



S. 24^a. A. 1.

ANNUAL REPORT
OF THE
CANTERBURY
PHILOSOPHICAL AND LITERARY
INSTITUTION,

PRESENTED AT THE

Annual General Meeting,

25th September, 1827.

Patrons.

The Right Worshipful the Mayor of CANTERBURY,
(for the time being.)

The Right Hon. the Earl of DARNLEY.

The Right Hon. Lord SONDES.

The Right Hon. Lord CLIFTON, M.P.

Sir EDWARD KNATCHBULL, Bart., M.P.

The Right Hon. S. R. LUSHINGTON, M.P.

WILLIAM PHILIP HONYWOOD, Esq., M.P.

JOSEPH ROYLE, Esq.

CANTERBURY:

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3. M. N. H.
General L.

THE NATIONAL ACADEMY OF SCIENCES

OF THE UNITED STATES OF AMERICA

MEMORANDUM FOR THE RECORD

DATE: _____

TO: _____

FROM: _____

SUBJECT: _____

1. The following information was received from _____

on _____

REPORT OF THE COMMITTEE.



THE COMMITTEE, in submitting this Report, the first that has been formally made of the proceedings of the Institution, deem it necessary briefly to advert to the state of the Institution, previous to the last Annual General Meeting, —especially as on that occasion the then Committee were re-elected for the present year.

The Members are aware of the great inconvenience formerly experienced for want of suitable premises for the purposes of the Institution. These, through the liberal aid of the Public, they now possess in the present elegant and convenient Building ; but the manner in which the Subscriptions have been applied, never having been made public, the Committee have deemed it proper to request the Treasurer to furnish a short Abstract of the Accounts previous to the last year, in order that the Subscribers may see that the Subscriptions have been applied to the objects for which they were intended.

The Committee do not consider it will be required, that the whole of the Society's, or of their Proceedings, during the last year, should be contained in this Report, as the Members have the opportunity of inspecting the Records in which they appear.

The Members will find extracted a list of the Lectures which have been delivered. The interest, importance, and diversity of the subjects cannot have failed to communicate much useful and pleasing information; and the expectation that the Institution would be the means of calling forth latent talent, has been realized in the successful endeavors of several youthful Members. The scientific discoveries and improvements of Mr. W. H. Weekes, do honor to the talents and industry of that Gentleman,—are duly estimated by every Member,—and reflect credit on the Institution from which they have emanated. The increased number of Lecturers has enabled the Committee to arrange for the delivery of a Lecture every week, instead of once a fortnight, as was the case at the commencement of the present year.

The Abstract of the Treasurer's Accounts, will shew the general state of the Funds. The income arising from the subscriptions of the Members, and from the Museum, has been considerable.—The expenditure, though the strictest economy has been observed, has been very heavy and far exceeds what will be again required.

The Committee have to acknowledge, that the Institution is much indebted to several of its Members for pecuniary assistance. Amongst these the Committee cannot forbear particularizing Thomas Foord, Esq., to whom the thanks of this Institution are especially due.

The Committee have to express their satisfaction in having, by the voluntary offer of assistance from some of the Members, effected arrangements for the gratuitous instruction of the Members in the Latin and French Languages. This being a new and pleasing extension of the objects contemplated to be attained, is an evidence of the general utility to which the Institution, if zealously supported, may arrive.

Among the Honorary Members of the Institution, the Committee congratulate the Members on their possessing the names of several eminent and distinguished individuals;—and on the great increase of Members in the past year.

The attendance at the Lectures has given great satisfaction to the Committee; and the number of Ladies who have visited the Lecture Room, evinces that they also are interested in the objects and views of the Institution.

The Committee refer with pleasure to the gratifying Report of the Directors and Curators, as to the state of the Museum.

The period over which the duties of the Committee have extended, has been one of great anxiety and difficulty; but they have now the gratification to see the Institution arrived at a degree of permanent stability and usefulness.

In surrendering into the hands of the Members the powers delegated to them, the Committee trust, that it will be considered they have exercised them for the benefit of the Institution, and they feel convinced, that if the same ardent desire and active exertions, which have been hitherto manifested to promote its objects and secure its prosperity, continue to influence the Public and the Members, its establishment on the basis of public utility will be certain, its beneficial consequences incalculable, and the most sanguine wishes of its best friends realized.

LIST OF LECTURES.



