C. Champion, Mr. Isaac B. Ericson, Dr. R. Gestro, Dr. K. M. Heller, Dr. Walther Horn, Dr. F. Ohaus, Mr. S. Schenkling, Herr Adolf Schmidt, and Herr Hans Wagner.

Crustacea.—To the Bristol Museum; the Indian Museum, Calcutta; the Royal Scottish Museum, Edinburgh; and Dr. R. Dohrn.

Corals and Sponges.—To the Bristol Museum and the Londonderry Museum.

(b) *Exchanges*.

Exchanges have been made with the following Institutions and individuals:—

Mammalia.—With the Tomsk Museum; the Turin Museum; Prof. Blasius; and Dr. Lyster Jameson.

Aves.—With Miss A. Chirnside; Mr. H. K. Coale; and Mr. J. H. Fleming.

Reptilia and Batrachia.—With the Berlin Museum; the Vienna Museum; and Dr. F. Werner.

Pisces.—With the Indian Museum, Calcutta.

Insecta.—With the Royal Museum, Berlin; The Leicester Museum; the Zoological Museum of the Imperial Academy of Sciences, St. Petersburg; The U.S. National Museum, Washington; Prof. T. D. A. Cockerell, Dr. Walther Horn, Mr. O. E. Janson, Mr. René Oberthür, Mr. C. J. C. Pool, the Hon. Walter Rothschild, and Herr C. Sternberg.

Crustacea.—With the Bergen Museum, and the U.S. National Museum, Washington.

Porifera.—An exchange of Antarctic specimens has been made with Prof. E. van Beneden.

III.—*Departmental Library*.

The removal of the Library from the South-West Basement Corridor to the Fish Reserve Gallery on the ground floor was commenced in February and completed in June. The required re-arrangement and the re-pressmarking of all the books has also been carried out. Ninety-four separate works in 118 volumes new to the Library, and 1,784 parts of periodicals and works in progress have been acquired during the year by purchase, presentation, and exchange.

Two hundred and nineteen volumes have been bound.

The Library now contains 11,333 separate works in 18,453 volumes.

As in previous years, the Attendant in the Library, under the supervision of an Assistant, has checked the zoological works catalogued in the proofs of the General Catalogue of books.

IV.—*Independent Publications.*

In addition to the official Catalogues and other volumes published by the Trustees, already mentioned, various reports and descriptive papers have been prepared in connection with the different branches of the collection, and have been published in scientific journals.

For convenience of reference the following list is appended:—

Mammalia. — “Some Mammals from N.E. Kimberley, Northern Australia”; “On Mammals collected in Turkestan by Mr. Douglas Carruthers”; “On North Australian Rats referred to the Genus *Mesembriomys*”; “New Species of *Paradoxurus* of the *P. philippinensis* group, and a new *Paguma*”; “New Species of *Æcomys* and *Marmosa* from Amazonia”; “The Duke of Bedford’s Zoological Exploration in Eastern Asia.—XI. On Mammals from the Provinces of Shan-si and Shen-si, Northern China”; “The Generic arrangement of the African Squirrels”; “New African small Mammals in the British Museum Collection”; “A new Gibbon from Annam”; “Two new Mammals from North Australia”; “Notes on some South American Mammals, with Descriptions of New Species”; “A new Rat from Guatemala”; “Four New African Squirrels”; “A collection of Mammals from Northern and Central Manchuria”; “New African Mammals”; by Oldfield Thomas.

“Mammals from Inkerman, North Queensland, presented to the National Museum by Sir William Ingram, Bt., and the Hon. John Forrest”; by Oldfield Thomas and Guy Dollman.

“Two new Macaques from West Java”; “Diagnoses of new Mammals collected by Mr. H. C. Robinson in the Malay Peninsula and Rhio Archipelago”; “On a collection of Mammals from Western Java, presented to the National Museum by Mr. W. E. Balston”; “Diagnoses of new Mammals collected by Mr. H. C. Robinson in the Islands of the Straits of Malacca”; by Oldfield Thomas and R. C. Wroughton.

“On Mammals collected by Mr. S. A. Neave, M.A., B.Sc. (Oxon.) in Katanga, Congo Free State”; “Six new Species of *Aotus*”; “A new Species of *Presbytis*, allied to *P. rubicundus*”; “A new Species of *Fossa* from Central Madagascar”; “Two new Species of *Colobus* from Central Africa, collected by Mr. R. Grauer”; “New Mammals from British East Africa”; by Guy Dollman.

“New Muridæ from British East Africa”; “East African forms of *Arvicanthis abyssinicus*”; “New Species of *Dendromus* and *Tatera*”; “Four New African Mammals”; by R. C. Wroughton.

“The Sze-chuen and Bhutan Takins”; “An Indian Dolphin and Porpoise”; “Two Chinese Serows”; “The Skull of a Black Bear from Eastern Tibet, with a note on the Formosan Bear”; “A new Race of Deer from Sze-chuen”; by R. Lydekker.

MAMMALIA--continued.

"Notes on the Genus *Acerodon*, with a Synopsis of its species and sub-species, and Descriptions of Four new Forms"; "A new Species of *Pteropus* from Loyalty Islands"; "On the Characters and Affinities of *Desmalopex* and *Pteralopex*"; "Two new Bats from the Solomon Islands"; "On the Fruit-Bats of the Genus *Dobsonia*"; by Dr. Knud Andersen.

"On *Simia sphinx*, Linnæus"; "Descriptions of apparently new species and sub-species of Monkeys of the genera *Callicebus*, *Lagothrix*, *Papio*, *Pithecus*, *Cercopithecus*, *Erythrocebus*, and *Presbytis*"; "Description of a new species of Monkey of the genus *Cercopithecus*"; "Description of new species of Monkeys of the genera *Cercopithecus* and *Papio*"; by Dr. D. G. Elliot.

"On a Collection of Mammals from South Africa"; by Dr. H. Lyster Jameson.

"Description of a new Japanese Vole"; by M. P. Anderson.

"On a new Species and a new Sub-species of the genus *Madoqua* and a new Sub-species of the genus *Rhynchotragus*"; by R. E. Drake Brockman.

Aves.—"On the occurrence of Henderson's Gyr-Falcon in N.W. China"; "Remark on the Genus *Lobotus*"; "Description of a new Rail from the Upper Congo"; "A note on *Molpastes magrathi*"; "Notes on a Collection of Birds from Sandakan"; "Hand-list of the Genera and Species of Birds, Vol. V."; by the late Dr. R. Bowdler Sharpe.

"Ruwenzori Expedition Reports"; Preface and *Aves*; "On a Collection of Birds from West Australia, with field-notes by Mr. G. C. Shortridge"; "Remarks on hybrids between the Red Grouse (*Lagopus scoticus*), and the Black Grouse (*Lyrurus tetrix*)"; "Red Grouse and Black Grouse Hybrids"; "Description of a new species of Nuthatch (*Sitta bedfordi*) from the Island of Quelpart"; "Remarks on an immature male example of *Clangula islandica*"; "Description of a new species of Fruit-Pigeon (*Crocopus annamensis*) from Nhatrang"; "Descriptions of new species of Australian birds, *Malurus bernieri*, *Sericornis balstoni*, *Geopelia shortridgei* and *Acanthiza leighi*"; "Description of two new species of birds collected by the Ruwenzori Expedition (*Cisticola carruthersi* and *Caprimulgus ruwenzori*)"; "Notes on the Northern Marsh Titmouse in England"; "Remarks on the Woodcock." Bulletin of the British Ornithologists' Club (edited), Vols. XXIII. and XXV.; also Vol. XXIV., "Report of the Immigrations of our Summer Residents"; by W. R. Ogilvie-Grant.

"The Pterylosis of the Black-throated Diver"; "On a Fossil Bird from the Lower Pliocene"; "On the Tail-feathers of the Dabchick"; "Factors of Organic Evolution; Evolution by Atrophy"; by W. P. Pyraft.

Reptilia, Batrachia and *Pisces*.—"Fishes and Reptiles of the Ruwenzori Expedition"; "List of the Fresh-water Fishes,

REPTILIA, BATRACHIA AND PISCES—*continued*.

Batrachians, and Reptiles obtained by Mr. J. Stanley Gardiner's Expedition to the Indian Ocean"; "Description of a new Species of *Lacerta* from Persia"; "On a collection of Reptiles, Batrachians, and Fishes made by Dr. E. Bayon in Uganda"; "On the Reptiles and Batrachians collected by the Tancredi Expedition to Lake Tsana, Abyssinia"; "List of Reptiles and Batrachians collected by Capt. Ferrandi at Bardera"; "List of Reptiles collected by Capt. Ferrari at Jumbo, Lower Juba"; "Descriptions of new Batrachians and Reptiles discovered by Mr. M. G. Palmer in S.W. Columbia"; "Description of a new Lizard of the genus *Acanthodactylus* from Syria"; "Descriptions of three new Frogs discovered by Dr. P. Kreff in Usambara, German East Africa"; "Descriptions of four new Frogs and a new Snake discovered by Mr. H. Sauter in Formosa"; "Descriptions of new Freshwater Fishes discovered by Mr. G. L. Bates in South Cameroon"; "Description of a new Freshwater Gobiid Fish from the Niger"; "Descriptions of three new Fishes from Portuguese Guinea"; "Description of a new Characinid Fish from Mexico"; by G. A. Boulenger.

"A collection of Fishes made by Dr. C. W. Andrews, F.R.S. at Christmas Island"; "Remarks on Sketches illustrating Colour Changes in Fishes"; "The Classification of Teleostean Fishes"; The Anatomy and Classification of the Scombroid Fishes"; Descriptions of new Marine Fishes from Australia and the Pacific"; A new Specific Name for an Orectolobid Shark"; "A Revision of the Fishes of the Genus *Elops*"; "The Char (*Salvelinus*) of Great Britain"; Description of three new Freshwater Fishes from South America"; Description of a new Cichlid Fish of the genus *Heterogramma* from the La Plata"; "The Species of three-spined Sticklebacks (*Gastrosteus*)"; by C. Tate Regan.

Mollusca.—"Note on *Diplommatina strubelli*"; "Note on "Photographic Conchology" of Sylvanus Hanley"; "List of Mollusca from Christmas Island, Indian Ocean"; "Note on the genus *Smithia*, Maltzan"; "Notes on *Voluta norrissii*, *V. piperita*, *V. sophia*, and description of a new species"; "Ruwenzori Expedition Reports, Mollusca"; by E. A. Smith.

Insecta.—"Zoological results of the Ruwenzori Expedition 1905-1906"; Neuroptera and Orthoptera, by W. F. Kirby; Rhynchota, by W. L. Distant; Diptera, by E. E. Austen; Lepidoptera Papilionina, by F. A. Heron; Lepidoptera Phalaenæ, by Sir G. F. Hampson; Coleoptera, Buprestidæ, by C. O. Waterhouse; Malacodermata, Elateridæ, Longicornia, Phytophaga, Heteromera, by C. J. Gahan; Curculionidæ, by G. A. K. Marshall; Lamellicornia, Adephaga, Staphylinoidæ, Clavicornia, by G. J. Arrow; Hymenoptera, by the late Col. C. T. Bingham.

"Systematic notes on Coleoptera of the Clavicorn Families"; "On the Classification and Relationships of the less-known

INSECTA—continued.

Sub-families of Lamellicorn Coleoptera, with descriptions of new species of *Hybosorinae*, *Troginae*, etc.”; “On some new species of Coleoptera from Rhodesia and adjacent Territories”; “Four new Lamellicorn Coleoptera from the Oriental Region”; “The Lamellicorn genus *Peltonotus*, with descriptions of four new species”; by Gilbert J. Arrow.

“Descriptions of New Genera and Species of *Syntomidae*, *Arctiadae*, *Agaristidae*, and *Noctuidae*” (Supplementary paper to Catalogue of Moths No. 5); by Sir. G. F. Hampson, Bart.

“Remarks on some new or little known species of *Thynnidae*”; “A revision of the Australian species of the genus *Scolia*”; “Remarks on some genera of the *Scoliidae* with descriptions of New Species”; “Notes on Fossorial Hymenoptera, I.”; by Rowland E. Turner.

“New African Phlebotomic Diptera in the British Museum, (Natural History)”; “New genera and species of blood-sucking Muscidae from the Ethiopian and Oriental Regions, in the British Museum (Natural History)”; “Two Remarkable new species of Diptera”; by Ernest E. Austen.

“New Malayan Rhynchota” “Rhynchotal notes”, XLVI, XLVIII, XLIX; by W. L. Distant.

Arachnida.—“On some new or little-known Mygalomorph Spiders from the Oriental Region and Australasia”; “Ruwenzori Expedition Reports—Arachnida”; by S. Hirst.

Crustacea.—“On a new Crab taken from a deep-sea Telegraph Cable in the Indian Ocean”; “On a New River-Crab of the genus *Gecarcinucus* from New Guinea”; “On the genus *Puerulus*, Ortmann, and the post-larval development of the Spiny Lobsters”; “On a Blind Prawn from the sea of Galilee”; “On decapod Crustacea from Christmas Island, collected by Dr. C. W. Andrews, F.R.S., F.Z.S.”; “Ruwenzori Expedition Reports. 5. Crustacea”; by W. T. Calman.

“The Decapods of the Genus *Gennadas* collected by H.M.S. ‘Challenger’”; by Stanley Kemp.

Echinoderma.—“Report on the Echinoderma (other than Holothurians) collected by Mr. Stanley Gardiner in the Western parts of the Indian Ocean”; by F. J. Bell.

Porifera.—“Notes on *Merlia normani*, Kirkpatrick”; “On the Phylogeny, &c. of the Amphidiscophora”; “On the Regular Hexactine Spicule of Hexactinellida”; by R. Kirkpatrick.

V.—*Acquisitions.*

		Donations.	Purchases.	Exchanges.	Total.	
Mammalia	Wild	3,133	408	114	3,655	
	Domesticated	14	—	—		14
	Human	2	—	—		2
Aves	Various sources, skins	793	2,935	273	4,001	
	Eggs, nests, and skeletons	129	300	—		429
Reptilia		393	231	8	632	
Batrachia		150	159	19	328	
Pisces		724	330	122	1,176	
Tunicata		8	—	—	8	
Mollusca		2,534	958	—	3,492	
Insecta	Sharp Collection	—	30,000	—	65,381	
	Jacoby Collection	—	8,187	—		
	Other sources	24,344	1,698	1,152		
Myriopoda		60	35	—	95	
Prototracheata		—	—	—	—	
Arachnida		1,058	51	—	1,109	
Pycnogonida		7	—	—	7	
Crustacea		2,315	234	80	2,629	
Echinoderma		32	—	—	32	
Worms		232	48	—	280	
Brachiopoda		14	—	—	14	
Polyzoa		66	90	—	156	
Anthozoa		22	—	1	23	
Hydrozoa		111	112	—	223	
Porifera		180	4,346	4	4,530	
Protozoa		18	—	—	18	
Totals		36,339	50,122	1,773	88,234	

MAMMALIA.

The additions to this class during the past year number three thousand six hundred and seventy-one, of which the following are most worthy of note:—

Europe.

Eight mammals from England and Hungary; presented by the Hon. N. C. Rothschild.

An otter from the Avon, Rugby; presented by Dr. T. S. Townsend, J.P.

A white-nosed Dolphin, from the North Sea; presented by the Fishmongers' Company.

A young porpoise from Grimsby; presented by The Board of Agriculture and Fisheries.

Two mammals from Southern Spain; presented by Abel Chapman, Esq.

Asia.

Two hundred and eighty-nine mammals from China collected by Mr. M. P. Anderson; presented by His Grace the Duke of Bedford, K.G., F.R.S.

A co-type of a new mammalian genus from Sze-chuen, China, presented by the Paris Museum.

MAMMALIA—*continued.*

Eleven mammals from Sze-chuen, China, collected by the late J. W. Brooke, Esq.; presented by Mrs. Brooke.

Six mammals from Lake Baikal, Siberia; purchased.

One hundred and twenty-three mammals from Turkestan, collected by Mr. D. Carruthers; purchased.

Eight mammals from Kashmir; presented by Col. A. E. Ward.

Twenty mammals from Sehore, Central India; presented by C. H. T. Whitehead, Esq.

Forty-one mammals from the Punjab, India; presented by Major H. N. Dunn.

Four mammals from Malabar; presented by Major J. G. Dallas.

Seventy mammals from India and Siam; presented by the Royal Army Medical College.

Nineteen mammals from India, Tenasserim, and the Andaman Islands; presented by the Indian Museum.

Twelve mammals from Burma; presented by A. W. Kemmis, Esq.

Twenty-eight mammals from Siam; presented by T. H. Lyle, Esq.

Six hundred and eighty-five mammals from the Rhio Archipelago and Malay Peninsula, mostly collected by H. C. Robinson, Esq.; presented by the Government of the Federated Malay States.

Six mammals from Sumatra; presented by the United States National Museum.

One thousand one hundred and twenty-five mammals from Java, collected by Mr. G. C. Shortridge; presented by W. E. Balston, Esq.

Thirty mammals from Christmas Island; presented by Sir John Murray, K.C.B., F.R.S.

Africa.

One hundred and six mammals from Abyssinia and Somaliland; presented by Dr. R. E. Drake Brockman.

One hundred and thirty-four mammals from Katanga and Lake Bangweolo; collected by S. A. Neave, Esq., M.A.; purchased.

Twenty-four mammals from British East Africa; presented by Dr. S. L. Hinde.

Ninety-seven mammals from Egypt; presented by Capt. S. S. Flower and J. L. Bonhote, Esq., M.A.

Sixty mammals from Angola, collected by Dr. W. J. Ansorge; purchased.

Fifty mammals from the Cameroons, West Africa, collected by Mr. G. L. Bates; purchased.

Thirty mammals from Senegal, collected by W. F. Riggenbach; purchased.

MAMMALIA—*continued.*

Thirteen mammals from East Central Africa, collected by Herr Grauer ; purchased.

Fifteen mammals from the Sankuru River, South Central Congo ; presented by E. Torday, Esq.

Seven mammals from the Sankuru River, South Central Congo ; presented by M. W. Hilton Simpson, Esq.

Ten mammals from Africa ; presented by the Zoological Society.

Forty mammals from Egypt and the Blue Nile ; presented by the Egyptian Government Zoological Gardens.

Seven mammals from Uganda ; presented by L. M. Seth-Smith, Esq.

Seven mammals from Lake Baringo, British East Africa, presented by the Hon. Kenneth Dundas.

Six mammals from Nyasaland ; presented by Rowland Ward, Esq.

Fifty-one mammals from South Africa ; received in exchange from Dr. H. Lyster Jameson.

Fourteen mammals from Angoniland ; presented by Mrs. Colville.

Three mammals from Northern Nigeria ; presented by G. W. Webster, Esq.

Three mammals from Southern Nigeria ; presented by Sir Walter Egerton, K.C.M.G.

Four mammals from the Upper Nile ; presented by A. L. Butler, Esq.

A Fruit Bat from Pemba Island, East Africa ; presented by A. Gunning, Esq.

Two mammals from Nyasaland ; presented by Sir Alfred Sharpe, K.C.M.G.

Five mammals from Tunis ; presented by E. Richardson Cox, Esq.

Two mammals from Rhodesia ; presented by the Rhodesian Museum.

Six mammals from the White Nile ; presented by Christopher C. Tower, Esq.

America, North.

Sixteen mammals from Honduras and Guatemala, collected by Mr. G. C. Shortridge ; presented by the Zoological Society.

Eleven mammals from British Columbia ; presented by J. F. Davison, Esq.

America, South.

Six mammals from Peru ; presented by Oldfield Thomas, Esq.

MAMMALIA—*continued.*

Forty mammals from Colombia; purchased.

Thirty-two mammals from Southern Brazil; purchased.

Sixty mammals from Buenos Aires, collected by Mr. C. H. B. Grant; presented by Ernest Gibson, Esq.

Fifteen mammals from Brazil, collected by Frln. Dr. E. Snethlage; presented by the Goeldi Museum, Pará.

Four mammals from British Guiana; presented by F. V. McConnell, Esq.

Twenty mammals from Santa Marta, Colombia; received in exchange.

Seven mammals from South America; presented by J. A. Wolffsohn, Esq.

Australasia.

Four mammals from Kimberley, N.W. Australia; presented by the Perth Museum, Western Australia.

Sixteen mammals from Kimberley, N.W. Australia; collected by Mr. J. P. Rogers; purchased.

Six mammals from British New Guinea; presented by W. Goodfellow, Esq.

Three mammals from Queensland; presented by L. R. Rate, Esq.

Two Bats from Queensland; presented by the Museo Civico, Genoa.

Oceania.

Three specimens (male, female, and young) of the Southern Elephant Seal, from the Crozet Islands; purchased.

AVES.

The accessions number four thousand four hundred and thirty. Of these the most noteworthy are as follows:—

Europe.

One hundred and eighty birds from Cyprus; collected by C. B. Horsbrugh, Esq.; purchased.

Thirty-six birds and fifteen eggs from Corsica; collected and presented by Major Trevelyan.

Asia.

Five hundred and twenty-three birds from Turkestan, collected by Douglas Carruthers, Esq.; purchased.

Sixty-six birds and thirty-six skeletons from Asia Minor, collected by M. A. Robert; purchased.

Four hundred and ninety birds from Manchuria; purchased.

Twenty-two birds from the Philippine Islands, including ten species new to the collection; purchased.

Fifty-two birds from Christmas Island, Indian Ocean, collected by Dr. C. W. Andrews; presented by Sir John Murray, K.C.B., F.R.S.

Thirty-eight birds from Central Formosa, including a male example of the very rare Pheasant, *Calophasis mikado*, collected by Dr. A. Moltrecht; purchased.

AVES—*continued.*

One hundred and nine birds from the Five-finger Mounts, Hainan—including the types of *Pitta douglasi* and *Tephrodornis hainanus*; collected and presented by Robert Douglas, Esq.

Two hundred and thirty-four birds from Travancore, collected and presented by Surgeon-Major W. Fry.

Fourteen birds and one hundred and thirty-nine eggs from the Andaman Islands, &c.; collected by B. B. Osmaston, Esq.; purchased.

Africa.

Five hundred birds from Angola, collected by Dr. W. J. Ansorge; purchased.

One hundred and twelve birds from Bitye, River Ja, Cameroon, collected by G. L. Bates, Esq.; purchased.

Fifty-two birds, one nest, and four eggs from the Orange River Colony; presented by Donald Gunn, Esq.

Seven hundred and twenty-five birds from N.W. Rhodesia, including the type of *Paludipasser locustella*, a new genus and species, collected by Sheffield A. Neave, Esq.; purchased.

America, South.

Fourteen birds from South America, including ten species new to the Collection; presented by the Director of the Goeldi Museum, Pará.

Seventy-five birds from Venezuela; collected by J. Wayman, Esq.; purchased.

The type of *Troglodytes cobbi*, two nests, and thirty-four eggs from the Falkland Islands; collected and presented by A. F. Cobb, Esq.

Thirty birds from South America; presented by Lady Gipps.

Australasia.

Sixty birds from Australia; presented by Lady Gipps.

One hundred and thirty-nine eggs and two nests from Australia, collected by T. Carter, Esq.; purchased.

One hundred and twenty birds from Bougainville Island and New Guinea, collected by A. S. Meek; purchased.

New Zealand.

Forty-nine birds from New Zealand, collected by Robin Kemp, Esq.; purchased.

REPTILIA.

Six hundred and thirty-two specimens were added, of which three hundred and ninety-three were acquired by presentation, two hundred and thirty-one by purchase, and eight by exchange. The following are worthy of note:—

Europe.

The skeleton of a large Leathery Turtle (*Dermochelys coriacea*), captured on the Welsh Coast in 1907; purchased.

Examples of a remarkable variety of the Grass Snake (*Tropidonotus natrix*) from Jersey; purchased.

REPTILIA—continued.

Asia.

Examples of a rare Lizard (*Latastia cappadocica*) from Asia Minor; presented by Prof. L. von Mehely.

Three Reptiles from Cyprus; presented by J. R. Bucknill, Esq.

Forty-seven Reptiles from Syria, among which the type of a new Lizard (*Acanthodactylus grandis*); presented by M. H. Gadeau de Kerville.

A rare Lizard (*Ophiomorus latastii*) from Syria; presented by A. E. Day, Esq.

Examples of a rare Snake (*Eryx jayakari*) from Arabia; presented by the Giza Zoological Gardens.

A remarkably large example of a rare Lizard (*Eublepharis macularius*) from Persia; presented by the Bombay Natural History Society.

Twenty-eight Reptiles from various parts of India, including examples of several Snakes new to the Collection; presented by Major F. Wall, I.M.S.

Co-types of a new Lizard (*Acanthosaura kumaonensis*) from India; received in exchange from the Indian Museum, Calcutta.

Twelve Reptiles from Ceylon; presented by Dr. A. Willey, F.R.S.

Seven Reptiles from Yunnan; purchased.

Nineteen Reptiles from Formosa, including types of two new Snakes (*Achalinus formosanus* and *Tropidonotus sauteri*); purchased.

A rare Lizard (*Lanthanotus borneensis*) from Sarawak; purchased.

Type specimens of two Lizards (*Lygosoma shelfordi* and *L. vyneri*) and a Snake (*Agrophis saravacensis*) from Borneo; presented by the Sarawak Museum.

Sixteen Reptiles from Dr. C. W. Andrews's Christmas Island Collection; presented by Sir John Murray, K.C.B., F.R.S.

Africa.

Twenty-eight Reptiles from the Algerian Sahara and the Libyan Desert; presented by W. J. Harding King, Esq.

Twelve Reptiles from Egypt and the Sudan, among which a giant specimen of a tortoise (*Testudo calcarata*); presented by Capt. S. S. Flower.

Thirty-five Reptiles from Egypt and the Sudan; presented by the Giza Zoological Gardens.

Three Reptiles obtained in Somaliland by Capt. Ferrandi; presented by the Genoa Civic Museum.

Five Reptiles obtained in Uganda by Dr. Bayon; presented by the Genoa Civic Museum.

Thirteen Reptiles for Usambara, German East Africa, among which a Snake new to the Collection (*Geodipsas vanerongæ*); presented by Dr. P. Krefft.

REPTILIA—*continued.*

Nine Snakes from French Guinea; presented by Dr. E. Gendre.

Six Snakes from the Gold Coast; presented by F. W. H. Miqueod, Esq.

Forty-four Reptiles from South Cameroon, from the Collection of Mr. G. L. Bates; purchased.

Ten Reptiles obtained by Dr. W. J. Ansorge in Angola; purchased.

Sixteen Lizards from Rhodesia; presented by the Rhodesia Museum, Bulawayo.

Twenty-four Reptiles from the Transvaal; purchased.

Nine Reptiles from Port Elizabeth, Cape Colony; presented by F. W. FitzSimons, Esq.

America.

A rare Tortoise (*Staurotypus triporcatus*) from British Honduras; presented by the Zoological Society of London.

A rare Snake (*Phrynonax eutropis*) from Trinidad; presented by R. R. Mole, Esq.

Twenty-seven Reptiles from the Andes of Colombia; presented by Sir Bryan Leighton, Bart.

Seventeen Reptiles from S.W. Colombia, including a Lizard (*Scolecosaurus pallidiceps*) new to the collection, and types of five new Lizards (*Anolis eulæmus*, *A. antonii*, *Prionodactylus palmeri*, *Euspondylus stereolepis*, *Oreosaurus laevis*) and a new Snake (*Geophis nigroalbus*), from the collection of Mr. M. G. Palmer; purchased.

Six Snakes from Brazil; presented by Dr. Vital Brazil.

Sixteen Reptiles from Buenos Ayres; presented by E. Gibson, Esq.

Twenty-seven Reptiles from Chili; presented by the late Ewen Kennedy, Esq.

Australasia.

Seventeen Reptiles from Dutch New Guinea, including a Tortoise (*Emydura novæ-guinææ*) and a Lizard (*Gonycephalus auritus*) new to the collection, from Mr. A. E. Pratt's collection; purchased.

Sixteen Reptiles from Charlotte Waters, Central Australia; purchased.

BATRACHIA.

Of the three hundred and twenty-eight additions, one hundred and fifty were acquired by presentation, one hundred and fifty-nine by purchase and nineteen by exchange. The principal are:—

Europe.

A remarkably large specimen of the Common Newt (*Molge vulgaris*) from Belgium; presented by G. A. Boulenger, Esq., F.R.S.

BATRACHIA—*continued.**Asia.*

Eighteen Frogs from India, mostly larval forms; received in exchange from the Indian Museum, Calcutta.

Twelve Frogs from Yunnan; purchased.

Eighty-six Frogs from Formosa, including types of five new species (*Rana adenopleura*, *R. sauteri*, *Rhacophorus moltrechti*, *Rh. robustus*, *Microhyla steinegeri*); purchased.

Seven Batrachians from Japan; presented by Hon. N. C. Rothschild.

The type of a new Toad (*Bufo valhallæ*) discovered by Mr. G. Meade-Waldo on Pulo-Weh, Sumatra; presented by the Earl of Crawford, K.T., F.R.S.

Type specimens of three Frogs (*Rana sariba*, *Ixalus petersii*, *Calophrynus heterochirus*) from Borneo; presented by the Sarawak Museum.

Africa.

A Toad from Ramleh (*Bufo vittatus*), new to the Egyptian Fauna; presented by Capt. S. S. Flower.

Ten Frogs from Egypt and the Sudan; presented by the Giza Zoological Gardens.

Fourteen Frogs from the Sudan; presented by Captain S. S. Flower.

Seven Batrachians from British East Africa; presented by A. Blayney Percival, Esq.

Fourteen Batrachians from Usambara, German East Africa, among which types of three new species (*Phrynobatrachus krefftii*, *Arthroleptis xenodactylus*, *Hylambates vermiculatus*); presented by Dr. P. Krefft.

A Frog new to the collection (*Rappia fusciventris*) from Liberia; presented by Mr. Lorenz Müller.

Twenty-five Batrachians from Cameroon, from Mr. G. L. Bates's collection; purchased.

America.

Twenty-four Frogs from the United States; presented by Dr. J. T. Nichols.

Eleven Frogs from S.W. Colombia, among which the types of two new species (*Hylodes calcaratus* and *Leptodactylus mantipus*) discovered by Mr. M. G. Palmer; purchased.

Seven Frogs from Buenos Ayres; presented by E. Gibson, Esq.

Australasia.

Eight Frogs from Dutch New Guinea, from the collection of Mr. A. E. Pratt; purchased.

PISCES.

One thousand one hundred and seventy-six specimens were added, seven hundred and twenty-four received by presenta-

PISCES—*continued.*

tion, three hundred and thirty by purchase, one hundred and twenty-two by exchange. The more important accessions are:—

Europe.

Charr from various lochs of Scotland; presented by P. D. Malloch, Esq.

Charr from Loch Killin; presented by Lord Lovat.

Charr from Loch Yada; presented by Sir A. J. Campbell Orde.

Charr from various lakes in Ireland; presented by the Dublin Museum, G. Allen, Esq., A. Matthews, Esq., R. N. Millar, Esq., S. W. McElligott, Esq.

Examples of *Coregonus clupeioides* from Loch Esk; presented by Prof. D'Arcy W. Thompson, C.B.

A large specimen of the Deal Fish (*Trachypterus arcticus*) from Grimsby Market; presented by Dr. A. T. Masterman.

A Dog-fish new to the Collection (*Scyliorhinus indicus*) from deep sea off west of Ireland; presented by E. W. L. Holt, Esq.

Co-types of a Barbel from Spain (*Barbus comiza*); presented by Dr. F. Steindachner.

Asia.

Twelve Fishes from rivers flowing into the Dead Sea; presented by A. E. Day, Esq.

Eight Salmonids from Lake Baikal; presented by Dr. C. Hose.

Trout (*Salmo oxianus*) from Afghanistan; presented by Dr. N. Annandale.

Thirty-seven Skates from the coasts of India, including co-types of several species described as new by Dr. Annandale; received in exchange from the Indian Museum, Calcutta.

A male Cat-fish (*Arius falcarius*) with eggs in the mouth, and embryos of a Skate (*Pteroplatea micrura*) from Madras; presented by J. Hornell, Esq.

Thirty specimens from Lake Candidje, Formosa, collected by Dr. Moltrecht, including types of five new species (*Liobagrus formosanus*, *Pararasbora moltrechti*, *Gymnostomus labiatus*, *Opsariichthys barbatus*, *Salanx acuticeps*); purchased.

Twenty-six small Fishes from S.W. Asia, including types of a new Barbel (*Barbus melanopygus*) from Malacca; presented by Mr. J. Paul Arnold.

Sixty-six Fishes obtained by Dr. C. W. Andrews on Christmas Island, including types of seven new species (*Upeneus andrewsi*, *Cirrhitus murrayi*, *Blennius nativitatis*, *Salaria melanosoma*, *S. natalis*, *S. caudofasciatus*, *Blennius atrocinctus*); presented by Sir John Murray, K.C.B., F.R.S.

PISCES—continued.

Africa.

Sixty-eight specimens from various parts of Africa, among which one of the types of a new Barbel (*Barbus deserti*) from the Algerian Sahara; received in exchange from the Paris Museum.

Thirty-four specimens from Lake Victoria, including types of two new species (*Paratilapia bayonii* and *P. polyodon*), discovered by Dr. E. Bayon; presented by the Genoa Civic Museum.

Thirty-nine specimens from British East Africa, including types of three new Barbels (*Barbus sexradiatus*, *B. apleurogramma*, *B. nairobiensis*); presented by A. Blayney Percival, Esq.

Examples of a new Silurid Fish (*Amphilius krefftii*, from Usambara, German East Africa; presented by Dr. P. Krefft.

One of the types of *Barbus macrolepis*, from German East Africa; presented by the Hamburg Museum.

Twenty-six specimens from West Africa; presented by Mr. J. Paul Arnold.

Ten specimens from Portuguese East Africa, among which the types of three new species (*Gobius occidentalis*, *Gobioides ansorgii*, *Symbranchus afer*), discovered by Dr. W. J. Ansorge; purchased.

Thirty-nine specimens from Lagos, among which the types of three new species (*Gnathonemus brucei*, *Labeo ogunensis*, *Barbus occidentalis*); presented by Major G. E. Bruce.

Thirty-two specimens from Old Calabar; presented by Major W. A. C. Cockburn.

Eighty-six specimens from South Cameroon, among which types of four new species (*Kneria cameronensis*, *Petersius pulcher*, *Clarias jaensis*, *Synodontis pardalis*), from the collection of Mr. G. L. Bates; purchased.

Seventeen specimens from the Congo, among which types of a new species (*Barilius lujae*), from the collection of M. Luja; presented by the Luxemburg Museum of Natural History.

Twenty-six Barbels from Cape Colony, including types of three new species (*Barbus gilchristi*, *B. asper*, *B. hemipleurogramma*); presented by Dr. J. D. F. Gilchrist.

Eighteen specimens from Port Elizabeth; presented by F. W. FitzSimons, Esq.

America.

Fifteen specimens from Jamaica, among which a Parrot-crane (*Pseudoscarus caruleus*) new to the collection; presented by Prof. U. Dahlgren.

Fifty-one specimens from Central and South America, including types of two new species (*Heterogramma pleurotania* and *Chirodon arnoldi*); presented by Mr. J. Paul Arnold.

PISCES—*continued.*

One hundred and seventeen specimens from Costa Rica, including types of several new species, collected by Mr. C. F. Underwood; purchased.

Twelve specimens from British Guiana and Brazil, including co-types of several new species; received in exchange from Prof. C. Eigenmann.

Five specimens from British Guiana, among which types of a new species (*Heros steindachneri*); purchased.

Seventeen specimens from Brazil, among which examples of several species new to the collection; presented by E. Stanley Sutton, Esq.

Twenty-three specimens from the Andes of Colombia, among which a Silurid (*Pimelodus chagresi*) new to the collection; presented by Sir Bryan Leighton, Bart.

Australasia.

Twenty-nine specimens from Tahiti, among which the type of a new Eel (*Gymnomuraena polyspilus*); presented by Dr. A. Günther, F.R.S.

Nineteen specimens from the Sandwich Group, Falkland Islands; presented by W. L. Allardyce, Esq.

TUNICATA.

Three specimens from the Red Sea; presented by the Eastern and Associated Telegraph Companies.

MOLLUSCA.

Three thousand four hundred and ninety-two specimens were added to the collection, of which the most important acquisitions were the following:—

Europe.

One hundred and twenty-seven fine specimens of marine shells from Jersey; presented by H. Spurrier, Esq.

Eleven specimens of Cephalopoda from the West of Ireland, including several species new to the collection; presented by E. W. L. Holt, Esq.

Asia.

One hundred and thirty-nine land shells from Japan, including a large number of species new to the collection; purchased.

One hundred and three marine mollusca from Christmas Island, including the types of three new species; presented by Sir J. Murray, K.C.B., F.R.S.

Seventy-nine marine shells from the Cocos-Keeling Islands; presented by Dr. Wood-Jones.

One hundred and twenty-two land shells from Tonkin, nearly all new to the collection; purchased.

MOLLUSCA—*continued.*

Four hundred and ninety-two marine shells from Bombay, including useful series of many species in good condition; presented by Mrs. Deakin.

Eighty land and freshwater mollusca from Nias Island, West Sumatra, among them four fine examples of the rare *Cyclophorus kibleri*; presented by Dr. K. Martin.

Africa.

One hundred and sixty-seven land and freshwater shells from Uganda, including some very fine series of the genus *Limicolaria*; presented by Capt. P. H. G. Powell-Cotton.

Fifty-four land shells from Angola, among them six new species; purchased.

America.

Thirty-one Marine Mollusca from the Antarctic Region (Sandwich group), including several species new to the collection; presented by Capt. C. A. Larsen.

Australasia.

The type of *Voluta irvinae*, n. sp., from Fremantle, West Australia; presented by Dr. J. C. Cox.

INSECTA.