- 1826 }
 Oct. 17 } Mr. Wm. Masters, Introductory Address.
 31 } Mr. W. H. Weekes, on Chemistry.
 Nov. 14 } Mr. Wilkinson, on the History of England.
 28 } Mr. G. Newport, on Entomology.
 Dec. 12 } Mr. Ashdowne, on Electricity.
 26 } Mr. Read, on Mathematics.
- 1827 }
 Jan. 23 } Mr. Phillips, on Astronomy.
 Feb. 6 } Mr. W. Brent, on Poetry.
 20 } Mr. W. H. Weekes, on Chemistry.
 March 6 } Mr. G. Newport, on Entomology.
 20 } Mr. W. Masters, on the English Poets.
 April 3 } Mr. Ashdowne, on Electricity.
 10 } Mr. Read, on Mathematics.
 17 }
 24 } Mr. G. Newport, on Entomology.
 May 1 } Mr. W. Brent, on Poetry.
 8 } Mr. Phillips, on Astronomy.
 15 } Mr. W. H. Weekes, on Chemistry.
 22 } Mr. Martin, on the Philosophy of the Mind.
 29 } Mr. W. Masters, on the English Poets.
 June 5 } Mr. J. Fletcher, on Mechanics.
 12 } Mr. J. Brent, jun., on Pneumatics.
 19 } Mr. Wilkinson, on Hydrostatics.
 26 } ———, on the History of England.
 July 3 } Mr. Ashdowne, on Electricity.
 10 } Mr. J. Fletcher, on Mechanics.
 17 } Mr. W. H. Weekes, on Chemistry.
 24 } Mr. W. Philpot, jun., on Gymnastics.
 31 } Mr. Martin, on the Philosophy of the Mind.
 Aug. 7 } Mr. W. Masters, on the English Poets.
 14 } Mr. J. Fletcher, on the History of Philosophy.
 21 } Mr. Ashdowne, on Electricity.
 28 } Mr. Read, on Architecture.
 Sept. 4 } Mr. J. Friend, on Ornithology.
 11 } Mr. G. Newport, on Entomology.
 18 } Mr. Wilkinson, on the History of England.

T. WILKINSON, *Secretary*.

ABSTRACT OF THE TRUSTEES' ACCOUNT.

<i>Dr.</i>	<i>£. s. d.</i>	<i>Cr.</i>	<i>£. s. d.</i>
To Public Subscriptions	984 19 0	By Mr. Admans removing Stables, as per contract ..	168 7 0
Cash borrowed of T. Foord, esq. on the joint bond of the Trustees	1000 0 0	Mr. Jennings, in part of contract	700 0 0
Cash borrowed of Members of the Institution	112 8 0	Mr. F. Hacker, residue of ditto	780 10 0
Cash from the Funds of the Institution	41 12 8	Advertising Subscriptions, &c.	46 8 0
		Mr. T. Hacker, for glass Cases, &c. as per contract	299 0 7
		Mr. Hurst, for Stoves, &c.	27 2 3
		Gas Company, for fittings, &c.	17 1 0
		Mr. Admans, for additional work	10 11 6
		J. J. Pierce, Esq. solicitor, his Expenses	24 6 1
		The Assignees of Mr. F. Hacker, for plans, &c. of Glass cases	15 10 0
		Messrs. Pout, for book cases, &c. as per contract .	31 11 11
		Mr. Ashdowne, for coverings to tables, seats, &c.	6 14 6
		Sundry expenses for fittings in Museum	11 16 10
	<u>£2,138 19 8</u>		<u>£2,138 19 8</u>

ROBERT ASHDOWNE, *Treasurer.*

DONATIONS TO THE LIBRARY.

	<i>Folio.</i>	<i>Quarto.</i>	<i>Octavo.</i>	<i>Duodecimo.</i>	<i>Pamphlets.</i>
Mr. Alderman R. Frend	11	9	66	29	6
John Williamson, Esq.	1		6		
Thomas Lever Burch, Esq.			30		
H. W. Carter, Esq. M.D. F.R.S.E. ...	1	2	2		
Mr. Benjamin Barnard			5		
R. P. Cruden, Esq. Gravesend					1
Mr. George Stone		2			
Mr. John Pout		3	7	1	3
Mr. S. Phillips			2		
Mr. J. C. Claris			5	1	127
Mr. T. Hart	4				
Mr. S. Mourilyan, Deal				1	
Mr. Fletcher	1				
Mr. John Friend			4		
F. W. Hohler, Esq.				1	
William Sharpe, Esq.			6		
Mr. Thelwall, London			4		2
Miss Kenrick, Oswalds			5		
William Bland, Esq. Hartlip				1	
Mr. Lacey			6		
Gideon Mantell, Esq. Lewes		1			
William Frend, Esq. London	1	12	53	7	6
Sir Egerton Brydges, Bart.			9	1	
	19	29	210	42	145

JOHN POUT, *Librarian.*

PRESENTATIONS OF APPARATUS.