Sixty-five thousand three hundred and eighty-one specimens have been added to this part of the collection during the year, composed as follows:—

Coleoptera	-	-	-	-	-	-	-	43,260
Lepidoptera	-	-	-	-	-	-	-	12,081
Hymenoptera	-	-	-	-	-	-	-	4,761
Diptera	-	-	-	-	-	-	-	3,225
Rhynchota	-	-	-	-	-	-	-	1,175
Orthoptera	-	-	-	-	-	-	-	596
Neuroptera	-	-	-	-	-	-	-	195
Nests, &c.	-	-	-	-	-	-	-	88
								65,381
							Total	65,381

The following are some of the most important of these accessions:—

From various Localities.

The fifth instalment of the David Sharp Collection, consisting of 30,000 specimens of Brenthidæ and Palæarctic Coleoptera; purchased.

Eight thousand one hundred and eighty-seven Coleoptera Phytophaga, consisting of types and other specimens selected from the collection of the late Mr. Martin Jacoby; purchased.

INSECTA—*continued.*

One thousand eight hundred and sixty-seven Lepidoptera from Africa and Indo-Australia; six hundred and eighty Coleoptera, eighty-five Rhynchota and eighteen Hymenoptera chiefly from North and Central America; presented by F. Ducane Godman, Esq., D.C.L., F.R.S.

Fifteen Lepidoptera, (types); purchased.

Five hundred and sixty Hymenoptera, two hundred and forty-four Diptera and one hundred Rhynchota from Ceylon; six hundred and eighty-six Coleoptera, three hundred and thirty-nine Lepidoptera, one hundred Rhynchota and seventeen Diptera; presented by T. Bainbrigge Fletcher, Esq., R.N.

Five hundred and fifty Lepidoptera, collected during the cruise of the "Valhalla" 1907-08; presented by the Earl of Crawford, K.T., F.R.S.

One hundred and eighty-six Rhynchota; purchased.

One hundred and twenty-two Coleoptera; presented by M. René Oberthur.

Four hundred and fifteen Hymenoptera, chiefly types; purchased.

Seven hundred and thirty Hymenoptera, one hundred and eighteen Lepidoptera, one hundred Coleoptera (including nine types), one hundred and twenty Orthoptera, nineteen Diptera, one Hemipteron, and one Neuropteran from Natal and Rhodesia; two hundred and sixty-five Coleoptera from various localities; one hundred and fifty-four Coleoptera, eleven Rhynchota, eighteen Hymenoptera and eight Diptera from France; presented by G. A. K. Marshall, Esq.

One hundred and thirty-nine Lepidoptera; presented by Lord Walsingham, F.R.S.

Europe.

One Moth, a new genus and species, from Scotland; presented by the Hon. Walter and the Hon. N. C. Rothschild.

Asia.

One hundred and sixty Lepidoptera, two Coleoptera and two Neuroptera from Cyprus; presented by the Hon. John Bucknill.

Three hundred and forty-three Lepidoptera, one hundred and fifteen Coleoptera, eighteen Rhynchota, seventeen Diptera, forty-seven Hymenoptera, one Orthopteron and two Neuroptera from W. China; presented by W. A. Maw, Esq.

Two hundred and eighty-two Lepidoptera, one hundred and five Coleoptera, one Neuropteran, twenty-six Rhynchota, five Diptera, twenty-six Orthoptera and twenty-five Hymenoptera from Japan, Singapore, Johore and Penang; presented by H. N. Ridley, Esq., F.R.S.

One thousand three hundred and thirty-three Lepidoptera from the Oriental Region; presented by P. I. Lathy, Esq.

INSECTA—*continued.*

Three hundred and forty-five Coleoptera, one hundred and forty-two Lepidoptera, six Rhynchota and three Neuroptera from the Philippine Islands; presented by C. Stuart Betton, Esq.

Africa.

One hundred and sixty-one Diptera and five Hymenoptera from Uganda; presented by Col. Sir David Bruce, C.B., A.M.S., F.R.S.

Five hundred and forty-six Lepidoptera and one hundred and fifty-two Diptera from the S.-E. Congo Free State and N.-E. Rhodesia; presented by Sheffield A. Neave, Esq.

Five hundred and forty-one Lepidoptera, ninety-four Diptera, one Hymenopteron, three Rhynchota and eleven Coleoptera from Abyssinia, &c.; presented by Dr. R. E. Drake-Brockman.

One thousand and ninety-seven Lepidoptera from Sierra Leone; presented by Capt. R. McKenzie Skinner.

Two hundred and nine Diptera (Mosquitoes) from Ashanti; presented by Dr. W. M. Graham.

Twenty-nine Coleoptera, chiefly co-types, from German S.W. Africa; received in exchange.

America.

Two hundred Lepidoptera from British Guiana; presented by J. Rodway, Esq.

Six hundred and sixty-six Lepidoptera from South America; purchased.

Five hundred and twenty-four Lepidoptera, thirty-eight Coleoptera, nine Hymenoptera, six Diptera, three Neuroptera, and one Orthopteron from the Falkland Islands, Santos and Rio; presented by Col. A. M. Reid.

Australasia.

Forty-eight Coleoptera, nineteen Orthoptera, three Neuroptera, forty-seven Hymenoptera, thirty-one Rhynchota, seven Diptera and seven Lepidoptera from Hermannsburg, Central Australia; presented by H. J. Hillier, Esq.

One thousand and fifty-six Coleoptera from New South Wales; received in exchange from the Leicester Museum.

Four hundred and forty-four Hymenoptera from Australia, containing many new species; presented by H. M. Giles, Esq.

One thousand and six Hymenoptera, including many types, from Australia; five hundred and eighty-two Hymenoptera from various localities; eighty Hymenoptera from Morocco; and thirty-one Coleoptera from Madagascar; presented by R. E. Turner, Esq.

INSECTA—*continued.*

One hundred and twelve Coleoptera, nine Rhynchota, five Hymenoptera, twenty-four Orthoptera and three Diptera from British New Guinea; presented by Sir William Ingram, Bart.

One hundred and ninety-five Coleoptera, two hundred and thirteen Lepidoptera, eighty-nine Orthoptera, forty-one Neuroptera, thirty-nine Diptera, twenty-two Rhynchota and nine Hymenoptera from Christmas Island; collected by Dr. C. W. Andrews, F.R.S., and presented by Sir John Murray, K.C.B., F.R.S.

Three hundred and seventy Diptera from North Queensland; presented by Dr. T. L. Bancroft.

MYRIOPODA.

The accessions number ninety-five, sixty of which were presented and thirty-five were purchased.

Thirty-five Myriopoda from Egypt and the Sudan; presented by Captain S. S. Flower.

Thirty Myriopoda from Venezuela; purchased.

ARACHNIDA.

The accessions number one thousand, one hundred and nine, one thousand and fifty-eight of which were presented and fifty-one purchased. The following are the most important:—

One hundred and seventy-seven Arachnida from Egypt and the Sudan; presented by Captain S. S. Flower.

Four hundred Ticks from various animals in Northern Nigeria; presented by Dr. C. E. S. Watson.

One hundred and four Ticks from Uganda; presented by Colonel Sir David Bruce, F.R.S.

Ninety-six Ticks taken on various animals in the Malay Peninsula; presented by Dr. R. Hanitsch.

Forty-two Arachnida from British India, including the types of three new species; presented by the trustees of the Indian Museum, Calcutta.

Thirty-five Arachnida from Venezuela; purchased.

CRUSTACEA.

The additions number two thousand six hundred and twenty-nine, of which the following are the most important:—

Europe.

Five specimens of *Chirocephalus diaphanus* from Devonshire; presented by E. E. Austen, Esq.

Twenty specimens of a parasitic Copepod (*Balænoophilus unisetosus*) and three specimens of a Barnacle taken from Whales on the Irish Coast; presented by D. G. Lillie, Esq., B.A.

CRUSTACEA—*continued.*

Two hundred and seventy-one specimens of Schizopoda from the coasts of Ireland; presented by the Department of Agriculture and Technical Instruction for Ireland.

Three specimens of a Mysid from the Clyde; presented by Alex. Patience, Esq.

One hundred and eighty-two specimens of British terrestrial Isopoda; purchased.

Sixteen specimens of Isopoda from Plymouth; purchased.

Four specimens of an Isopod from Ireland; presented by H. Wallis Kew, Esq.

Twelve specimens of Amphipoda from Plymouth; purchased.

Ten specimens of Prawns from Worthing; presented by A. O. Walker, Esq.

Two series (twenty-three specimens) of moulted shells of the Common Lobster, and five specimens of other Crustacea, from Bournemouth; presented by H. J. Waddington, Esq.

Eight specimens of the larval stages of the Common Lobster; received in exchange from the Bergen Museum.

Five specimens of Crayfish from Belgium; presented by Prof. G. Gilson.

Two specimens of a River-Crab from Crete; presented by A. Trevor-Battye, Esq.

Asia.

One specimen of a River-Crab from Cyprus; presented by John Bucknill, Esq.

Three hundred and thirty-eight specimens of Crustacea, including types of five new species, from Christmas Island; presented by Sir John Murray, K.C.B., F.R.S.

Two specimens (co-types) of a new sub-species of Cirripede; presented by the Trustees of the Indian Museum, Calcutta.

Twenty specimens (co-types) of a new species of Mysid Crustacean from India; presented by W. M. Tattersall, Esq.

Two specimens of a remarkable blind Prawn from the Sea of Galilee (*Typhlocaris galilea*, n.g., n.sp.); purchased.

Two specimens of a *Phyllosoma* from Hong-Kong; presented by Lieut. R. H. Scovell, R.E.

Ten specimens of River-Crabs and River-prawns from Yunnan; purchased.

Two specimens of a River-Crab from Palestine; presented by Prof. A. Ely Day.

Thirty-eight specimens of Indian River-Crabs, including co-types of twenty-four new species and varieties; presented by the Trustees of the Indian Museum, Calcutta.

CRUSTACEA—*continued.**Africa.*

Eighty-seven specimens of freshwater Crustacea, including co-types of two species, from Algiers and Tunis; presented by R. Gurney, Esq.

Forty-four specimens of freshwater Entomostraca from the Gold Coast, including types of six species; presented by Prof. R. Newstead.

Seventeen specimens of terrestrial Isopoda from the Tanganyika region (including types of two species) and three hundred and twenty-four specimens of Copepoda, including types of thirty-two species, from the Central African Lakes; presented by the Tanganyika Exploration Committee.

Two hundred and sixty specimens of Amphipoda (including the types of three species) from the Red Sea and British East Africa; presented by Prof. W. A. Herdman, F.R.S.

One specimen of a River-Prawn from Southern Nigeria; presented by P. A. Talbot, Esq.

Ten specimens of a River-Prawn from Natal; presented by Rev. N. Abraham.

A specimen of a Flat Lobster (*Scyllarus elizabethæ*) from Port Elizabeth; presented by F. W. FitzSimmons, Esq.

Six specimens of River-Crabs from Egypt, and two specimens of a River-Crab from the Blue Nile; presented by Capt. S. S. Flower.

Three specimens of a River-Crab from Angola; purchased.

Six specimens of Crabs from West Africa; purchased.

A River-Crab from Nigeria; presented by Dr. J. H. Ashworth.

America.

Forty-four specimens of freshwater Crayfish, and six specimens of a freshwater Prawn, from North America; received in exchange from the Carnegie Museum, Pittsburgh, U.S.A.

Ten specimens of a subterranean Prawn (*Palæmonetes antrorum*) from Texas; received in exchange from the U.S. National Museum, Washington.

Ten specimens of a freshwater Shrimp (*Xiphocaris elongata*); presented by the Imperial Department of Agriculture, West Indies.

Twenty-five specimens of Crustacea from the Falkland Islands; presented by A. F. Cobb, Esq.

Australasia.

Two Crustacea from North Australia; presented by the Eastern and Associated Telegraph Companies.

Two specimens of Cladocera from New Zealand; purchased.

One specimen of a Stomatopod from New Guinea; purchased.

A specimen of a large Australian Crayfish; presented by Dr. Henry Woodward, F.R.S.

CRUSTACEA—continued.

Oceania and Miscellaneous.

Fourteen specimens of Crustacea from St. Helena; presented by Dr. J. T. Cunningham.

Twenty-four specimens of Crustacea from Porto Santo; collected and presented by R. Kirkpatrick, Esq.

Eleven specimens of Crustacea from Mauritius; presented by the Chairman of the Mauritius delegates to the Franco-British Exhibition.

Eighty-nine specimens of Crustacea from the Sandwich Group, Antarctic Ocean; collected and presented by Capt. C. A. Larsen.

One hundred and eighteen specimens of Copepoda from various localities; presented by Dr. R. N. Wolfenden.

One hundred and twenty-five specimens of Antarctic Copepoda, including types of five species; from the "Discovery" collection.

Ten specimens of Cirripedes from the Atlantic Ocean; presented by the Eastern and Associated Telegraph Companies.

Two hundred and ninety-eight specimens of Amphipoda (including the types of three species) from the Indian Ocean; presented by Prof. J. Stanley Gardiner, F.R.S.

PYCNOGONIDA.

The additions number seven, the most important being a specimen of the rare and interesting *Decolopoda australis* from the Sandwich Group, Antarctic Ocean, presented by Captain C. A. Larsen.

ECHINODERMA.

The most interesting Echinoderms were those from the South Atlantic, presented by Capt. C. A. Larsen from the Sandwich Group, and from Mr. A. F. Cobb from the Falkland Islands. Dr. W. G. Ridewood presented some micro-slides of the larval stages of *Antedon bifida* from the classical locality, Cork Harbour.

WORMS.

The most interesting collection obtained during the year was that of the Nemertines collected in the Antarctic by the "Discovery" and "Southern Cross." Some of these are of large size, and they are accompanied by a large number of slides, which have not yet been worked through.

Forty-eight beautifully preserved specimens of Rotifers were purchased of Mr. C. F. Rousselet. Among these may be noted *Pedalion mirum* and *Trochosphaera equatorialis*. Two species of *Pelagobia* from the West Coast of Ireland were presented by Mr. R. Southern, who described them.

WORMS—*continued*.

A large number of specimens of *Branchiura sowerbyi* and of *Sparganophilus eiseni* were collected in the *Victoria regia* House of Kew Gardens.

POLYZOA.

Twenty-seven specimens of freshwater Polyzoa, well-preserved and usually with the polyps expanded, from the Norfolk Broads; presented by H. E. Hurrell, Esq.

Twelve bottles, containing numerous specimens, from Porto Santo Island; collected and presented by R. Kirkpatrick, Esq.

Fifteen specimens from the Atlantic, Red Sea, and Indian Oceans; presented by the Eastern and Associated Telegraph Companies.

Sixty-five specimens, including many co-types, dredged off Tasmania, and described by C. M. Maplestone; presented by the University of Sydney, N.S.W.

ANTHOZOA.

A fine specimen of *Madrepora clathrata*, from Suakin; presented by Colonel P. A. Buckland.

A beautiful specimen of *Cavernularia malabarica*, from Madras; presented by J. Hornell, Esq.

A striking example of *Sarcodictyon catenatu*, from the North Sea; presented by Dr. W. G. Ridewood.

HYDROZOA.

Fifteen specimens from Porto Santo Island; collected and presented by R. Kirkpatrick, Esq.

Twelve specimens from the Atlantic, Red Sea and Indian Ocean; presented by the Eastern and Associated Telegraph Companies.

Fifty-four specimens of Australian Hydroida, including co-types of species described in the "Catalogue of Australian Hydroid Zoophytes" by W. M. Bale; presented by W. M. Bale, Esq.

PORIFERA.

The most valuable addition has been that of the complete collection of Sponges of the *Museum Normanianum* acquired from the Rev. Canon A. M. Norman, D.C.L., F.R.S.

The collection, which comprises 1,995 dry specimens, 392 spirit specimens, and 1,903 micro-slide mountings, includes 195 types, and 184 co-types, the most important types being those figured and described in Bowerbank's "Monograph of British Spongiadæ." In addition, the collection contains co-type specimens and mountings sent to Canon Norman by almost every author who has written on the Sponge Faunas of the Atlantic and Arctic Oceans.

PORIFERA—*continued.*

Thirty specimens from Porto Santo Island, including numerous examples of the remarkable siliceo-calcareous Sponge *Merlia normani*; presented by R. Kirkpatrick, Esq.

Twelve specimens from the Atlantic, Red Sea and Indian Oceans; presented by the Eastern and Associated Telegraph Companies.

Fifty-five specimens from Christmas Island, collected by Dr. C. W. Andrews, F.R.S., including examples of *Astrosclera willeyana* Lister, and specimens of a Pharetron Sponge representing a new sub-family; presented by Sir John Murray, K.C.B., F.R.S.

Portions of four type-specimens of Hexactinellid Sponges from the "Belgica" Antarctic Expedition; obtained by exchange with Prof. E. van Beneden, of Liège.

[A complete set of specimens and fragments of Sponges of this valuable collection is in course of being selected for the Natural History Museum.]

VI.—*Economic Zoology.*

In connection with the Economic Section it has only been possible to attend to some small matters in the exhibited series.

There has been a considerable amount of correspondence respecting blood-sucking flies, the spread of disease by insect agency, and the usual questions as to various injurious species.

The specimens accompanying the questions have been named as far as possible, and advice given as to the best methods of destroying the various pests.

Judging from inquiries received during the year, House-mites in furniture are becoming increasingly annoying.

The following are some of the objects of inquiry:—

1. Flies (*Drosophilidae*) bred from apples grown in Bula-wayo and infested by apple-moths (*Cycligramma latona* and *Sphingomorpha chlorea*).
2. Fly attacking cattle in Cape Colony (*Lyperosia potans*).
3. Flies infesting stems of wheat (*Clinodiplosis equestris*).
4. Flies which are destructive to orange-crops in the Philippine Islands (*Dacus ferrugineus*).
5. Flies which are destructive to cacao in Uganda (*Ceratitis punctata*).
6. Larvæ of fly (*Oestrus variolosus*) from posterior nares of West African Hartebeest.
7. Introduction of wasp (*Monedula*) to keep down Tsetse-fly in Central Africa.
8. Flies causing damage to cabbages by mining the petioles of the leaves. (*Phytomyza flavicornis*).

Economic Zoology—continued.

9. Fly bred from larvæ from a case of nasal myiasis in an old woman. (*Pycnosoma*).
10. Fly preying on mosquito larvae at Hong-Kong. (*Lispa sinensis*).
11. Numerous questions respecting the identification and longevity of Tsetse-flies.
12. Cocoa-nut palms in Fiji injured by *Orthoptera* of the family *Phasmidae* (*Graeffea*).
13. Oak in roof of church damaged by beetle. (*Anobium tessellatum*).
14. Beetle in sacks of oatmeal. (*Anobium paniceum*).
15. Scale insects on wall fruit. (*Lecanium vitis*).
16. Weevil injurious to sweet potatoes in Jamaica. (*Cylas*).
17. Beetle infesting beans from Spain. (*Bruchus flavimanus*).
18. Moths in flour mill at Manchester. (*Ephestia kuhniella*).
19. House-mites in furniture, and in houses.

VII.—*Visitors and Students.*

The total number of visits paid to the three sections of the Department during the year 1909 by Students and other persons requiring assistance or information amounted to 11,461, as compared with:—

10,220	in the year	1908.
11,043	„	1907.
10,813	„	1906.
11,811	„	1905.
11,824	„	1904.
11,627	„	1903.
10,633	„	1902.
12,813	„	1901.
11,923	„	1900.
10,728	„	1899.

Sidney F. Harmer.

DEPARTMENT OF GEOLOGY.

I.—*Arrangement and Conservation.*

Mammalia (Galleries 1 and 2).—A plaster cast of a fossil human mandible from Heidelberg has been mounted in table-case 1, and the exhibited flint implements have been partly re-mounted.

A series of plaster casts of Pliocene mammalian bones, described by Prof. Boyd Dawkins, from a cavern at Dove Holes, Derbyshire, has been mounted for exhibition in table-case 1A.

The remains of Pleistocene rhinoceroses in pier-case 6 have been partly re-arranged to admit an immature skull of *Rhinoceros antiquitatis* from the Thames deposits at Salisbury Square, E.C.

The sternum of the exhibited plaster cast of the skeleton of *Megatherium americanum* has been reconstructed.

A pair of antlers of a red deer (*Cervus elaphus*) from the Mawddach estuary, Barmouth, has been mounted on the pillar between pier-cases 20, 21.

The mandibular teeth and other remains of a young mammoth (*Elephas primigenius*) from Selsey Bill, Sussex, have been mounted for exhibition in table-case 17.

Pier-case 35, containing remains of *Stegodon* from India, has been completely re-fitted and re-painted, and the specimens have been provided with new printed labels.

New printed labels have been provided for the teeth of *Mastodon* in table-case 23.

Models of the skulls of *Moeritherium*, *Palæomastodon*, and *Tetrabelodon*, have been mounted in series on a new stand in front of *Mastodon americanus* to illustrate the development of the Proboscidean skull.

Restored models of the heads of *Moeritherium* and *Palæomastodon*, received from the American Museum of Natural History, have been mounted on the wall near pier-case 43. Beneath them restored sketches of these primitive Proboscideans and *Tetrabelodon* have been framed.

Number of specimens of *Mammalia* registered, 57.

Aves (Gallery 2).—The skeletons of *Aptornis* and *Diaphorapteryx* in case BB have been remounted,

Number of specimens of *Aves* registered, 15.

Reptilia and Amphibia (Galleries 3, 4, 5, 11).—A large new case for the exhibition of Pliosauria has been provided, and

skeletons of *Simolestes* and *Peloneustes* have been mounted on ironwork in it.

The naming and arrangement of the Leeds Collection of Oxfordian Plesiosaurs in cases in the Basement have been revised.

A collection of bones of *Trachodon*, from the Laramie Formation of Wyoming, U.S.A., has been mounted in wall-case 8 for comparison with the remains of *Iguanodon* from the English Wealden.

The Rhynchocephalian reptiles in table-case 14 have been re-tableted with new printed labels.

A new skeleton of *Trionyx italicus* has been framed and exhibited in wall-case 18.

The Seeley Collection of fossil reptiles from the Karoo Formation of South Africa has been prepared and registered. Some of the smaller specimens have been mounted, labelled, and exhibited in table-cases 30-35, while the remains of *Erythrosuchus* and other large specimens have been placed in wall-case 10.

Wall-case 10 has been partly re-fitted and thoroughly re-painted, and all the Karoo reptilian remains contained in it have been provided with new labels.

Wall-cases 9, 10, Gallery 11, containing Triassic and Permian footprints, have been re-painted; and new printed labels have been prepared for all the specimens.

Number of specimens of Reptilia and Amphibia registered, 303.

Pisces (Gallery 6).—Wall-cases 5A and 6 have been cleaned and re-painted, and the Crossopterygian fishes contained in them have been provided with new printed labels.

A large specimen of *Undina gulo*, from the Lower Lias of Lyme Regis, has been framed and fixed on the wall between wall-cases 6, 7.

The Coelacanth fishes have been examined and their arrangement revised, preparatory to re-labelling.

Some slabs of Upper Cretaceous rock from Westphalia, exhibiting shoals of deep-sea Teleostean fishes, have been framed and mounted on the wall between wall-cases 16, 17.

Many recent acquisitions and Chalk fishes have been tableted, with printed labels, for exhibition.

Number of specimens of Pisces registered, 203.

Mollusca (Galleries 7 and 8, and Workroom).—The unexhibited Conularida have been re-arranged and labelled in the drawers of a new cabinet in the Workroom.

The Cephalopoda registered, labelled, and incorporated during the year include:—A series from the Durness Limestone of Sutherland; Devonian specimens from England and Germany;

specimens from the Permo-Carboniferous of New South Wales ; a series from the Triassic and Rhætic beds of the Bavarian Alps ; Triassic and Liassic specimens from Asia Minor ; Jurassic Ammonites from Hungary ; described and figured examples from the Jurassic rocks of S.W. Arabia ; specimens from the Neocomian of the S.E. of France ; a series of Albian Ammonites from the Ardennes ; Cretaceous specimens, chiefly from Kent ; Senonian Belemnites from the South of Sweden ; and various other recent acquisitions.

The additions to the exhibited series include 52 Nautiloids, 24 Ammonoids, and 30 Belemnoids. Of these, 8 have been mounted on blocks and furnished with printed labels ; the rest have been mounted on tablets, and many of them provided with printed labels. Two Palæozoic Nautiloids have been mounted in the small exhibition case between wall-cases 1 and 2. In the four new small exhibition cases, which have been made for Gallery 7, the following have been mounted and provided with printed labels :—a large slab of Inferior Oolite limestone containing Ammonites and Belemnites ; a Cretaceous Ammonite ; two Dibranchiates (*Letpoteuthis*) ; and four slabs including Belemnites.

The naming of part of the exhibited series of both British and Foreign Cretaceous Ammonites has been revised.

Considerable progress has been made with the re-labelling and re-arrangement of the unexhibited Palæozoic Nautiloids and Upper Jurassic Ammonites.

The unexhibited Belemnoids have been removed from table-case 2 and arranged in drawers beneath table-case 16.

The List of types, figured and historical specimens of Fossil Cephalopoda, has been continued.

The exhibited series of British Cambrian Gastropoda and Lamellibranchia has been extended and provided with new printed labels.

The slip-catalogue of the types, figured and historical specimens of Palæozoic Gastropoda and Lamellibranchia is still in progress.

The exhibited collection of British Liassic Lamellibranchia in table-case 14, comprising nearly 400 specimens, has been re-arranged, re-tableted, and re-labelled. The unexhibited part of the same collection has also been arranged in drawers.

The J. F. Blake Collection of British and French Jurassic Lamellibranchia and Gastropoda has been incorporated, and about 40 type-specimens have been tableted and labelled for exhibition.

About 90 specimens of British Cretaceous Lamellibranchia described and figured by Mr. H. Woods in his Monograph of the Palæontographical Society, have been tableted, labelled, and added to the exhibited collection.

78 specimens of Australasian Tertiary Gastropoda, figured in the British Museum Catalogue, have been tableted and labelled for exhibition.

The unexhibited fossil Lamellibranchia and Gastropoda from France have been removed from Gallery 8 to the new cabinets in the Workroom, where they occupy 110 drawers. About 11 of these drawers have been revised and labelled.

The unexhibited Tertiary Lamellibranchia and Gastropoda from Italy have been removed from Gallery 8 to the new cabinets in the Workroom, where they occupy 87 drawers.

Six drawers of Lamellibranchia and Gastropoda from the J. E. Lee Collection have been re-arranged and incorporated.

Among the new Lamellibranchia and Gastropoda registered, labelled, and incorporated during the year, may be specially mentioned the Tertiary series from Burma, collected and described by Mr. L. V. Dalton, and a Cretaceous series from Sweden, obtained by exchange with the University of Lund.

Number of specimens of Mollusca registered: Cephalopoda, 373; Gastropoda, 507; Lamellibranchia, 573.

Arthropoda (Gallery 8 and Workroom).—The collections registered and incorporated during the year include a series of *Olenellus* from the North-west Highlands, and several casts of figured specimens in the Manchester Museum. The main work has been the completion of the Brodie Collection of fossil insects. The mounting, labelling, and registration of the R. S. Bassler Collection of Palæozoic Ostracoda is in progress.

The chief additions to the exhibited series are two large slabs containing the relief and impression of two fine specimens of *Pterygotus anglicus* from the Lower Old Red Sandstone of Carmyllie, Forfarshire, presented by A. W. R. Don, Esq.; the specimen of *Præanaspides* figured by H. Woodward, *Geol. Mag.*, 1908, p. 386, fig. 3, presented by Rev. E. Hinscliff; and the specimens of *Loricula darwini* from the Turonian of Cuxton, Kent, described by H. Woodward, *Geol. Mag.*, 1908, p. 491. Other interesting additions are reproductions of *Oxyuropoda ligioides*, *Limulus woodwardi*, and *Protocarcinus longipes*, also selections from the Scottish *Olenellus* mentioned above.

The exhibited series of foreign Cambrian trilobites has been re-arranged and provided with family-labels, to accommodate further representatives of species and genera from the Rocky Mountains. The British series of *Euproöps* (= *Prestwichia*) from the Coal Measures, and of *Caryocaris* from the Skiddaw Slates, have been revised and provided with new printed labels.

Number of specimens of Arthropoda registered, 4,170.

Annelida (Gallery 8).—The chief work has been the revision, re-mounting, and re-labelling of the exhibited series of *Serpulæ* from the English Chalk, which has been much enriched by recent accessions. The collection has been searched for examples

of boring Annelids, and some specimens have been re-labelled for exhibition.

Number of specimens of Annelida registered, 63.

Polyzoa (Gallery 8 and Workroom).—The collection of Cretaceous Cyclostome *Polyzoa* has been labelled and arranged in cabinets in accordance with the published catalogue.

Among collections of *Polyzoa* registered, labelled, and incorporated during the year, the following may be specially mentioned:—Upper Cretaceous specimens from Rügen, from the Agnes Laur Collection; English Chalk specimens from the Cockburn Bequest, the Gamble Collection, and the W. Harris Collection; specimens from the Greensand of Dorset, collected and presented by W. D. Lang, Esq.; and the Mockler Collection from the Bradford Clay.

Examples of *Polyzoa* in masses forming rocks have been labelled and tableted for exhibition in table-case A. 4.

Number of specimens of *Polyzoa* registered, 2,483.

Brachiopoda (Gallery 8 and Workroom).—The J. F. Walker Collection has been examined, cleaned, and arranged in the original cabinets, which comprise 181 drawers. Much progress has also been made with its registration. The type and figured specimens, about 150 altogether, have been tableted and labelled for exhibition, and a slip-catalogue of these specimens has been prepared.

A series of 73 type and figured specimens of Ordovician Brachiopods from Budleigh Salterton, Vicary Collection, has been tableted and labelled and added to the exhibited collection.

Number of specimens of *Brachiopoda* registered: Walker Collection, 39,164; General Collection, 1,160.

Echinoderma (Gallery 8).—The following are the chief recent accessions registered, labelled, and incorporated:—Crinoidea from the Lower Carboniferous of Inverteil, Fife, (R. Dunlop Collection); Crinoidea, Asteroidea, and Echinoidea from the Chalk of Kent (Cockburn Bequest); Asteroidea and Echinoidea from the Cretaceous of Lebanon (Gollmer Collection); casts of type-specimens of Asteroidea (Manchester Museum); Echinoidea from the Cretaceous of Sweden (Lund University). A beginning has been made in arranging the remainder of the Wright Collection of Echinoidea recently acquired.

Among specimens mounted and labelled for exhibition are a large slab of Muschelkalk with numerous crowns of *Encrinurus carnalli*; the type-specimen of *Tetracrinus (?) felix* from the Red Crag; some recently described Permian examples of *Miocidaris*; several Chalk specimens of *Cardiaster* and other Echinoids (chiefly from the Cockburn Bequest), involving the re-arrangement of the exhibited specimens from the English Cretaceous rocks; a series of the Clypeastroid, *Scutellina patella*, showing a brood-pouch in the females. In accordance

with recently published work, several of the starfishes from the Ludlow Beds have been re-labelled for exhibition.

Number of specimens of Echinoderma registered: Echinoidea, 864; Asteroidea and Ophiuroidea, 13; Crinoidea, 244; Cystidea and Blastoidea, 9. Total, 1,130.

Anthozoa and *Hydrozoa* (Gallery 10).—The exhibited collection of Liassic Corals is being arranged.

Among the recent accessions registered, labelled and incorporated during the year are the following:—Eocene and Carboniferous Corals from Belgium (Piret Collection); English Chalk Corals and Hydrozoa (chiefly Cockburn Bequest); Triassic and Rhætic Corals from the Tyrol (by exchange with Munich Museum); and Devonian Corals from Asia Minor (purchased).

Number of specimens of Anthozoa and Hydrozoa registered, 641.

Porifera (Gallery 10).—A remarkable group of *Hydnoceras bathense*, from the Devonian of New York, has been placed in a special case at the end of Gallery 10.

Cambrian sponges from the N.W. Highlands have been tableted and labelled for exhibition in table-case 15.

The more important sponges registered, labelled and incorporated during the year, are specimens from the English Chalk, from the Lias of Asia Minor, and from the Carboniferous Limestone of Belgium.

Number of specimens of Porifera registered, 135.

Protozoa (Gallery 10).—Samples of Crag (Blake Collection), of Calcaire Grossier, and of Tejares Clay from Malaga (Rupert Jones Collection) have been washed and the contained Foraminifera extracted, mounted, registered, labelled, and incorporated.

The more important collections registered, labelled, and incorporated during the year are Foraminifera from the London Clay, Cambridge Greensand, Oxford and Kimmeridge Clays, English Gault, and Belgian Eocene.

Number of specimens of Protozoa registered, 3,664.

Plantæ (Gallery 10).—The Carboniferous fruits in table-case 25 have been tableted, labelled, and arranged.

A piece of fossil tree from the Tertiary of Antrim has been mounted for exhibition in wall-case 11.

Number of specimens of Plantæ registered, 81.

Tracks and Rock-Specimens (Gallery 11).—A few small additions have been made to the exhibited collection.

Number of specimens registered, 36.

II.—Mounting, etc.

Two large slabs of *Pterygotus* have been prepared for exhibition.

Reptilian remains from the Karoo Formation of South Africa have been extracted from the hard matrix.

The large slab of *Ichthyosaurus platyodon* from the Lower Lias of Lyme Regis has been repaired.

Pliosaurian skeletons, a skull of *Ophthalmosaurus*, and other reptilian remains from the Oxford Clay, have been prepared for study and exhibition.

A skull of *Triceratops* and bones of *Trachodon* from the Laramie Formation of Wyoming, and bones of *Iguanodon* from the Wealden of Sussex, have been prepared for exhibition.

Cretaceous fishes have been prepared for study and exhibition.

Alterations have been made in the sternum of the exhibited cast of the skeleton of *Megatherium*.

The skeletons of *Aptornis* and *Diaphorapteryx* have been repaired and re-mounted.

A large slab of Muschelkalk with numerous specimens of *Encrinurus carnalli* has been prepared for exhibition.

All recent acquisitions, so far as possible, have been trimmed and reduced to a convenient size before incorporation.

Numerous plaster casts have been made both for the Museum and for exchange; and various specimens have been repaired for the Department of Zoology.

III.—*Printing of Labels.*

The Museum Printer continues to devote one day each week to the preparation of labels for the Department of Geology; but an Attendant in the Department composes and prints most of the labels, and has this year prepared upwards of 804 (and 5,854 prints of these).

IV.—*Exchanges and Duplicates.*

Exchanges of plaster casts and duplicate fossils have been made with the following institutions:—Royal College of Surgeons, London; Manchester Museum; National Museum, Melbourne; National Museum of Natural History, Paris; Palæontological Museum, Munich; Royal Museum, Stuttgart; Senckenberg Museum, Frankfort; Carnegie Museum, Pittsburgh; and the Geological Survey of Mexico. Small exchanges have also been made with Messrs. J. R. Farmery, E. P. Field, A. S. Kennard, J. Morgan, J. W. Stather, and H. M. Trower.

Duplicate fossils have been presented to the Royal Institution of Cornwall, the Dominion Museum of New Zealand, and Oaklands Higher Standard School, Hanwell.

Small duplicates and plaster casts for purposes of research have been supplied to Messrs. T. Sheppard, T. G. Taylor, and H. Woods,

V.—*Departmental Library.*

The additions to the Library, which have been registered, stamped, catalogued, and press-marked, comprise 186 new works and pamphlets, of which 55 were purchased and 131 presented; 637 parts of serials in progress, of which 229 were purchased and 408 presented; 285 maps, of which 28 sheets were purchased and 257 presented; 6 sheets of sections were presented; 17 photographs were presented, and 3 volumes were acquired by transfer from other Departments. 171 volumes have been bound during the year. 1,596 visitors used the Library.

VI.—*Publications.*

The second part of the Catalogue of Cretaceous Bryozoa has been published.

A new edition of the Guide Book to Fossil Mammals and Birds has been prepared and published.

The MSS. of the Catalogues of Marine Reptiles of the Oxford Clay and of Fossil Fishes (Supplement), have made progress. The printing of the first of these Catalogues is also in progress.

Apart from the official publications issued by the Trustees, the following descriptive papers dealing with different parts of the collection, chiefly recent acquisitions, have been contributed to scientific journals during 1909 :—

By Dr. Woodward.

1. On some Remains of *Pachycormus* and *Hypsocormus* from the Jurassic of Normandy. *Mém. Soc. Linn. Normandie*, vol. xxiii., pp. 229–34, pl. iii.
2. On Fossil Fish-remains from Snow Hill and Seymour Islands. *Wiss. Ergebn. Schwed. Südpolar Exped.*, 1901–03, vol. iii., pt. 4, with plate.
3. The Fossil Fishes of the English Chalk, Pt. v. *Mon. Palæont. Soc.*
4. On a New Labyrinthodont from Oil Shale at Airly, New South Wales. *Rec. Geol. Surv. N. S. Wales.*, vol. viii., pp. 311–319, pl. li.

By Dr. Bather.

1. *Eocidaris* and some Species referred to it. *Ann. Mag. Nat. Hist.* [8], vol. iii., pp. 43–66, pl. i.
2. The type of *Cidaris*. *Ibid.*, p. 88.
3. Fossil Representatives of the Lithodomous Worm *Polydora*. *Geol. Mag.* [5], vol. vi., pp. 108–110.
4. A Crinoid (*Tetracrinus* [?] *felix*, n. sp.) from the Red Crag. *Geol. Mag.* [5], vol. vi., pp. 205–210, pl. viii.
5. Visit to the Florissant Exhibit in the British Museum (Natural History). *Proc. Geol. Assoc.*, vol. xxi., pp. 159–165.

6. Some common Crinoid Names, and the Fixation of Nomenclature. *Ann. Mag. Nat. Hist.* [8], vol. iv., pp. 37-42.

7. Triassic Echinoderms of Bakony. *Resultate d. wissensch. Erforsch. d. Balatonsees*, vol. i., pt. i. *Palaeont. Anhang.*

By Dr. Andrews.

1. Note on the Mandible of a New Species of *Tetrabelodon* from the Loup Fork Beds of Kansas. *Geol. Mag.* [5], vol. vi., pp. 347-349, figs. A-C.