Convex and Concave Mirrors.
 Mechanical Apparatus complete.
 Brass Hydraulic Apparatus.
 Various Glass Apparatus, for Chemical purposes.
 Large Electrical Cylinder and Stand.
 Two large Electrical Jars.
 Pair of 18-inch Globes.

Presented by Mr. Alderman Frend and the Members of the
 late Philosophical Society.



Aikin's portable Furnace for Chemical Experiments complete.
 Large wooden Gasometer, various Crucibles, &c.
 Two tin Gasometers.
 Two large earthen Retorts.

Presented by John Williamson, Esq.



Priestly's Electrical Apparatus.
 Apparatus with wheel for Electrical purposes.
 Glass Receiver for Air Pump.
 Various Chemical Glass Apparatus.

Presented by Mr. Alderman Frend.



Compound Microscope, presented by Mr. George Kirkby.



Pair of 21-inch Globes, presented by the Right Hon. S.
 R. Lushington, M.P.

S. PHILLIPS,

Guardian of Apparatus.

REPORT OF THE DIRECTORS AND CURATORS OF THE MUSEUM.



At the commencement of the year 1825, while yet the Philosophical and Literary Institution was in its infancy, certain of its Members conceived the idea of establishing a Museum, as the most desirable means of diffusing information on various subjects connected with general knowledge, and more especially with the several departments of Natural History.

In a short time, and before any actual formation existed, an opportunity occurred of obtaining the Collection of Mr. Crow, who had expended a long life in the acquisition of Fossils, and to which some other miscellaneous articles were appended.

With a degree of enthusiasm which must ever be applauded, some Members of the Institution pledged themselves to the payment of an annuity to Mr. Crow, to become possessed of his Specimens. Thus a basis was formed for a more general arrangement, and the detail of the Society's proceedings will shew the means taken for its becoming more generally useful.

It was considered that when once the knowledge of such a Collection existed—devoted to the public—that public would not long remain indifferent, but that the small collection would

become as it were a nucleus for the reception of specimens or curiosities which might be scattered in various private cabinets, and which rarely could see the light of day : nor in this fond hope have the Society miscalculated, as the subjoined list of presentations will amply testify.

Owing to public liberality, and the sedulous exertions of some of the Members, new departments of Science have been elucidated, and many of those already commenced, materially enlarged. Still, however, before any of the Series can be completed, the successive labor of years, and the continuation of that liberal aid which has already been so unremittingly bestowed will be required. Perhaps many of the intermediate links may only be attainable by Exchanges of duplicate specimens, a mode calculated to effect a double benefit, and one already resorted to, in the relations entered into with the Portsmouth and other similar Institutions.

The past season has been characterized by peculiar activity ; for besides the ordinary business of the Society, the Museum has been arranged, and a Synopsis of its contents published : and it is most gratifying to add, that both have met the decided approval of the scientific part of the Visitors, while those who are less so, have acknowledged the gratification they have received from the inspection of the one, and the perusal of the other.

Not the least pleasing part of the retrospect is that derived from the consideration that several of the most distinguished scientific characters have joined the Institution, as Drs. Buckland, Haviland, and Kidd ; Sir Anthony Carlisle ; G. Mantell, Esq. F. R. S. ; Wm. Frend, Esq. M. A., &c., whose names will warrant application on any of the subjects they are eminent in, concerning which the Society may require additional information.

The utmost economy has been used in the appropriation of the funds devoted by the Committee for the purposes of the Museum ; and the reason that so much has been effected with such small means, in justice to those concerned, cannot be concealed—it is that every officer of the Institution and Museum, (excepting only the Exhibitor and Collector.) however arduous his exertions, has cheerfully GIVEN his services.