2. On some new Steosaurs from the Oxford Clay of Peterborough. *Ann. Mag. Nat. Hist.* [8], vol. iii., pp. 299-308, pls. viii., ix.

3. Account of Recent Visit to Christmas Island. *Proc. Zool. Soc.*, 1909, pp. 101-103.

4. On some new Plesiosaurs from the Oxford Clay of Peterborough. *Ann. Mag. Nat. Hist.* [8], vol. iv., pp. 418-429, figs. 1-7.

By R. B. Newton.

1. Cretaceous Gastropoda and Pelecypoda from Zululand. *Trans. Roy. Soc. S. Africa*, vol. i., pp. 1-106, pls. i.-ix.

2. On some Fossils from the Nubian Sandstone Series of Egypt. *Geol. Mag.* [5], vol. vi., pp. 353-359, 388-397, pls. xix., xx., xxi.

By G. C. Crick.

1. Note on the Two Cephalopods collected by Dr. A. P. Young on the Tarntaler Köpfe, in Tyrol. *Geol. Mag.* [5], vol. vi., pp. 443-446, pls. xxvi.

By W. D. Lang.

1. Growth-Stages in the British Species of the Coral Genus *Parasmilia*. *Proc. Zool. Soc.*, pp. 285-307, text-figs. 38-46.

By C. P. Chatwin and T. H. Withers.

1. Contribution to the Fauna of the Chalk Rock. *Geol. Mag.* [5], vol. vi., pp. 66-68, pl. ii.

2. On the Chalk Section at the Waterworks Quarry, Marlow. *Geol. Mag.* [5], vol. vi., pp. 123-125.

By Miss D. M. A. Bate.

1. Preliminary Note on a new Artiodactyle from Majorca, *Myotragus balearicus*, gen. et sp. nov. *Geol. Mag.* [5], vol. vi., pp. 385-388, text-figs. 1-4.

By Dr. R. Broom.

1. On the skull of *Tapinocephalus*. *Geol. Mag.* [5], vol. vi., pp. 400-402, text-figs. 1, 2.

By Miss Mary S. Johnston.

1. On a New Specimen of the Jurassic Ganoid Fish *Pleuropholis lavissima*, Egerton. *Geol. Mag.* [5], vol. vi., pp. 309-311, pl. xxiii.

By Mrs. Jane Longstaff.

1. On the genus *Loxonema* Quart. Journ. Geol. Soc., vol. lxx., pp. 210-228, pls. x., xi.

By C. Thompson.

1. The Ammonite called *A. serpentinus*. *The Naturalist*, 1909, pp. 214-219, pls. xiii.-xv.

By Prof. J. W. Gregory.

1. New Species of Cretaceous Bryozoa. *Geol. Mag.* [5], vol. vi., pp. 61-66.

Various fossils in the Department of Geology have also been described and figured by Prof. S. H. Reynolds, Dr. R. H. Traquair, and Mr. H. Woods, in the Monographs of the Palæontographical Society, vol. lxxiii. for 1909.

VII.—Acquisitions.

A.—By Donation.

Mammalia.—Plaster cast of the type mandible of *Homo heidelbergensis* from Mauer, near Heidelberg. Presented by Dr. Otto Schoetensack.

Plaster casts of two molar teeth of *Pithecanthropus erectus* from Java. Presented by W. Booth Pearsall, Esq., F.R.C.S.I.

Four molar teeth and associated bones of a young Mammoth (*Elephas primigenius*) from the beach at the fishing village of Selsey, Sussex. Presented by Edward Heron Allen, Esq., F.L.S.

The skull of a young *Rhinoceros antiquitatis*, part of the mandible of the same species, mandible and maxilla of *Elephas primigenius*, and fourteen other mammalian bones from the Thames alluvium, Salisbury Square, Fleet Street, E.C. Presented by Frank Lloyd, Esq.

Portion of mandibular ramus of *Rhinoceros* found under a pagoda at Kani, Chindwin River, Burma. Presented by R. C. Rogers, Esq.

Mandibular symphysis of *Equus* from gravel, River Morendat, near Naivasha, British East Africa. Described by Prof. Ridgeway in *Proc. Zool. Soc.*, 1909. Presented by A. C. Hollis, Esq.

Thirty-eight coloured casts of fossils, chiefly Pliocene Mammalian teeth and bones, from a cavern at Dove Holes, near Buxton. Presented by the Director, Manchester Museum.

A mandibular ramus of a rodent from the Oligocene of France. Presented by W. E. Balston, Esq.

Plaster casts of mandible of a new species of *Sthenurus* from the Mammoth Cave, Margaret River, about 200 miles south of Perth, West Australia. Presented by the Hon John W. Hackett, LL.D.

Reptilia and Amphibia.—Counterpart of type specimen of a Labyrinthodont, *Bothriceps major* (A. S. Woodward, Rec. Geol. Surv., N.S. Wales, vol. viii, 1909, pp. 317-319, pl. 51) from the Oil Shale at Airly, New South Wales. Presented by the Directors of the Commonwealth Oil Corporation.

Cheirotherian footprint from the Lower Keuper, Storeton, Cheshire, described by the donor in Rep. Brit. Assoc., 1909. Presented by Henry C. Beasley, Esq.

Seven vertebrate fossils from the Rhætic bonebed, Aust Cliff. Presented by Dr. W. Theophilus Ord.

Two shells of *Pleurosternum* from the Purbeck Beds, Swanage. Presented by Frederick Hovenden, Esq., F.L.S.

Portion of a mandibular ramus of *Iguanodon* from the Wealden of Pevensey, Sussex. Presented by Rev. J. Fowler.

Three footprints of *Iguanodon* from the Wealden of Hurtis Hill, Crowborough. Presented by Messrs. Connor Bros.

Four teeth of *Theriosuchus* from the Wealden of Hastings. Presented by Charles Dawson, Esq., F.S.A.

Ichthyosaurian vertebræ from the Cretaceous, near Townsville, North Queensland. Presented by Horace M. Trower, Esq.

Pisces.—Group of fish-remains from the Lower Devonian of Cornwall. Presented by Upfield Green, Esq., F.G.S.

Sixty Fishes from the Old Red Sandstone and the Jurassic of Scotland, including part of the type-specimen of *Gyrodus goweri*. Presented by R. Marcus Gunn, Esq., M.A., M.B., F.R.C.S.

Fourteen Platsysomid and Coelacanth Fishes from the Permian-Carboniferous of N.W. Madagascar. Presented by George G. Dixon, Esq.

A specimen of *Colobodius* from the Trias of Besano, near Lake Lugano. Presented by Prof. G. de Alessandri.

A specimen of *Chondrosteus acipenseroides* from the Lower Lias of Barrow-on-Soar, Leicestershire. Presented by Montagu Browne, Esq.

A large specimen of *Pleuropholis levissima* from the Lithographic stone, Kelheim, Bavaria. Presented by Miss M. S. Johnston.

A jaw of a Pycnodont fish from the Purbeck Beds, Swanage. Presented by Frederick Hovenden, Esq., F.L.S.

Two fishes from the English Chalk, bequeathed by the late General C. F. Cockburn, presented by Miss Cockburn.

Two specimens of *Eoserranus hislopi* from the Lameta Formation, Dongargaon, Central Provinces, India. Presented by the Director of the Geological Survey of India.

A specimen of *Prolebias gregatus* from the Oligocene of France. Presented by W. E. Balston, Esq.

A tooth of *Carcharodon megalodon* from the Miocene Phosphate Beds of Charlestown, S.C. Presented by Miss Edith J. Cross-Buchanan.

One fish-fragment from the Tertiary of Burma. Presented by W. H. Dalton, Esq., F.G.S. and L. V. Dalton, Esq., B.Sc., F.G.S.

Three fossil fishes from a fresh-water Tertiary formation, Province of Caylloma, Peru. Presented by Bernard Hunt, Esq.

Mollusca.—Eleven Cephalopoda and thirty-seven other Mollusca from the Cambrian of the N.W. Highlands. Presented by the Director of the Geological Survey of Scotland.

Five Gastropods from the Cambro-Silurian of Stony Mountain, near Winnipeg, Canada. Presented by Mrs. A. S. Woodward.

One *Ophidioceras simplex* from the Silurian of Karlstein, Bohemia. Presented by Upfield Green, Esq., F.G.S.

Nine Silurian and eighteen Devonian Mollusca from the Northern Shan States of Upper Burma. Presented by the Director of the Geological Survey of India.

Eighty Mollusca from the Palæozoic of Cornwall and Germany. Presented by Upfield Green, Esq., F.G.S.

One Cephalopod, one Lamellibranch, and two Gastropods from the collection of Devonian fossils made by the late J. W. Brooke, Esq., in the province of Sze-chuen, China. Presented by Mrs. Brooke.

Freshwater Mollusca from the Permo-Carboniferous of N.W. Madagascar. Presented by George G. Dixon, Esq.

Lamellibranchia from the Magnesian Limestone, near Doncaster. Presented by H. Culpin, Esq.

A specimen of *Avicula contorta* from the Rhætic of Devenach, Arran. Presented by James W. Reoch, Esq.

One *Gryphæa incurva* from the Lower Lias, Lyme Regis. Presented by Rev. Henry Housman, B.D.

Thirty-seven Lamellibranchs, five Gastropods, and twenty-eight Cephalopods from the Lias (*capricornus* zone), Napton, near Rugby. Presented by C. H. Watson, Esq.

Nine Ammonites from the Lower Dogger of Csernye, Hungary. Presented by Prof. Dr. Anton Koch.

Two Ammonites from the Cornbrash, Turvey, Bedfordshire. Presented by G. C. Crick, Esq.

One *Macrocephalites compressus*, from the Cornbrash, Scarborough; four Cephalopoda and fourteen Lamellibranchia from the Cornbrash of Yorkshire. Presented by H. C. Drake, Esq., F.G.S.

One Lamellibranch (*Protocardia striatula*) from the Kimmeridge Clay, Hartwell, Bucks. Presented by R. W. Pocock, Esq., F.G.S.

One *Lima* from the Cretaceous of Sandown. Presented by Lieut.-Col. L. Worthington Wilmer.

One *Syncyclonema orbicularis*, with traces of colour-markings, from the Albian (*Hoplites interruptus* zone) of Stonebarrow Cliff, E. of Charmouth, Dorset. Presented by W. D. Lang, Esq.

Thirty Cephalopoda, forty-four Lamellibranchia and nine Gastropoda from the English Chalk, being part of the collection made and bequeathed by the late General C. F. Cockburn. Presented by Miss Cockburn.

One Lamellibranch from the Turonian Chalk, N. of Burghclere, Berkshire. (recorded Proc. Geol. Assoc., vol. xxi., p. 175.) Presented by Mr. T. H. Withers.

A fossil pearl from the Chalk (zone of *Micraster coranguinum*), Fletcher's Pit, Gravesend. Presented by G. E. Dibley, Esq., F.G.S.

A specimen of *Volviceramus involutus* from the Chalk of Yorkshire. Presented by E. B. Lotherington, Esq.

A specimen of the upper valve of an adult example of *Volviceramus involutus* from the Chalk of Yorkshire. Presented by C. Davies Sherborn, Esq.

A flint cast of the smaller valve of *Volviceramus involutus* from a gravel pit, Dorchester. Presented by Mr. A. C. Wray.

Five specimens of *Inoceramus* from the Chalk of Sewerby, Yorkshire. Presented by George Sheppard, Esq.

One *Inoceramus lamarcki* from the Senonian Chalk, Chelsham, Surrey. Presented by F. Gossling, Esq.

A Cephalopod from the Cretaceous of the United States. Presented by Lieut.-Col. L. Worthington Wilmer.

Five Lamellibranchs from the Eocene (coal-ironstone) deposits of Labuan, Borneo. Presented by I. A. Stigand, Esq., F.G.S.

A series of specimens and sections of *Velates conoideus* from the Eocene of the Paris Basin, described and figured by the donor in Proc. Zool. Soc., 1892, pp. 528-40, pls. xxxi, xxxii. Presented by B. B. Woodward, Esq., F.L.S.

A *Nautilus* from the Eocene Limestone of Mokattam, near Cairo. Presented by H. Pearson, Esq.

Lamellibranchs and Gastropods, probably of Miocene age from the Kinabatangan River district, British North Borneo. Presented by I. A. Stigand, Esq., F.G.S.

Three specimens of *Mytilus edulis*, with minute attached pearls, from the Post-Pliocene of Uddevalla, Sweden. Presented by the Director of the Manchester Museum.

Unio covered with tufaceous incrustation from below the peat, Battersea. Presented by C. Davies Sherborn, Esq.

Four Gastropoda (*Ashmunella* and *Pyramidula*) from the Pleistocene of Pecos, New Mexico. Presented by Prof. T. D. A. Cockerell.

Forty-four Lamellibranchia and seventy-one Gastropoda, being part of a collection of Tertiary fossils from Burma, described and figured by L. V. Dalton, Quart. Journ. Geol. Soc., vol. 64 (1908) pp. 604-644, pls. 54-57. Presented by W. H. Dalton, Esq., F.G.S., and L. V. Dalton, B.Sc., F.G.S.

Fifteen Tertiary Lamellibranchia and twenty-five Gastropoda from the United States. Presented by Lieut.-Col. L. Worthington Wilmer.

Five Tertiary Mollusca from Melbourne, Australia. Presented by Lieut.-Col. H. H. Godwin-Austen, F.R.S.

A block of Coral-Limestone, bored by *Lithodomus*, from Barbados. Presented by Prof. J. B. Harrison, C.M.G.

Six shells of *Aetheria* from a late Quaternary deposit, Rift Valley, N. of Lake Baringo, Africa. Presented by the Hon. Kenneth R. Dundas.

Fossil *Ostræa* from the Alluvial deposit beneath the donors' office in Calcutta. Presented by Messrs. Ogilvy, Gillanders & Co.

Arthropoda.—Twenty-five Trilobites from the Cambrian of the N.W. Highlands. Presented by the Director of the Geological Survey of Scotland.

A Trilobite from the Cambro-Silurian of Stony Mountain, near Winnipeg, Canada. Presented by Mrs. A. S. Woodward.

A portion of a Trilobite and a carapace of *Caryocaris* from the Skiddaw Slates, Glenderamakin Force, Cumberland. Presented by J. Postlethwaite, Esq., F.G.S.

A Trilobite (*Homalonotus*) from the Ordovician rock of Llangedynn, N. Wales. Presented by H. Culpin, Esq.

Three Ordovician, five Silurian and four Devonian Arthropoda from the Northern Shan States of Upper Burma. Presented by the Director of the Geological Survey of India.

One *Lichas* from the Wenlock shale, Malvern Tunnel. Presented by Rev. Henry Housman, B.D.

Three plaster casts of the type-specimen of an Isopod *Oxyuropoda vigioides* from the Upper Devonian, Kiltorcan, co. Kilkenny. Presented by the Director of the National Museum, Dublin.

A plaster cast of the type-specimen of *Limulus woodwardi* from the Northampton Sands, Doddington, near Wellingborough. Presented by D. M. S. Watson, Esq.

Seventeen Ostracoda from the Albian (*Hoplites interruptus* zone) of Stonebarrow Cliff and Golden Cap, E. of Charmouth, Dorset. Presented by W. D. Lang, Esq.

Three Arthropoda from the English Chalk; part of the collection made and bequeathed by the late General C. F. Cockburn. Presented by Miss Cockburn.

Six Crustacea, being part of a collection of Tertiary fossils from Burma, described and figured by L. V. Dalton, Quart. Journ. Geol. Soc., vol. 64 (1908). Presented by W. H. Dalton, Esq., F.G.S., and L. V. Dalton, Esq., B.Sc. F.G.S.

Eight Arthropoda, part of a collection of fossils from various British horizons and localities, but chiefly from the Jurassic Rocks of Scotland. Presented by R. Marcus Gunn, Esq., M.A., M.B., F.R.C.S.

Echinoderma.—Twenty-three Echinoderma from the Ordovician of the Northern Shan States of Upper Burma. Presented by the Director of the Geological Survey of India.

A fragment of a Crinoid stem from the Lower Ludlow rocks near Leintwardine. Presented by Arthur R. Beale, Esq.

One *Lovechinus missouriensis* from the Lower Carboniferous of Carterville, and thirteen fragments of *Echinocrinus rossicus* from the Lower Carboniferous of Mjatschkowa, Russia. Presented by Prof. R. T. Jackson.

Twenty-three cups and other remains of Crinoids from the Lower Carboniferous, Hurlet Series, Inverteil, Fife. Presented by R. Dunlop, Esq.

Three specimens of *Miocidaris keyserlingi* from the Magnesian Limestone of Durham, including those figured by F. A. Bather Ann. Mag. Nat. Hist., Jan. 1909, p. 58, text-fig. 2, and pl. i, fig. 17. Presented by the Natural History Society of Northumberland and Durham.

One Crinoid from the Great Oolite of Cox's Pit, Bedford. Presented by G. C. Crick, Esq.

One Crinoid (*Antedon*) from the Great Oolite of Hampton Down, near Bath. Presented by Arthur Hogan, Esq.

Three Echinoderma, part of a collection of fossils from various British localities and horizons, but chiefly from the Jurassic rocks of Scotland. Presented by R. Marcus Gunn, Esq., M.A., M.B., F.R.C.S.

Five hundred Echinoidea, two Asteroidea and a hundred and twenty Crinoidea from the English Chalk, being the greater part of a collection made and bequeathed by the late General C. F. Cockburn. Presented by Miss Cockburn.

Thirty ossicles of *Uintacrinus* from the Chalk, Epsom. Presented by Mr. T. H. Withers.

One Echinoid from the Eocene Limestone of Mokattam, near Cairo. Presented by H. Pearson, Esq.

Four female and two male Echinoids, *Scutellina patella*, the female with a marsupium. From the Barwonian (? Eocene) Polyzoonal Limestone of Nelson, Glenelg R., Victoria. Collected by the donor and described by him Proc. Roy. Soc. Vict., n.s. XX., p. 140, 1908. Presented by T. S. Hall, Esq., M.A.

The type-specimen of *Tetracrinus* (?) *felix* found as a derived fossil in the Red Crag of Felixstowe. Presented by P. G. H. Boswell, Esq.

Brachiopoda.—The collection of Brachiopoda made by the late John Francis Walker, Esq., M.A., F.G.S., of York, comprising more than 100,000 specimens arranged and labelled by him, and including about 130 specimens described and figured by the late Dr. Thomas Davidson. Presented by Mrs. J. F. Walker and Gelson Walker, Esq.

One Brachiopod from the Cambrian of the N.W. Highlands. Presented by the Director of the Geological Survey of Scotland.

Fifty Brachiopods from the Cambro-Silurian of Stony Mountain, near Winnipeg, Canada. Presented by Mrs. A. S. Woodward.

Eleven Ordovician, seven Silurian and fifty-two Devonian Brachiopods from the Northern Shan States of Upper Burma. Presented by the Director of the Geological Survey of India.

A hundred Brachiopods, being part of a collection of Devonian fossils made by the late J. W. Brooke, Esq., in the Province of Sze-chuen, China. Presented by Mrs. Brooke.

A hundred and eighteen Brachiopoda chiefly from the Devonian of Germany, but some from Cornwall. Presented by Upfield Green, Esq., F.G.S.

Brachiopoda from the Magnesian Limestone, near Doncaster. Presented by H. Culpin, Esq.

Seven specimens of *Orbiculoidea babeana* from the Rhætic (*Avicula contorta* zone), Redland, Bristol. Presented by W. H. Wickes, Esq.

Forty-two Brachiopods, being part of a collection of fossils from various British localities and horizons, but chiefly from the Jurassic rocks of Scotland. Presented by R. Marcus Gunn, Esq., M.A., M.B., F.R.C.S.

Six hundred Brachiopods, being part of a collection of English Chalk fossils made and bequeathed by the late General C. F. Cockburn. Presented by Miss Cockburn.

Two Cretaceous Brachiopods from the United States. Presented by Lieut.-Col. L. Worthington Wilmer.

Annelida.—One Annelid from the Cambrian of the N.W. Highlands. Presented by the Director of the Geological Survey of Scotland.

A cast of supposed Annelid track or tube from the Wealden (Horsham Stone) near Horsham, Sussex. Presented by A. C. Stewart, Esq.

Twenty-seven Annelida, being part of a collection of English Chalk fossils made and bequeathed by the late General C. F. Cockburn. Presented by Miss Cockburn.

Three *Serpula plana* attached to *Echinocorys* from the Chalk of Purley, Surrey, and one *S. granulata* from the Chalk of Aston Hill, Oxon., recorded in Mem. Geol. Surv. (expl. sheet 254), Henley-on-Thames, 1908, p. 40. One *Serpula fluctuata* from the Chalk of Oxfordshire and one *S. gordialis* from the Chalk of Surrey. Presented by Messrs. C. P. Chatwin and T. H. Withers.

Polyzoa.—Seven Ordovician and eight Devonian Polyzoa from the North Shan States, Upper Burma. Presented by the Director of the Geological Survey of India.

Seven Polyzoa from the Carboniferous Limestone of Grange, Lancashire. Presented by J. Wilfrid Jackson, Esq.

Polyzoa from the Magnesian Limestone near Doncaster. Presented by H. Culpin, Esq.

One Polyzoan from the Great Oolite, Hampton Down, Bath. Presented by C. Davies Sherborn, Esq.

Three Polyzoa from the Jurassic and Cretaceous of England. Presented by R. Marcus Gunn, Esq., M.A., M.B., F.R.C.S.

Thirty-six specimens of Polyzoa from the Upper Greensand (*Schloenbachia rostrata* zone) of Charmouth, Dorset, belonging to the genera *Entalophora*, *Sparsicavea*, *Clausa*, *Homoeosolen*, *Cerriopora*, *Heteropora*, *Tholopora*, etc. Presented by W. D. Lang, Esq.

Fourteen Polyzoa from the English Chalk, being part of a collection made and bequeathed by the late General C. F. Cockburn. Presented by Miss Cockburn.

Three Polyzoa from the Turonian Chalk, N. of Burghclere, Berkshire (recorded Proc. Geol. Assoc., vol. xxi., p. 175). Three Polyzoa from the Senonian Chalk (zone of *Micraster coranguinum*). Recorded Proc. Geol. Assoc., vol. xx., pp. 390-419. Presented by Mr. T. H. Withers.

A piece of Chalk crowded with Polyzoa from the *mucronatus* zone, I. of Wight. Presented by C. Davies Sherborn, Esq.

Anthozoa and *Hydrozoa*.—Eighteen Corals from the Cambro-Silurian of Stony Mountain, near Winnipeg, Canada. Presented by Mrs. A. S. Woodward.

Three Coelentera from the Silurian and forty-two from the Devonian of the Northern Shan States of Upper Burma. Presented by the Director of the Geological Survey of India.

Six Corals from the Devonian of Cornwall and Germany. Presented by Upfield Green, Esq., F.G.S.

Two Corals, collected by the late J. W. Brooke, Esq., from the Devonian of China. Presented by Mrs. Brooke.

Twenty-one Corals, collected by the donor from the Carboniferous Limestone of Wrington, near Bristol. Presented by C. Davies Sherborn, Esq.

Three Corals from the Lias (*capricornus* zone) of Napton, near Rugby. Presented by C. H. Watson, Esq.

The type-specimen of *Montlivaltia papillata*, from the Lower Lias of Marton, near Gainsborough. Presented by F. M. Burton, Esq., F.G.S.

Fourteen Corals from the Cretaceous of England and the Jurassic of Scotland. Presented by R. Marcus Gunn, Esq., M.A., M.B., F.R.C.S.

Forty-nine Cœlentera from the English Chalk, being part of a collection made and bequeathed by the late General C. F. Cockburn. Presented by Miss Cockburn.

Parasmilia from 4 ft. above the Chalk Rock, N. of Longdown Farm, near Great Hampden, Bucks. Presented by R. W. Poccock, Esq., F.G.S.

A Hydrozoan (*Spinopora dixonii*) from the Chalk (*Micraster coranguinum* zone) of Tilehurst (recorded Proc. Geol. Assoc., vol. xx., pp. 390-419). Presented by Mr. T. H. Withers.

Five Corals, probably of Miocene age, from Porto Santo, Madeira. Presented by R. Kirkpatrick, Esq.

A Coral, probably of Miocene age, from the Kinabatangan River district, British North Borneo. Presented by I. A. Stigand, Esq., F.G.S.

Twenty-two Corals and one Hydrozoan, being part of a collection of Tertiary fossils from Burma, described and figured by L. V. Dalton, Quart. Journ. Geol. Soc., vol. 64 (1908). Presented by W. H. Dalton, Esq., F.G.S., and L. V. Dalton, Esq., B.SC., F.G.S.

Porifera.—Five sponges from the Cambrian of the N.W. Highlands. Presented by the Director of the Geological Survey of Scotland.

One Sponge from the Lower Greensand of the Isle of Wight. Presented by R. Marcus Gunn, Esq., M.A., M.B., F.R.C.S.

Thirty-two Porifera from the English Chalk, part of a collection made and bequeathed by the late General C. F. Cockburn. Presented by Miss Cockburn.

One *Camerospongia* from the Chalk Rock of Oxfordshire. Seventeen Sponges from the *Holaster planus* and *Micraster coranguinum* zones of the Chalk of the Thames Valley, (recorded Proc. Geol. Assoc., vol. xx., pp. 390-419). Presented by Mr. T. H. Withers.

A complete specimen of *Pharetrospongia strahani*, from the Chalk (zone of *Micraster cortestudinarium*), Seaford, Sussex. Presented by C. Davies Sherborn, Esq.

A Sponge (probably *Plinthosella* sp.) from the Upper Chalk, Sutton, Surrey. Presented by W. Murton Holmes, Esq.

Protozoa.—A piece of Foraminiferal Limestone from the Carboniferous Limestone of Grange, Lancashire. Presented by J. Wilfrid Jackson, Esq.

Two-hundred and seventy-nine Foraminifera of about twenty-three genera from the Albian (*Hoplites interruptus* zone) of Stonebarrow Cliff and Golden Cap, Charmouth, Dorset. Presented by W. D. Lang, Esq.

Six Foraminifera from the English Chalk, part of a collection made and bequeathed by the late General C. F. Cockburn. Presented by Miss Cockburn.

Three Foraminifera from the Chalk of the Thames Valley (recorded Proc. Geol. Assoc., vol. xx., pp. 390-419). Presented by Mr. T. H. Withers.

A piece of Nummulitic Limestone from a boring, at a depth of 1,465 feet below the surface, at Sukkur on the Indus, India. Presented by Col. C. E. Shepherd.

Five slides of the type-specimens of *Cyclolocolina annulata* and *C. polygyra* from Selsea, Sussex, described and figured by Heron Allen and Earland, Journ. Roy. Micros. Soc., 1908, pp. 529-543, pl. xii. Presented by Edward Heron Allen, Esq., F.L.S.

A collection of fossils, mostly Foraminifera, probably of Miocene age, from the Kinabatangan River district, British North Borneo. Presented by I. A. Stigand, Esq., F.G.S.

Eight Foraminifera, being part of a collection of Tertiary fossils from Burma described and figured by L. V. Dalton, Quart. Journ. Geol. Soc., vol. 64 (1908), pp. 604-644, pls. 54-57. Presented by W. H. Dalton, Esq., F.G.S., and L. V. Dalton, Esq., B.S.C., F.G.S.

Various Invertebrata.—Four various Invertebrata from the Cambrian of the N.W. Highlands of Scotland. Presented by the Director of the Geological Survey of Scotland.

Five problematical fossils, being part of a collection of English Chalk fossils made and bequeathed by the late General C. F. Cockburn. Presented by Miss Cockburn.

Plantæ.—Twelve specimens of *Glossopteris*, collected by T. E. J. Bailey, Esq., in the Permo-Carboniferous formation of Nyassaland. Presented by the Director of the Imperial Institute.

Amber in coal from the Cretaceous Laramie formation of Marshall, Colorado. Presented by Prof. T. D. A. Cockerell.

Part of silicified tree, embedded in R. Purus, Amazonas State, Brazil. Presented by F. A. Coleridge, Esq.

Two pieces of fossil tree from the line of contact between two basalt-flows in Nelson's Quarry, Ballyhenry, Barony of Lower Belfast, co. Antrim; also two photographs of the quarry. Presented by F. N. A. Fleischmann, Esq., M.A., F.C.S.

Pieces of leaf-bearing tufaceous rock, collected by the donor at Dondo, on the right bank of Quawga River, about 220 kilom. from Loanda, Angola. Presented by Dr. W. J. Ansorge.

A piece of fossil wood from West Point Island, Falkland Islands. Presented by His Excellency W. L. Allardyce, C.M.G., Governor of the Falkland Islands.

Rock Specimens.—A polished section of stalagmite of Carboniferous age occurring in a clay stratum in the Limestone exposed within the grounds at Brentry House, Brentry Hill, near Westbury-on-Trym, Gloucestershire. Also fibrous Calcite, deposited between layers of clay in Carboniferous Limestone, Brentry Hill. Presented by Spencer G. Perceval, Esq.

Three pieces of Carboniferous Limestone, from the neighbourhood of Bristol. Presented by C. Davies Sherborn, Esq.

A scratched stone from the Boulder Clay of Cromer. Presented by J. F. Duthie, Esq.

Miscellaneous.—A plaster copy of a bust of Sir Roderick Impey Murchison, Bart., Trustee of the British Museum 1852-71; the original in the possession of the Geological Society of London. Presented by Miss A. F. Yule.

B.—By Purchase.

Mammalia.—A skull and two jaws of *Zeuglodon*, a skull of *Hyopotamus*, a mandibular ramus of *Geniohyus* and of a *Creodont*, from the Eocene of the Fayum, Egypt.

A tooth of *Palaeotherium*, a tooth of *Anthrocotherium*, and remains of *Paloplotherium*.

Mandible of *Strongylognathus sansaniensis* from the Miocene, Sansan, France.

A pair of antlers of Red Deer from submerged forest, Barmouth.

Molars of *Elephas* from the Pleistocene of Kansas, U.S.A.

Eighteen micro-slides of Siwalik Mammalian teeth (H. Falconer Coll.)

Aves.—Four bones of *Dinornis* from a depth of 40 feet in Banks Peninsula, Canterbury, New Zealand.

Reptilia and Amphibia.—A collection of fossil Reptiles from the Karoo Formation of South Africa, made by the late Prof. H. G. Seeley, including:—Skeleton of *Erythrosuchus africanus*, axial skeleton of a *Dicynodont* (*Kannemeyeria*), skull of *Dicynodon*, three imperfect *Dicynodont* skulls, *Dicynodont* mandible and three fragments, skull of *Ptychognathus*, part of a skeleton of *Cynognathus*, type skull of *C. berryi*, figured part of skeleton of *Microgomphodon*, skull of *Gomphognathus* and portion of mandible, parts of skull of *Hyorhynchus*, type skull of *Trirhacodon berryi*, skull of *Tapinocephalus*, two new *Anomodont* skulls, four figured skulls of *Procolophon*, five *Pariasaurian* bones, *Labyrinthodont* skull, portions of *Labyrinthodont* jaw, *Labyrinthodont* tooth, set of small vertebræ and sacrum and eleven micro-slides. Also supposed

Plesiosaurian embryos from Whitby, opalised Plesiosaurian propodium from N.S. Wales, and two Ichthyosaurian vertebræ from Mombasa.

A skull of *Galesaurus* from the Karoo Formation of Griqualand.

Type skeleton of *Steneosaurus durobrivensis*; two skulls of *Metriorhynchus brachyrhynchus* (figured and described by E. T. Leeds); skull, neck, and fore-paddles of *Ophthalmosaurus*; a new Plesiosaurian vertebral column, &c.; pectoral arch of *Muraenosaurus*; pectoral paddle of *Cryptoclidus*; tail of *Cryptoclidus*; and rib of *Cetiosaurus*. From the Oxford Clay, Peterborough. (Leeds Collection.)

A footprint of *Iguanodon* from the Purbeck Beds of Swanage, and two from the Wealden, Swanage.

Pelvis and sacrum of *Iguanodon dawsoni* and sacrum of *Iguanodon*, Wealden, Hastings. (Dawson Collection.)

Limb-bones of Pterodactyl and part of Carapace of Chelonian from English Chalk. (Dibley Collection.)

Skull and other remains of *Triceratops* from the Cretaceous of Wyoming, and about 50 bones of *Trachodon* and *Triceratops*, two Chelonia, and other reptilian fragments from the Cretaceous of Wyoming and Kansas. (Sternberg Collection.)

Four reptilian bones and one reptilian tooth, in opal, from the Lightning Ridge Opal Fields, near Walgett, New South Wales.

Pisces.—Tooth of *Ceratodus Kannemeyeri* (type) from the Karoo Formation of South Africa.

Dapedius from the Lower Lias of Bidford, Warwickshire.

Two fish-remains (*Heterostrophus* and *Pholidophorus*) from the Oxford Clay, Peterborough.

One vomer of *Microdon* from the Kimmeridge Clay, Weymouth.

A jaw of *Portheus* from the Lower Chalk, Cherry Hinton.

Part of mandible of *Protosphyræna* and skull of *Berycopsis* from the English Chalk.

An associated set of teeth of *Ptychodus polygyrus* from the Chalk, Banstead, Surrey.

16 fishes from the Cretaceous of Mount Lebanon.

5 fishes from the Cretaceous of Kansas.

Diodon and *Anguilla* from the Eocene of Monte Bolca, near Verona.

Galeocerdo and *Carcharias* from the Eocene, Stubbington.

25 Otoliths from the Eocene of Hampshire.

62 Teleostean fishes from the Oligocene of East Galicia.

A large tooth of *Carcharodon megalodon* from South America.

Mollusca.—66 Mollusca from the Ordovician of Canada.

14 Mollusca from the Carboniferous Limestone of Tournai.

Mollusca from the Trias of the Bosphorus.

22 Lamellibranchs from the Kimmeridge Clay of Brill, and

10 Mollusca from the Kimmeridge Clay of Hartwell.

55 Mollusca, mostly from the Upper Jurassic of France.

Belemnites and 2 Lamellibranchs from the Oolite of New Zealand.

62 Mollusca from the Cenomanian of Belgium.

Ostrea from the Cenomanian of Glynde, Lewes.

The type of *Puzosia curvatisulcata* from the Turonian, Buckinghamshire.

Actæonella from the Turonian of Gosau.

8 specimens of *Volviceramus involutus* from the Chalk, Yorkshire.

18 species of Mollusca from the Cretaceous of Hokkaido, Japan.

12 Ammonites, 12 Gastropods, and 2 Lamellibranchs from the Upper Cretaceous, Mount Lebanon.

120 Mollusca from the Laramie and other Cretaceous formations of Wyoming and Kansas.

2 shells in Opal from the Lightning Ridge Opal Fields, Walgett, New South Wales.

1 *Inoceramus*, n.sp., from the Cretaceous of Belgium.

1 shell of *Cyrena britannica* from the Woolwich Beds, Charlton.

2 specimens of *Ostrea* from the Lower Eocene, Chislehurst, Kent.

12 Gastropods from the Oligocene of Creechbarrow, Dorset.

110 Mollusca from the Oligocene of Boom, Belgium.

122 Mollusca from the Upper Oligocene of Erkrath, Westphalia.

About 300 Mollusca from various Tertiary horizons in Belgium.

5 specimens of *Unio margaritifer* from a Thames deposit, Barn Elms.

Arthropoda.—6 Trilobites from the Llandeilo beds of Llandrindod, Central Wales.

1 *Scalpellum simplex* from the Lower Greensand, Folkestone.

2 Crustacea from the Eocene of the Hampshire basin.

A Beetle-elytron from the Bagshot Beds of Bournemouth.

Echinoderma.—95 Echinoderma from the Ordovician, Canada.

A slab of *Encrinurus carnalli* from the Muschelkalk.

One *Isocrinus*, n.sp., from the Jurassic of Virton, Belgian Luxemburg.

Echinoids from the Senonian, Asia Minor, the Trias, Bosphorus, and the Lias of France; Asteroids and Ophiuroids from the Trias of Germany; and *Isocrinus* from the Lias of Normandy.

Echinoderms from the Upper Cretaceous, Mount Lebanon, and from the Upper Cretaceous of Rügen.

2 Echinoids (*Lovenia forbesi*) from the Tertiary, Victoria, Australia.

Brachiopoda. — 36 Brachiopoda from the Ordovician, Canada.

Devonian Brachiopoda from South Island, New Zealand.

Brachiopoda from the Trias of the Bosphorus.

One *Terebratula deslongchampsii* from the Upper Lias, Ilminster.

6 Brachiopoda from the Upper Jurassic of France.

Annelida.—Six *Serpulae* from the Eocene of England.

Annelida from the Upper Cretaceous of Rügen.

Polyzoa.—25 from the Ordovician of Canada; 4 from the Ordovician of Wales; 516 from the Bradford Clay, Bradford on Avon; 177 from the Upper Chalk, near Calne, Wilts; and several from the English Eocene.

Anthozoa and Hydrozoa.—51 Coelentera from the Ordovician, Canada.

110 Graptolites from the Ordovician of Wales.

Devonian Corals from South Island, New Zealand.

11 corals (*Parasmilia*) from the English Chalk.

Corals from the Upper Cretaceous of Rügen.

6 corals from the English Eocene.

Porifera.—42 sponges from the Upper Cretaceous, near Nice, described by P. Počta, Bull. Soc. Géol., France, [4] vol. vii. (1907), pp. 163–173.

Protozoa.—890 Foraminifera from the Oxford, Kimmeridge and London Clays.

1966 Foraminifera from the English Cretaceous and Eocene Rocks.

138 slides of micro-organisms, chiefly Foraminifera, from the Oligocene of Offenbach-on-Main, Germany.

Various Invertebrata.—A selection of 3,000 fossils from the Arthur Champernowne Collection.

Plantæ.—5 plants from the Ordovician, Canada.

46 large micro-slides of Coal-plants from Lancashire and Yorkshire, and 15 other micro-slides of plants from British Coal Measures.