In conclusion, it is really flattering to remark how signally public opinion has been, and is, in favor of the views of the Institution, as a glance at the names of the Donors and the Members, will sufficiently evince. Nor must the fact be overlooked, that since the opening of the Museum for public inspection in December last, upwards of 1500 persons, unconnected with the Institution, have visited the Collection ; and from the method of arrangement, added to the objects being each ticketed, it is fair to presume that few could have inspected it, without acquiring some additional information ; thus confirming the views of those in whom it originated, and realizing their wish for the more general diffusion of Science.

LIST OF DONATIONS TO THE MUSEUM.



Quadrupeds.

DONORS.

Mustela putorius (Polecat)—Mustela	
Foina (Martin)	Mr. W. H. Weekes
Sciurus vulgaris (Squirrel) stuffed ..	John Brent, Esq.
Canis vulpes (Fox)	Mr. J. Martin
Ursus Lotor (Racoon)	Messrs J. & W. Masters
Erinaceus Europæus (Hedge Hog)	
stuffed	Mr. H. Lepine
Vespertilio auritus (Long-eared Bat)	
Talpa Europæa (Mole) stuffed ..	Mr. W. Wickes
Sciurus vulgaris (Squirrel)	Mr. Nisbett
Mus musculus (Mouse) variety stuffed	Mr. Sladden.

Birds.

Thirty stuffed specimens, including	
Falco peregrinus (Peregrine Falcon)	
Strix nyctea (Snowy Owl)—Strix	
minima (Least Owl)—Upupa epops	
(Hoopoe)—Alca alle (Little Ank)	
Pelecanus bassanus (Gannet)—Ar-	
dea major (Heron)—Scolopax major	
(Great Snipe)—Rallus porzana	
(Spotted Gallinule)—Phasianus col-	
chicus (Pheasant, white variety, male	
and female)—Tetrao Lagopus (Ptarm-	
igan)—Parus biarmicus (Bearded	
Titmouse, &c. &c.	G. C. Oxenden, Esq.
Nineteen specimens, comprising Falco	
cyaneus (Henharrier)—Upupa	
epops (Hoopoe)—Anas fuligula	
(Tufted Duck.)—Larus marinus	
(Great black-backed Gull)&c. &c.	Mr. W. H. Weekes
Ardea purpurea (Crested purple He-	
ron) stuffed	T. B. B. Barrett, esq.

- Ardea stellaris* (Bittern)—*Tetrao rufus*
 (Red-legged Partridge) stuffed Rev. T. A. Mutlow
Charadrius himantopus (Long-legged
 Plover) stuffed Rev. E. Sandys
Fulica chloropus (Moor-hen) Mr. G. Newport
Picus major (Greater-spotted Wood-
 pecker) Mr. Thorp
Picus viridis (green Woodpecker)—
Alcedo Ispida (Kingsfisher) Mr. C. F. Dowsett
Anas albifrons (white-fronted Goose) Mr. W. Masters
Mergus albellus (Smew) Mr. J. Wood
Pavo cristatus (Peacock) Mr. W. Long
Yunx torquilla (Wryneck)—*Motacilla*
Troglodytes (Wren) Mr. Fry
Colymbus Immer (Imber Diver) Mr. J. Friend
Larus canus (common Gull)—*Hirundo*
apus (Swift) Mr. Nisbett
Columba Turtur (Turtle Dove) Mr. Wells
Tetrao Scoticus (Red Grouse) male and
 female, stuffed J. Dombrain, esq.
Picus major (greater-spotted Wood-
 pecker) Mr. Thomas Ladd
Cuculus canorus (Cuckow) Mr. W. Philpot
Pelecanus bassanus (Gannet) Mr. W. Wickes
 Ten specimens, including *Falco sub-*
buteo (Hobby) &c. &c. F. A. Tomlin, esq.
Trochilus viridissimus. (gold-green
 Humming-bird) Mr. A. Sicard
Larus marinus (black-backed Gull)—
Anas Tadorna (Shieldrake) H. W. Carter, esq. M.D.
Picus viridis (green Woodpecker) and
 three others John Brent, esq.
Otis Œdionemus (thick-kneed Bustard) Mr. F. Collard.
Tetrao perdix (Partridge) light-co-
 lored variety Hon. John Bligh
Anas Tadorna (Shieldrake) Mr. R. Freeman
Phasianus colchicus (Pheasant m. & f)
Tetrao perdix (Partridge, m. & f.). Lord Sondes.
 Fine specimen of the Emu, or South-
 ern Ostrich, stuffed Earl Darnley
Ardea virgo (Numidian Crane) stuffed John Parnell, esq.
Psittacus Erythacus, (Grey Parrot)
 stuffed Mr. S. Hacker

- Ardea major* (Heron) Mr. F. Giraud
Phasianus colchicus (Pheasant m. & f.) C. Stacey, esq.
Ardea stellaris (Bittern) Mr. Spicer
Loxia chloris (green Linnet) variety Mr. Wachters
Phasianus colchicus (Hen Pheasant
with male plumage) Lord Clifton, M.P.
Motacilla rubicola (Stone-chat) and 2
other specimens Miss Kenrick
Scolopax Gallinago (Snipe) light-co-
lored variety Mr. Jennings
Anas ferina (red-headed Wigeon) Mr. Bilbe
Ardea stellaris (Bittern) Mr. Parrinton
Pavo cristatus (Peacock) stuffed Wm. Hyder, esq.
Mergus castor (Dundiver) and 4 other
specimens Wm. Tomson, esq.
Tringa vanellus (Lapwing) and 2 other
specimens Mr. J. Crux
Numidia Meleagris (Pintadoor Guinea
Fowl) Mr. E. Holtum
Colymbus rubicollis (red-necked Grebe) Mr. R. Keeler
Picus major (greater-spotted Wood-
pecker) Mr. R. H. Smith
Larus rudibundus (black-headed Gull)
stuffed S. Kingsford, esq.
Ardea stellaris (Bittern) stuffed — Storey, esq.
Picus minor (lesser-spotted Woodpecker) Mr. P. Andrews
Corvus frugilegus (Rook) var. Mr. G. Austen
Hirundo apus (Swift) and 2 other spec. Mr. Ald. H. Cooper
Colymbus Troile (Foolish Guillemot) ... Mr. Leplastrier, jun.
Platalea Leucorodia (Spoonbill) — Falco
nisus (Sparrow Hawk) stuffed ... A Gentleman.
Tetrao Tetrix (Black Grouse) female—
stuffed A Gentleman.

Reptiles.

- Skin of Boa Constrictor ... Wm. Delmar, esq.
Thirteen specimens—Snakes, &c. ... Mr. W. H. Weekes
Four Snakes J. Williamson, esq.
Small Turtle (*Testudo palustris*) E. S. Curling, esq.
Very large Tortoise Shell ... Mr. J. Jacobs
Testudo geometrica, and 3 others .. Mr. Wm. White

Lacerta superciliosa, Lacerta umbra, and

1 other specimen	....	....	Mr. E. F. S. Reader
1 Lizard and Testudo meleagris	....	....	Dr. Carter
Large Serpent's skin	....	....	Miss Flint
Iguana Lacerta (Guana) and skin of	Boa	Mr. S. Hacker	
Gecko Lizard and spectacled Snake	....	A Lady	
1 Snake	....	....	Mrs. Marten
Lacerta Palustris (Warted Newt)	....	Mr. W. Brent	

Fishes.

Exocætus volitans (Flying Fish)	....	Mr. G. Hayward
Ditto	....	Miss Masters
Syngnathus acus (Pipe fish) 2 spec.	....	S. Kingsford, esq.
Syngnathus Hippocampus, 2 spec.	....	A Lady
Ostracion quadricornis	....	Mr. Budden
Ostracion turrilus	....	Mr. G. Wood

Insects.

800 specimens of Brazilian Insects*	....	General Miller
7 Specimens	....	J. Williamson, esq.
Sphinx atropos (Death's head Moth)	....	Mr. T. Bing
100 Specimens, Brazilian	..	Mrs. G. Wood
1000 Specimens, British	... ..	Mr. G. Newport
37 Specimens ditto	....	Mr. W. Masters
40 Specimens, Foreign	..	Mr. E. F. S. Reader
4 Specimens	....	Mr. W. H. Weekes
3 Specimens, British	..	Mr. Leplastrier
Sphinx atropos	....	Mr. Marten
84 Specimens, British	....	J. Healds, esq.
7 Specimens	....	Dr. Carter
3 Specimens	.....	Mr. Ellerbeck
Sphinx atropos	..	Lieut. Jull, R.N.
24 Specimens, British	..	R. Tomson, esq.
Sphinx stellatarum (Humming-bird Moth)		Mr. Nisbett
Lytta viridis (Spanish fly)	....	Mr. H. Christian
Phalæna vinula (Puss moth) 2 spec.	....	Mr. T. Hayward
Sphinx ligustri (Privet Moth)	..	Miss Farren
9 Specimens, British	....	Miss Kenrick
Lucanus cervus (Stag Beetle) 2 spec.	..	Mr. Ald. R. Frennd
Gryllus gryllotalpa (Mole Cricket)	....	Mr. Lee
Sphinx Tilæ (Lime-tree Moth) 2 spec.	..	Mrs. Weekes
Sphinx ligustri (Privet Moth)	..	J. J. Pierce, esq.