11 Coal-plants from France.

40 Plants from the Culm of Moravia.

100 Leaves from the Cretaceous Dakota group of Kansas, U.S.A.

Plant-remains from the Bagshot Beds of Bournemouth.

Rock Specimens.—Thirty wind-worn pebbles from the Island of Sylt, Denmark.

C.—*By Exchange.*

Portion of antler of *Cervus* from the Forest Bed of Mundesley, Norfolk.

Plaster cast of human calvaria from Cannstadt, Würtemberg. (Stuttgart Museum.)

Plaster cast of type-skull of *Cymatosaurus gracilis* from Muschelkalk, Krappitz. (Stuttgart Museum.)

Gutta-percha cast of fore limb of *Ornithosuchus woodwardi* from Trias, Elgin. (Manchester Museum.)

Four plaster casts of Rhynchosaurian foot-prints from the Trias, Weston Point, Runcorn. (Manchester Museum.)

A collection of 208 Invertebrata from the Trias of Austria and Germany; from Palæontological Museum, Munich.

A collection of 39 Invertebrata from the Silurian of Victoria, Australia; from National Museum, Melbourne.

A piece of Lower Devonian Crinoid Limestone from New York.

A piece of Lenham rock with Pliocene shells.

A Sponge in Chalk-flint, and an Ammonite from the Chalk of Boswell, Louth.

A specimen of *Avicula tenuicostata* from the Chalk of Yorkshire.

Plaster cast of *Protocarcinus longipes* from the Forest Marble of Wiltshire.

In addition to the Walker Collection of Brachiopoda, which comprises upwards of 100,000 specimens, the total acquisitions during 1909 are as follows:—

A.—VERTEBRATA :					
By Donation	-	-	-	-	158
„ Purchase	-	-	-	-	302
„ Exchange	-	-	-	-	8
					468
B.—INVERTEBRATA :					
By Donation	-	-	-	-	3,631
„ Purchase	-	-	-	-	14,247
„ Exchange	-	-	-	-	253
					18,131
C.—PLANTÆ :					
By Donation	-	-	-	-	37
„ Purchase	-	-	-	-	215
					252
D.—ROCK SPECIMENS :					
By Donation	-	-	-	-	6
„ Purchase	-	-	-	-	30
					36
TOTAL					18,887

VIII.—*Visitors and Students.*

The number of visits paid to the Department by students and other persons for the purpose of consultation or study during 1909 was 5,057.

IX.—*Lectures and Demonstrations.*

Seven parties were received in the Galleries of the Department of Geology, and demonstrations were given as follows:—

March 6th.—The Geologists' Association and the Battersea Field Club (32 members); Dr. Bather and Mr. Crick.

March 20th.—Bermondsey Settlement (12 members); Dr. Andrews.

March 27th.—Polytechnic Natural History Society (15 members); Dr. Woodward.

April 3rd.—Hampstead Selborne and Archæological Society (18 members); Dr. Woodward.

April 24th.—Bloomfield Road Mutual Improvement Society, Plumstead (12 members); Dr. Woodward.

October 25th.—The Corresponding Societies' Committee of the British Association (18 members); Dr. Woodward.

December 11th.—Toynbee Hall Natural History Society (12 members); Dr. Woodward.

Arthur Smith Woodward.

January 13th, 1910.

DEPARTMENT OF MINERALOGY.

Research.

During the past year the physical and chemical investigation of specimens belonging to various species has been continued. In the Silicate Division a crystallographic examination has been made of crystals of phenakite recently discovered in Brazil, and two new forms have been noted. In the Phosphate and Arsenate Division, a green arsenate from the Indian manganese deposits has been investigated, and the chemical composition and crystalline symmetry have been determined; a more exact determination of the crystallographic constants of the recently discovered mineral tarbuttite has been made by the measurement of new crystals, and the refractive indices have also been determined; crystals of a new phosphate from the phosphate-rocks of South Australia have been examined; and new occurrences of lazulite from Bolivia, and of xenotime from Western Australia have been investigated.

Specimens of minerals recently collected at the New Brancepeth Colliery, near Durham, have been examined. In this connexion crystals of witherite, the rare mineral alstonite, and ullmannite (a sulph-antimonide of nickel, new to the British Isles) have been measured, optic sections have been cut and examined, and chemical analyses have been made.

Crystallographic and optical measurements have been incidentally made on various other species, including atacamite, calcite, chabazite, corundum, diopside, ilmenite, mimetite, orthite, topaz, and whewellite.

The microscopic examination of dolerites and rhyolites from Natal and Zululand has been completed, and a description has been prepared for publication.

A basalt from Co. Limerick has been microscopically and chemically examined.

A new meteoric stone from Simondium, Cape Colony, has been examined and described.

A camera lucida attachment for drawing "light-figures" and small crystals on the goniometer has been devised.

In the chemical laboratory, quantitative analyses have been made of the green arsenate from India, basalt from Co. Limerick, and olivine from the Simondium meteorite, and partial analyses have been made of alstonite and ullmannite; many doubtful minerals have been qualitatively analysed.

Publications.

A new and enlarged edition of the Introduction to the Study of Rocks has been prepared and published.

The following paper, relating to specimens in the collection, has been published in the "Mineralogical Magazine and Journal of the Mineralogical Society":—

"On the identity of Guarinite and Hiortdahlite": by Dr. F. Zambonini and Dr. G. T. Prior.

Demonstrations.

Demonstrations on the Collections have been given to the Geologists' Association, the Selborne Society, and the Polytechnic Natural History Society.

Miscellaneous.

The preparation of the slip-catalogues of the mineral specimens in the Collection has been continued. This work has been completed for the Arsenides and Sulphides as far as emplectite, and for the Oxides as far as corundum. In this connexion the specimens, including the large series of spinel, have been re-arranged; old and faded register-numbers have been re-written; unsightly labels have been removed from the front to the back of specimens; permanent labels giving all available information have been written, checked, and placed with the specimens for many of the species from copper-pyrites to tetrahedrite; and, in the case of the species, iron-pyrites and marcasite, decomposing specimens have been cleaned and put aside in drawers with quicklime.

A series of liquids of varying refractivity has been prepared to facilitate the determination of the refractive indices of mineral fragments under the microscope.

Twelve new cubes of 60 drawers have been fitted in the Gallery, and the species gersdorffite, glaucodote, hæmatite, gypsum, and barytes have been extended into them.

Samples of card and paper for labels have been examined, and a new label for microscope-slides has been designed.

Re-arrangements of specimens have been made in the Rock-species Collection in accordance with the method of classification adopted in the new edition of the rock-guide, and many new descriptive labels have been prepared.

Ninety-two boxes of mineral specimens have been received, unpacked, and examined; 98 boxes have been packed and despatched.

One hundred and ninety-nine thin slices of rocks have been prepared.

Departmental Library.

To the Departmental Library have been added 73 volumes of separate works, 30 pamphlets, 30 parts of works, 103 mining and survey reports, 2 maps, and 33 periodicals (in 408 volumes and parts); of these, 20 volumes and 6 parts of separate works

27 pamphlets, 103 mining and survey reports, and 11 periodicals (in 127 volumes and parts), were received by presentation or transfer. All of them, including 1,608 plates, have been registered and stamped.

Students.

The number of visits recorded as made to the Department for the purposes of consultation or study is 838.

The Gallery being no longer reserved on particular days of the week for use by students, and study-series having been so arranged as to be directly accessible to the public, and so labelled as to render reference to the staff for information thereon almost completely unnecessary, it has become difficult to distinguish, for statistical purposes, "Students" of minerals from ordinary "Visitors," and stress can no longer be laid on the distinction.

Exchanges.

Exchanges of specimens have been made with the Royal Scottish Museum, Edinburgh, through Dr. S. J. Shand; the Mineralogical Museum of the University of Bonn, through Prof. R. Brauns; the Mineralogical Institute of the University of Königsberg, through Dr. H. E. Boeke; the Scientific and Technical Department, Imperial Institute; Dr. Henri Ungemach of Strassburg; Dr. A. E. H. Tutton, F.R.S.; and the Hon. R. J. Strutt, F.R.S.

Accessions.

843 specimens have been acquired, namely:—

679 minerals, 160 rocks, and 4 meteorites. All of them have been registered, numbered, labelled, and incorporated with the Collection.

The specimens acquired by presentation and exchange, and the more important of those obtained by purchase are as follows:—

Minerals.

By Presentation:

A large series of various gem-stones both in the rough and faceted; including 8 cut blue beryls and sample of the rough stone from Madagascar; 7 faceted tourmalines; pink tourmaline from Madagascar; pink tourmaline cat's-eye from California; 5 cut opals; opal replacing a univalve shell; 9 quartz cat's-eyes (8 of which have been artificially coloured); artificially produced blue spinel (2 cut and 1 rough specimen); emerald crystal in matrix from Norway; 2 cut sapphires (blue and yellow) from Queensland; 2 cut amethysts (one burnt to show change of colour); a well-developed crystal of demantoid from the Urals: by E. Hopkins, Esq.

A fine group of penninite crystals from Zermatt: by the Rev. J. M. Gordon.

Samples of tin-ore from the Transvaal and Tasmania: by N. L. Calder, Esq.

A series of specimens (tourmaline, blue lepidolite, beryl, etc.) collected by the donor at a gem mine in Madagascar: by H. T. Burls, Esq.

Tarbuttite, in sharply developed crystals, and pyromorphite from North-Western Rhodesia; orthite from North Wales: by R. W. Pocock, Esq.

A series of gem minerals (opal, agate, quartz, topaz, turquoise, corundum, zircon, etc.) from various localities in Queensland: by Major J. R. Sankey.

Gold in quartz from Uruguay: by J. W. H. Piper, Esq.

Samples of phosphate-rocks from several localities in South Australia: by the Government of South Australia, through the Agent-General.

Manganite from Bellary, India: by H. Herklots, Esq.

Fulgurites from Uruguay: by C. E. R. Rowland, Esq.

Xenotime crystals from Western Australia: by Prof. J. W. Gregory, F.R.S.

Native copper, with pyrrhotite, in serpentine, from New Zealand: by E. Douglass Isaacson, Esq.

Native gold and gold ore, chalmersite, and a fine crystal of pyrrhotite, from Morro Velho mine, Brazil: by F. Tendron, Esq.

Hyalite from the Opal mine, Saros, Hungary: by W. H. Shrubsole, Esq.

A large series of zeolites (gyrolite, apophyllite, thomsonite, analcite, etc.) recently collected by the donor in the neighbourhood of Belfast; also stilbite from Mexico, natrolite and thomsonite from Bohemia, and a large specimen with heulandite, foresite, etc., from Elba: by F. N. A. Fleischmann, Esq.

Greenalite (a species new to the Collection) from Minnesota: by Prof. C. K. Leith.

Iron ore from Bussaco, Portugal: by Victor Ames, Esq.

A large series of Portugese minerals hitherto unrepresented in the Collection: by Señor Antonio Maria d'Oliveira Bello.

Palmerite (a species new to the Collection) from Italy: by Prof. E. Casoria.

Peridot (three cut stones and three rough crystals) from Burma: by F. Atlay, Esq.

Dolomite, matrix of trechmannite, from Binn, Switzerland: by Dr. C. O. Trechmann.

Crystallized specimens of alstonite, witherite, and ullmannite from New Brancepeth Colliery, Durham : by Messrs. Cochrane & Co.

Witherite and alstonite from New Brancepeth Colliery, Durham : by Brodie Cochrane, Esq.

A faceted orange-coloured zircon from Ceylon : by Sir Arthur H. Church, K.C.V.O., F.R.S.

Allophane from Kent : by R. H. Chandler, Esq.

Barytes, a parallel grouping of very large crystals from Park House mine, Egremont, Cumberland : by Messrs. Cammell Laird & Co., Ltd.

Fluorite from Force Crag mine, near Keswick, Cumberland : by John Postlethwaite, Esq.

Galena from Threlkeld mine, near Keswick, Cumberland : by W. H. Borlase, Esq.

Blende and witherite from Nentsbury mine, Cumberland : by Charles Pugh, Esq.

Galena, large bright crystals, from Leadhills : by Jacob Walton, Esq.

Coal, showing iridescent colours, from Monmouthshire : by A. A. Coles, Esq.

Melanterite from Lyme Regis : by Miss K. Lloyd.

Lazulite, cassiterite, and native gold, from Bolivia : by Malcolm Roberts, Esq.

Serpentine (chrysolite and bowenite) from Transvaal : by W. M. Egglestone, Esq.

Cassiterite crystal from Bolivia : by John B. Minchin, Esq.

Two diamond crystals, andalusite, and quartz : by Prof. M. H. N. Story-Maskelyne, F.R.S.

Cassiterite (wood-tin) and native copper from Perak : by J. B. Scrivenor, Esq.

A large series of minerals (tourmaline, quartz, felspar, lepidolite, etc.) from a gem mine at Mesa Grande, San Diego Co., California : by E. Schernikow, Esq.

Samples of china-clay and other minerals found in the china-clay pits near St. Austell, Cornwall : by J. M. Coon, Esq.

Chalcedony and gypsum from the Algerian Desert : by Hon. Walter Rothschild.

Several pieces of precious opal from Lightning Ridge, New South Wales : by T. C. Wollaston, Esq.

Dendritic pyrolusite on quartz, from Rhenish Prussia : by Upfield Green, Esq.

Flint, enclosing marcasite, from Newbury, Berkshire : by G. E. Dibley, Esq.

Calcite crystals from the chalk near Dover : by General C. F. Cockburn.

Monazite crystal from the Transvaal : by E. Williams, Esq.

Fluor with galena from Broken Hill, New South Wales : by A. Stanley Williams, Esq.

Eight specimens of British minerals to illustrate occurrences not hitherto represented in the Collection (*e.g.*, idocrase and tremolite from Co. Donegal; chessylite and witherite from Shropshire; barytes from Co. Galway; calcite from Wales; scheelite from Devon; etc.) all collected recently by the donor : by Arthur Russell, Esq.

Ten glass models of the "Cullinan" diamond before and after being cut : by W. Newall, Esq.

The larger part, comprising the better specimens, of the minerals, tarbuttite, hopeite, cerussite, hemimorphite, calamine, descloizite, and willemite, from the Broken Hill mines, North-Western Rhodesia, which were exhibited by the donor at the Franco-British Exhibition of 1908; also malachite and chrysotile from Rhodesia, and gold from Gold Coast Colony : by Percy C. Tarbutt, Esq.

Native gold from Southern Rhodesia : by W. Drabble, Esq.

Stibiconite from Mexico, and various minerals from Nevada, Montana, and California : by W. H. Shockley, Esq.

A large and representative series of minerals (including several new species) from the manganese ore deposits of India : by the Government of India, through the Director of the Geological Survey.

A large piece of pitchblende from Cornwall : by T. H. North, Esq.

Pilolite (mountain leather) from Chili : by J. J. Moore, Esq.

A large crystal (weighing 7,470 grams) of calcite (Iceland-spar) from Iceland : by Alfred Maudslay, Esq.

Muscovite from Merionethshire : by Dr. A. Hutchinson.

By Exchange :

Radiotine, a new species, from Dillenburg, Nassau.

Model of a crystallised gold nugget from New South Wales.

Diamonds, with garnet and chrome-diopside, in "blueground" from Kimberley, South Africa.

Picroilmenite from Ceylon.

Whewellite, tetrahedrite, and other minerals from St. Sylvestre mine and other localities in Elsass.

Calco-uranite from Portugal.

By Purchase :

Large faceted stones of citrine (189 grams), rose-quartz (223.5 grams), and colourless topaz (45.15 grams).

Jade, a large polished slice, from New Zealand.

Several fine crystallized examples of gem-minerals from Minas Geraes, Brazil, including tourmaline, beryl, topaz, and phenakite.

Diamond (3 small crystals) from German South-West Africa.

Fine crystallized groups of sulphur, gypsum, salt, etc. from the sulphur mines near Girgenti, Sicily.

Various crystallized sulphates (natrochalcite, kröhnkite, and brochantite) and arsenates (clinochalcite and olivinite) from Chili.

A large specimen of chalcedony (enhydros) with three connected chambers partly filled with liquid, from Uruguay.

A large crystal of perovskite from the Urals.

A large (710 grams) water-worn crystal of blue topaz from Aberdeenshire.

A crystal of hintzeite from Stassfurth, Prussia.

Crystallized cinnabar from China.

Whewellite crystals from Schlan and Kladno, Bohemia.

Turquoise from Nevada and Colorado.

Native iron in basalt from Weimar, Hesse.

Crystals of bröggerite, cleveite, polycrase, monazite, hellandite, phenakite, rosenbuschite, astrophyllite, leucophane, and other rare Norwegian minerals.

A faceted specimen of colourless tourmaline (achroite).

Precious opal, with black enclosures, from New South Wales, and precious opals from Queensland.

Argyrodite, a group of fine crystals, from Bolivia.

Fine crystallized specimens of various minerals from the United States, *e.g.*, tennantite, enargite, mispickel, covellite, etc., from Butte, Montana; tourmaline and beryl (in large tabular crystals) from the gem mines of California; a large plate of crystallized native copper from Lake Superior; a fine group of oligoclase crystals from St. Lawrence Co., New York; crystallized carnotite and calciovolborthite from Colorado; tetrahedrite and iron-pyrites from Utah; native copper from Arizona; herderite, columbite, idocrase, etc., from Maine; datolite, apophyllite, franklinite, etc., from New Jersey.

Hollandite, winchite, and other minerals from the manganese mines of India.

A miscellaneous series of Canadian minerals, including phlogopite, corundum, molybdenite, sodalite, native bismuth, and erythrite.

A series of beautifully crystallized minerals (calcite in twinned and simple crystals, barytes, quartz, chalybite, hæmatite) from the iron mines of west Cumberland.

A series of crystallized minerals (galena, blende, fluor, quartz, calcite) from the lead mines in Weardale, Co. Durham.

Tetradymite, scheelite, wolframite, and other minerals from the wolfram mine at Carrock Fell in Cumberland.

Pectolite, prehnite, analcite, quartz, albite, etc., from the Gimlet Rock, Pwllheli, Carnarvonshire.

British minerals, of occurrences hitherto unrepresented in the Collection, *e.g.*, galena from Leadhills; greenockite from Matlock; malachite crystals from Lancashire, etc.

The following mineral names added to the Museum List were previously not represented by specimens in the Collection:—

Barettite, blanfordite, californite, canfieldite, greenalite, hibschite, ilsemannite, juddite, kaersutite, leesbergite, natrochalcite, palmerite, picroilmenite, radiotine, rinneite, schweizerite, sitaparite, vredenburgerite, winchite.

Rocks.

By Presentation :

A small collection of rock-specimens from Gran Canaria and Tenerife: by Walter Child, Esq.

Miscellaneous rocks from Ayrshire: by John Smith, Esq.

Collections of erratic boulders from the Norfolk and Yorkshire coasts: by W. Carruthers, Esq., F.R.S.

Nepheline-basalt from Cook Islands, New Zealand: by Prof. P. Marshall.

Conglomerate from Bolivia: by F. G. Graham, Esq.

Granite from Egypt: by Captain S. S. Flower.

Kenyte from Antarctic regions: By T. V. Hodgson, Esq.