* This Collection comprises the most splendid Species, and as a whole, is not only superior to those exhibited in most Provincial Museums, but is not excelled by those in London and Paris,

Scolopendra morsitans (American Centipede)	....	..	....	Rev. A. Power
Cancer pagurus, very large	..		....	Rev. G. P. Marshall
2 Centipedes	....		....	Mr. C. Pitt
Various Centipedes and Scorpions	....		....	Mr. Curling Tryon
3 Specimens (Cancer)	....		....	Mr. E. F. S. Reader
Cancer astacus	....		....	S. Kingsford, esq.

Shells.

200 Specimens, Foreign	..		....	Mrs W. Masters
15 ditto ditto	..		....	Mr. J. Pout
1 ditto	....	..	....	Mr. G. Newport
1 ditto ditto	..		....	Mr. Ald R. Friend
4 ditto	....	....	....	Mr. Greenstreet
10 ditto ditto	....		....	Misses Barlow
24 ditto ditto	....		....	Mr. G. Barnett
Various British specimens	....		...	Mr. W. H. Weekes
46 Specimens	....		....	Mr. W. Masters
1 ditto Foreign	..		....	Mr. F. Pout
7 ditto ditto			....	Mr. J. Friend
Small collection of Foreign Specimens	...		....	Mr. G. Hayward
100 British Specimens, Portsmouth	....		....	Wm. Fricker, esq.
12 Specimens Foreign	..		....	Mr. G. Stone
2 ditto ditto	....		....	Mrs. Allen
1 ditto ditto	....		....	Mr. W. Philpot
3 ditto ditto	....		....	Miss Chalk
2 ditto ditto	....		....	Miss Smith
14 ditto ditto	....		....	Mrs. Wickes
10 ditto ditto	....		....	Miss Adams
2 ditto Oyster Brood	..		....	Mr. C. Weekes
6 ditto ditto	....		....	Mr. Marlborough
1 ditto Foreign	....		....	Mr. C. C. Cottrell
Argonauta Argo (Paper Nautilus)			....	Dr. Carter
Series of British Shells	...		....	H. Boys, esq.
10 Specimens Foreign	....		....	Capt. Boteler, R.N.
3 ditto	....	....	....	Mr. Ald. Cowtan
1 ditto ditto	....		....	Mr. Chatwin
2 ditto	....	....	....	Mr. Trimnell
2 ditto	....	....	....	R. Tomson, esq.
50 ditto Foreign	....		....	Sir John Tilden
2 ditto	....	....	....	Rev. G. R. Leathes
1 ditto	....	....	....	Mr. Nisbett
8 ditto	....	....	....	A Lady
6 ditto	....	....	....	A Lady
Various British Specimens	..		....	Mr. Barnard

Various Specimens of Asterias (Star-fish) Mr. W. H. Weekes

Zoophytes.

Various Specimens of <i>Gorgonia flabellum</i>	E. S. Curling, esq.
Specimen of ditto	.... J. Williamson, esq.
Specimen of Coral	.... Mr. Ashdowne
Ditto	.... Mr. F. Pout
3 Specimens of <i>Gorgonia</i>	.... Mr. G. Stone
Specimen of Sponge	.... Mr. Nisbett
Small specimens of Coral	.... Mr. Barnard

Comparative Anatomy.

Skeletons of Monkey, Cat, Mole, Mouse, Toad, Buzzard, and Oyster Catcher.	Ethmoid and turbinated bone of Hound. Injections—Leg of Horse, Heart of Hound, Lungs of Frog. Stomachs of carnivorous, piscivorous, and granivorous birds; Heart of Heron; two sparrows dissected	.... Mr. F. Giraud.
Bony covering of Armadillo—Vertebra of	Whale—Head of Porpoise	.... J. Williamson, esq.
Head of Egyptian Sheep & head of Cod-fish	Bones of Elephant's head	.... E. S. Curling, esq.
Foot of Rhinoceros	Horn of Rhinoceros	.... Mr. C. C. Cottrell
Horn of Antelope	Pair of Buffalo's Horns	.... J. Parnell, esq.
Scull of Rabbit with teeth peculiarly elongated		.... Mr. H. Snelling
Knee cap of Elephant & Rostrum of Saw-fish		.... H. Boys, esq.
Tooth of Hippopotamus	Feet of S. American Eagle, and Head and Foot of Cock of the Wood	.... Capt. Tucker, R.N.
Foot of Albatross	Head & Foot of Albatross, and 2 Teeth of	.... Mr. W. Smith
Sperm Whale.	Upper portion of Head of Albatross	.... G. C. Oxenden, esq.
Jaws of Shark	Rostrum of Saw-fish	.... Mr. G. Stone
Tooth of Sperm Whale		.... Mr. T. Ridout
		.... Mr. Sayer
		.... Mr. J. Cramp
		.... Mr. Curling Tryon
		.... Capt. Boteler, R.N.

Vegetables.

An arranged collection of dried British & Foreign Plants, about 800 spec.	.... Mr. W. Masters
Collection of Plants from Arctic Regions, and specimen of Lace Bark	.... Mr. Ross

26 Vegetable Skeletons ..	.....R. Tomson, esq.
Ivy Leaf dissected ..	.....J. Williamson, esq.
Leaf of the Palm ..	.....Mr. S. W. Fedarb
Singular specimen of Filbert ..	.....— Ogilvie, esq.

Fossils.

4 Specimens, and Rib-bone of Mammoth (Herne Bay) .....	.....Mr. G. Wood
1 Fossil-shell ..	.....Mr. G. Sharp
1 ditto .. ..	.....Mr. Jarvis
3 Specimens .....	.....Mr. J. Clarke
1 ditto .. ..	.....Mr. J. Pout
2 ditto .. ..	.....Mr. G. Newport
3 ditto .. ..	.....Mr. Greenstreet
Plagiostoma spinosa in a nodule of Flint..	G. Jennings, esq.
4 Specimens ..	.....Mr. W. Wickes
Fossil Fish, and spec. from Syracuse ..	.....Mrs. C. Williams
1 Specimen ..	.....Mr. W. Goldsmith
1 ditto .. ..	.....Mr. G. Masters
12 ditto .. ..	.....Mr. W. Masters
7 ditto .. ..	.....Mr. Huntley
Mass of Fossil Shells ..	.....W. Collard, esq.
Fossil Bone in chalk ..	.....P. Elsted, esq.
12 Vegetable Fossils ..	.....Mr. E. F. S. Reader
3 Fossil Teeth, 1 Cocoa Nut, 1 Echinus..	.....Mr. W. H. Weekes
1 Fossil Shell ..	.....Mr. Lee
Ammonites gigantea ..	.....Mr. J. Crow
47 Specimens ..	.....Mr. Ashdowne, sen.
Large collection of Fossils from Boughton Hill, &c. ...	.....Mr. H. Wrighte
Collection of small Fossil Shells .....	.....Dr. Carter
Various specimens of Kentish Fossils ..	.....W. Bland, jun. esq.
2 Specimens of Fossil Wood .....	.....Mr. W. Beer
1 Cornu Ammonis and 1 Echinus .....	.....J. Williamson, esq.
Large specimen of Madrepore ..	.....Mr. Ald. R. Friend
3 Fossil Bones, South America .....	.....General Miller
4 Specimens .. ..	.....Lieut. Archer
12 ditto .. ..	.....Mr. B. Andrews
Fossil Crab ..	.....Mr. W. Smith
Mass of Bivalve Shells, and specimen of Fossil Wood ..	.....Mr. Gillaspie
3 Specimens of Madrepore .....	.....J. Parnell, esq.
1 Ditto, and 5 Fossil Shells .....	.....Mr. J. Woodruff
3 Specimens ..	.....Mr. Bilbe
1 Ditto .. ..	.....Mr. Bourn