Two polished slabs of "breccia verde" from Egypt: by W. Brindley, Esq.

"Pencil stone" and "whetstone" from the North of England: by Rev. W. Nall.

A collection of rock-specimens from the Tonopah mining district, Nevada: by W. H. Shockley, Esq.

Specimens of manganese-bearing rocks associated with the manganese ore deposits of India: by the Government of India, through the Director of the Geological Survey.

Musical sand from Swanage: by Sidney Skinner, Esq.

Crystalline limestone from Himalayas: by J. F. Duthie, Esq.

By Purchase :

54 miscellaneous rock-specimens from various localities.

Large sections of gneiss from Bohemia.

A series of 33 specimens collected at successive points in the Lötschberg tunnel, Switzerland.

*Meteorites.**By Presentation:*

Simondium, Cape Colony; three weathered fragments weighing $62\frac{3}{4}$, 42 and 41 grams: by R. T. Hancock, Esq.; and three fragments weighing $445\frac{1}{2}$, $260\frac{1}{2}$, and 136 grams: by R. H. Stanley, Esq.

By Purchase:

San Albano, Italy, a fragment weighing 2.5 grams of the stone which fell on July 12, 1903.

Gibeon, German South-West Africa, a piece weighing 5,130 grams.

These Meteorites belong to falls hitherto unrepresented in the Museum Collection.

G. T. Prior.

DEPARTMENT OF BOTANY.

I.—*Arrangement and Conservation.*

During the past year 29,775 specimens have been incorporated with the Herbarium. This number includes 22,300 Flowering Plants, 1,284 Vascular Cryptogams, 481 Mosses, 945 Hepatics, 2,321 Lichens, 123 Algæ, and 2,321 Fungi.

Flowering Plants.—Collections have been mounted and incorporated as follows:—Europe (Herb. Normale, Dörfler; Batotheca Europæa, Sudre), South France and Switzerland (Thompson), Balkans (Adamovic), Montenegro (Bierbach), Stiria (Hayek), Asia Minor (Sintenis) Egypt (Bornmüller), Malaya (Ridley, Winkler and others), Philippines (Merrill), Japan (Takeda), South and West Africa (Schlechter), Natal and East Africa (Wilms), Sudan (Chevalier), West Australia (Andrews), Gulf States of North America (Tracy), Mexico (Purpus), and a large collection of Jamaica plants presented by the Colonial Secretary for Jamaica. Progress has been made with the selection and incorporation of the herbarium of the late R. P. Murray (European and Canary Islands), and with the determination, selection and incorporation of the early Australian collections. The following collections have been wholly or in part determined and incorporated:—Sherbro Island, Sierra Leone (Hunter), Nigeria (Kitson), Rhodesia (Rand, Monro, Chubb, Swynnerton), Uganda (Brown), Central Africa (Kassner), Angola (Gossweiler), Fiji (Gibbs), Christmas Island (Andrews).

In the division Polypetalæ additions have been made by incorporation, especially in the orders Leguminosæ and Rosaceæ. A considerable amount of time has been devoted to the incorporation and in part identification of collections from various parts of Tropical Africa.

The African species of the genera *Triumfetta* and *Olax* have been rearranged and certain Mexican genera have been revised.

General work of incorporation has been done in the divisions Gamopetalæ and Apetalæ of Dicotyledons and work of determination in the orders Goodenovieæ, Pedalineæ and Euphorbiaceæ (tropical African species).

General work of incorporation has been done in the section Monocotyledons. The British Herbarium has been rearranged and unmounted material incorporated up to date. The work of sorting and arranging duplicate specimens has been completed up to date.

Ferns.—Additions have been made by incorporation in the families Polypodiaceæ, Equisetaceæ; collections from Jamaica, Philippine Islands (Elmer), Malay region (Ridley), Fiji (Gibbs)

and other sources have been mounted and incorporated; and small collections from South Africa and New Zealand have been named.

Bryophyta.—Specimens collected in Fiji by Miss Gibbs have been determined; sections of the Jungermanniaceæ and Marchantiaceæ from Stephani's herbarium and a portion of G. Davies's herbarium, have been incorporated in the general and British series, and a working index to the general collection of Hepaticæ has been prepared.

Algæ.—Work of revision and determination has been done on the Characeæ, Udoteæ and Peridiniæ, and on Algæ from the West Indies, South Africa, Indian and Pacific Oceans. A slip-catalogue of bibliographic and iconographic references for the Peridiniæ has been compiled.

Fungi.—Work of incorporation has been done in the Uredinæ, Pyrenomycetes and Discomycetes, and in Australasian Fungi of C. E. Broome's herbarium; portions of the British series have been rearranged and augmented.

Lichens.—Progress has been made with the incorporation and revision of the British Lichens, chiefly the Graphidæ and Verrucariæ.

Exhibition Series.—Various specimens have been added to the general series in the public gallery; the exhibitions illustrating climbing and epiphytic plants have been rearranged and an exhibition illustrating the dwarfing of plants when growing in dry exposed places has been prepared. A series of coloured drawings of the wild and cultivated varieties of Mushrooms and poisonous or worthless species liable to be mistaken for them has been prepared by Mr. Worthington Smith and placed on exhibition. Progress has been made with the exhibition of a series of British Lichens, and with the selection and preparation of specimens and drawings for an exhibition of British Hepatics. Progress has been made with the exhibition illustrating the general characters of Seed-plants in the Central Hall.

Catalogues.—Progress has been made with the preparation of a *Monograph of the Orchids of Jamaica* by Mr. Fawcett and Dr. Rendle, of a *Catalogue of the Sloane Herbarium* by Mr. Britten, of the second volume, by Miss A. Lorrain Smith, of Crombie's *Catalogue of British Lichens* and of the second edition of Lister's *Monograph of the Mycetozoa*. New editions have been prepared of the *Guide to the British Mycetozoa* (third edition), of the guide to the exhibition of *Books and Portraits illustrating the History of Plant Classification* (second edition), and of *Instructions for Collectors: Plants* (fourth edition).

II.—Publications.

Books and Portraits illustrating the History of Plant Classification (second edition).

Guide to the British Mycetozoa (third edition).

Instructions for Collectors: Plants (fourth edition).

Apart from the official publications issued by the Trustees, the following relating to the collections have appeared:—

Some New Jamaica Orchids, I., II., III. By Dr. Rendle and Mr. W. Fawcett. (Journal of Botany.)

Abnormal Flowers in *Erica cinerea*. By Dr. Rendle. (Journal of Botany.)

Notes from the National Herbarium, II. By Mr. Britten. (Journal of Botany.)

A seventeenth century English Botanist. (Dodsworth; plants in Herb. Sloane.) By Mr. Britten. (Journal of Botany.)

List of Ferdinand Bauer's drawings of Australian Plants. By Mr. Britten. (Journal of Botany.)

Note on *Quercus nigra*. By Mr. Britten. (Journal of Botany.)

Sapium in the Collections of Ruiz and Pavon. By Mr. Britten. (Journal of Botany.)

Gentiana germanica as a British Plant. By Mr. Britten. (Journal of Botany.)

A New Siphonous Alga. By Mr. and Mrs. Gepp. (Journal of Botany.)

Identifications of Rhodesian Polypetalæ. By Mr. Baker. (Journal of Botany.)

A New *Chrysophyllum* from Uganda. By Mr. Spencer Moore. (Journal of Botany.)

Alabastra Diversa. Part XVIII. By Mr. Spencer Moore. (Journal of Botany.)

The Genus *Rotula*. By Mr. Bunting. (Journal of Botany.)

The First Fuegian Collection. By Mr. Morton Middleton. (Journal of Botany.)

Bibliographical Notes.—John Hawkins and his Plates. By Mr. Britten. (Journal of Botany.) Smith's English Flora. By Mr. Wiltshire. (Journal of Botany.)

Further Studies on the Cytology of the Ascus. By Mr. W. E. Brooks and Dr. H. C. I. Fraser. (Annals of Botany.)

New and Rare British Fungi. By Miss A. Lorrain Smith. (Transactions of the British Mycological Society.)

Myxobacteriaceæ. By Miss A. Lorrain Smith. (Transactions of the British Mycological Society.)

The British Pansies. By Dr. Drabble. (Journal of Botany.)

Mosses from the Western Ghats. By H. N. Dixon. (Journal of Botany.)

An undescribed structure in *Mnium*, with notes on the genus *Orthomnion*. By H. N. Dixon. (Revue Bryologique.)

III.—*Exchange of Duplicates.*

Exchanges have been effected with the Botanic Gardens Calcutta; the Botanic Gardens, Singapore; the Herbarium of the Museum d'Histoire Naturelle, Paris; the Botanic Museum, Zurich; the Botanic Gardens, St. Petersburg; and the Botanic Gardens, New York, U.S.A.

IV.—*Loan of Specimens.*

Specimens for determination have been lent as follows:—

29 specimens of Characæ to Mr. Henry Groves; 74 specimens of Goodenoviæ to Dr. K. Krause, Royal Botanic Museum, Berlin; 5 Malayan Palms to Dr. Odoardo Beccari, Royal Museum, Florence; 75 tropical African Euphorbiacæ to the Director, Royal Gardens, Kew.

V.—*Departmental Library.*

The additions during the past year have been, by donation 74 volumes, 102 pamphlets; by purchase, 190 volumes, 3 pamphlets—in all 264 volumes, 105 pamphlets. These include 16 periodicals in 133 parts, presented, and 84 periodicals in 725 parts, purchased—in all 100 periodicals in 858 parts.

146 volumes have been bound.

The incorporation of the large collection of water-colour drawings of Indian plants made by Dr. J. Fleming, with the general plate collection has been completed; 5,000 plates have been mounted, including the series of drawings of ferns. Five volumes of manuscript descriptions of plants by D. Solander, have been arranged and prepared for binding.

VI.—*Acquisitions.*

The following additions have been made to the collections by presentation:—36 specimens of European plants from C. E. Salmon, Esq.; 36 European Roses from Rev. E. S. Marshall; 5 specimens of *Calligonum* from Central Asia, from Dr. Litwinow; 11 specimens from Asia Minor, from R. Campbell Thompson, Esq.; 101 Phanerogams and 17 Cryptogams from Sherbro Island, Sierra Leone, from Mrs. C. B. Hunter; 102 specimens from Rhodesia, from E. C. Chubb, Esq.; 355 specimens from Nigeria, from E. Kitson, Esq.; 41 Phanerogams and 3 Cryptogams from Mabira Forest, Uganda, from Charles R. Ussher, Esq.; 25 specimens from Uganda, from Ernest Brown, Esq.; 60 specimens from Salisbury, Rhodesia, from Dr. Rand; 273 Phanerogams and 27 Cryptogams from Gazaland, from C. F. M. Swynnerton, Esq.; 52 specimens from the Libyan desert, from W. J. Harding King, Esq.; 665 specimens from Victoria, Mashonaland, from C. F. H. Monro, Esq.; 2 specimens from South Africa, from Dr. Bolus; 11 specimens of fruits from Queensland, from Miss E. J. Cross-Buchanan; 43 specimens from New Zealand, South Island, and 75 Cryptogams from

Fiji, from Miss L. S. Gibbs; 110 specimens including 49 Cryptogams from Christmas Island, from Dr. Andrews; 2 specimens of Bark from British Columbia from Rev. E. H. Burgess; 2 Cones from California, from Mrs. J. M. Hutchings; 18 specimens of Woods and 17 Fruits from Tucuman and Salta, from R. Morton Middleton, Esq.; 2,097 Phanerogams and 180 Cryptogams from Jamaica, presented by the Hon. the Colonial Secretary, Jamaica; 14 specimens of Orchids from Jamaica, from Miss Gosset; 30 North American specimens of *Cratægus*, from W. W. Eggleston, Esq.; 15 specimens of fruits from the West Indies, from the Secretary of the West Indian Committee; 2 specimens of cultivated Jamaica Orchids from Dr. Longstaff; 3 specimens of cultivated Orchids from Sir Trevor Lawrence; 2 specimens of cultivated Orchids from Messrs. Charlesworth & Co.; 2 specimens of cultivated Orchids from Messrs. Stuart Low & Co.; 12 cultivated plants from Chelsea Gardens, from the Curator; 114 dissections of cultivated Iris flowers from W. R. Dykes, Esq.; Seeds of *Manihot dichotoma* from Messrs. Honey and Thompson; 12 specimens of cultivated plants from Walter Ledger, Esq.

2 Cryptogams from near Budapest, from Hon. N. C. Rothschild; 245 Mosses of Bolivia, from Sir Martin Conway; 56 Canadian Algæ from Prof. John Macoun; 14 Marine Algæ of Madagascar, from G. Dixon, Esq.; 81 Fuaceous Algæ from the French coasts, from Prof. C. Sauvageau; the Lichens of the British Antarctic Expedition (1901-4) from the Managing Committee; 320 microscope preparations of Laboulbeniaceæ, illustrating his memoir, from Prof. Roland Thaxter; 395 original drawings of Diatoms by the late Prof. R. K. Greville, illustrating his types, from J. Paul Rylands, Esq.; 5 species of Mycetozoa from North America, from Miss G. Lister; Lithothamnia dredged off Madeira, from R. Kirkpatrick, Esq.; 2 microscope-preparations from H. N. Dixon, Esq.; and single specimens from R. Kemp, Esq., Miss E. F. Noel, James Groves, Esq., Prof. Ewart, E. A. Bowles, Esq., W. Le Fèvre, Esq., Dr. Stapf, and H. S. Thompson, Esq.

The additions to the British Herbarium by presentation have been:—8 specimens from Prof. A. H. Trow; 111 specimens from Rev. E. S. Marshall; 163 specimens from Rev. H. J. Riddelsdell; 131 Phanerogams and 7 Cryptogams from G. C. Druce, Esq.; 24 specimens of dwarf plants from the Downs at Freshwater and Eastbourne, from John W. Love, Esq.; 3 specimens of *Rosa* from Rev. Augustin Ley; 12 Lichens of Westmorland and Cumberland, from J. A. Martindale, Esq.; 3 Cryptogams, from E. M. Holmes, Esq.; 3 Fungi from C. E. Hartley Smith, Esq.; 51 Microfungi of Ayrshire, from D. A. Boyd, Esq.; a new British Moss, from Canon H. W. Lett; 2 new or rare British Hepaticæ, from W. R. Sherrin, Esq.; 3 new British Hepaticæ, from W. E. Nicholson, Esq.; and single specimens from T. Gibbs, Esq., Dr. R. Braithwaite, Miss C. E. Larter, Miss M. Knowles, Rev. T. S. Lea, James

Groves, Esq., C. E. Britton, Esq., Dr. F. N. Williams, and Clement Reid, Esq.

The following additions have been made by exchange of duplicates:—268 specimens from Malaya, from the Curator, Royal Botanic Gardens, Sibpur, Calcutta; 455 Phanerogams and 4 Cryptogams from Jamaica, from the Director of the Botanic Garden, New York; 246 Phanerogams and 3 Cryptogams, from the Director, Imperial Botanic Garden, St. Petersburg; 800 Phanerogams and 180 Cryptogams from Malaya, from the Director of the Botanic Gardens, Singapore; 84 Phanerogams and 18 Cryptogams from South Africa, from the Director of the Botanic Museum, Zurich; 236 specimens from the Director of the Herbarium of the Museum d'Histoire Naturelle, Paris; 100 Cryptogams from the Curator of the Botanical Department, Hofmuseum, Vienna,—in all, 2,089 Phanerogams and 305 Cryptogams.

The principal purchases during the year were:—Herb. Normale (Dörfler), Cent. XLIX. and L., from Dulau and Co.; 361 Phanerogams and 3 Cryptogams from Montenegro, from O. Bierbach; 401 specimens from Southern France, etc., from H. S. Thompson; 50 specimens "Bibliotheca Europæa," fasc. VII., from H. Sudre; 84 specimens from Balkans, from Adamovic; 224 specimens "Flora exsiccata Japonica," from Takeda; 542 Phanerogams and 289 Cryptogams from Saghalien, from Rev. U. Faurie; 186 Phanerogams and 14 Cryptogams "Flora Stiriaca exsiccata," fasc. 15–18, from Hayek; 239 specimens from Senegambia, from Aug. Chevalier; 153 specimens from South Africa, District Kentani, from Miss Pegler; 316 Phanerogams and 17 Cryptogams from West Africa, from R. Schlechter; 173 Phanerogams and 22 Cryptogams from Egypt, from J. Bornmüller; 170 Phanerogams and 2 Cryptogams from Natal and East Africa, from F. Wilms; 1,096 Phanerogams and 18 Cryptogams from Rhodesia, Congo Region and Central Africa, from T. Kassner; 457 Phanerogams and 43 Vascular Cryptogams from Mexico, from C. A. Purpus; 464 specimens from Gulf States, from S. M. Tracy; 636 Phanerogams and 130 Cryptogams from Malaya, from H. Winkler; and "Salicetum exsiccatum" fasc. IV., from Toepffer; 236 Cryptogams from the Philippine Islands, from Elmer; 85 Cryptogams from Middleton; 38 exotic Ferns from Rosenstock; 437 Canadian Mosses from Macoun; 150 Mosses of Hanover, from Wehrhahn; 358 Mosses, 81 Hepatics and a Lichen from India, from Levier; 300 Baltic Mosses, from Mikutowicz; 121 Musci Mexicani, from Pringle; 20 North American Hepaticæ, from Haynes; 20 Lichenes Rariores, from Zahlbruckner; 438 Hepatics of Japan and 226 Lichens of Japan and Saghalien, from Faurie; 50 North American Lichens, from Merrill; 50 American Algæ, from Tilden; 100 Fungi selecti and 40 Myxomycetes, from Jaap; 50 Fungi Imperfecti, from Kabát and Bubák; 25 Fungi Parassiti, from Briosi and Cavara; 100 Fungi Saxonici and 50 Fungi injurious to cultivated plants, from Krieger; 50 Ascomycetes, from Rehm; 50 Ascomycetes and Lower Fungi,

from Wilson and Seaver; 100 Micromycetes Rariores Selecti, from Vestergren; 100 German Fungi, from Sydow; 17 British Fungi and 8 Mycetozoa, from Hartley Smith; 35 new or rare British Fungi and 20 microscope-preparations, from Miss A. Lorrain Smith; and 400 Fungi Columbiani, from Bartholomew.

Among the acquisitions by purchase special mention should be made of the herbarium of the late Alphonse Boistel of Paris. This consists of more than 6,200 critically named specimens, being the material upon which is based his "Nouvelle Flore des Lichens" (1902).

VII.—*Demonstrations.*

Demonstrations on the Collections were given by Dr. Rendle to 23 members of the South Place Ethical Society on October 9th, and to 25 members of the Selborne Society on November 13th; and by Mr. Baker to 12 visitors (Mr. Beck's party) on November 6th.

VIII.—*Students and Visitors.*

The number of visits to the Department for consultation and research during the year was 2,712, as compared with 2,315 in 1908, 2,245 in 1907, and 2,065 in 1906. Numerous specimens and small collections have been named for visitors and correspondents; in this, the Staff has received valuable help from Miss Smith (Fungi and Lichens), Mrs. Gepp (Algæ), and Mr. Spencer Moore.

A. B. Rendle.