Fossil Head and Horns of Elk* (Cervus		
giganteus) Ireland	..	....Jas. Dombrain, esq.
3 Fossil Shells	....	....S. Kingsford, esq.
2 ditto	....	....Mr. Robert Sankey
1 Echinus	....	....S. Mourilyan, esq.
3 Fossil Bones, and 2 Elephants Teeth,		
Herne Bay	....	....Mr. Sayer
9 Specimens	....	....R. Tomson, esq.
3 ditto	.. ..	....Capt. W. Deane
Fossil Wood with Auger Worms	....	....Mr. W. Philpot, jun.
2 Specimens of ditto	..	....Mr. Barnett
1 Fossil	.. ..	....Mr. A. Allen, jun.
50 Specimens of Echini, Ostreae, &c.	..	....Mr. Hills
Fossil Vertebra	..	....Mr. Royce
Specimen of Fossil Wood	..	....Mr. H. Crux
Fossil chambered Nautilus and others	..	....Sir John Tilden
4 Fossil Bones & 2 Heads, Herne Bay	..	....Mr. J. Homersham, jun.
6 Vegetable Fossils	..	....Mr. W. Shrubsole
2 Specimens of Nautili in Shale	....	....Mr. Lilley
Collection of Suffolk Crag Fossils, & fossil		
Strombus (pes pelecani)	..	.. .Rev. G. R. Leathes
Large mass of fossil Oysters	....	....Rev. D. Brammall
34 Specimens of Sussex Fossils	....	....Gid. Mantell, esq.
3 Specimens	.. ..	....Mrs. Clifford
2 Ditto	.. ..	....S. Tucker, esq.
Fossil Palm-leaf on lime-stone, & various		
Fossils	....	....J. Braddick, esq.
2 Specimens	....	....Mr. Ashdowne
10 Fossil Shells	....	....A Lady

Minerals.

3 Specimens	Miss Coleman	1 Specimen	Mr. J. Cramp
62 ditto	Mr. W. Masters	1 ditto	Mr. St. Kingsford
2 ditto	Mr. G. Wood	4 ditto	Mr. H. Lepine
1 ditto	Mr. J. Jacobs	1 ditto	Mr. Claris
5 ditto	Mr. Marseille	1 ditto	Mr. W. Philpot
215 ditto	Mr. Ald. Browne	22 ditto	Miss Chalk
3 ditto	Mr. J. Pout	1 ditto	P. Elsted, esq.
8 ditto	Mr. Greenstreet	2 ditto	Mr. E. F. S. Reader
1 ditto	G. Jennings, esq.	1 ditto	Mr. W. H. Weekes
1 ditto	Mr. Ross	1 ditto	Jas. Dombrain, esq.
2 ditto	Mr. Wilkinson	1 ditto	Mr. J. Friend
1 ditto	Mr. J. Weeks	3 ditto	Miss Adams
2 ditto	Mr. C. Culmer	3 ditto	Mr. C. C. Cottrell

* This splendid Specimen is of the extinct Species so frequently found in Ireland under the Peat, and incumbent on the plastic clay.

3 Specimens	Mr. Campbell	14 Specimens	Dr. Cordeaux
62 ditto	Mr. Ald. Snoulten	4 ditto	Mr. H. Wright
1 ditto	Mr. F. Brent	2 ditto	Mr. A. Allen, jun.
7 ditto	J. Parnell, esq.	6 ditto	Mrs. Liptrap
1 ditto	S. Kingsford, esq.	1 ditto	Rev. D. Brammall
4 ditto	Mr. J. Woodruff	3 ditto	Mrs. Clifford
1 ditto	Mr. J. White	31 ditto	S. Tucker, esq.
1 ditto	T. L. Burch, esq.	4 ditto	A Lady
6 ditto	Mr. W. Brent		

Specimen of Statuary Marble dug up in

Nelson Island	....	... Mrs. C. Willyams
86 Specimens of Lavas, &c.	....	Dr. Carter
50 Specimens of Italian & Spanish Marbles		Mr. C. Weekes
100 Spec. South America, including some		
of Gold and Silver from Potosi	....	General Miller
Various Geological specimens	....	Capt. Boteler, R.N.
120 Specimens Norway	..	Lord Clifton, M.P.
3 ditto, Railway Tunnel	....	Mr. Fordham.

Antiquities.

Piece of wall from Temple of Pompeii—

Wheat from ditto	..	.. Mr. W. Masters
1 Antique (Priapus)	..	.. Mr. G. Wood
1 ditto	..	.. Mr. H. Smith
1 ditto and 1 ancient Key		.. Mr. T. Davey
Antique Boot and pair of Spurs	..	.. Mr. Ald. R. Frencl
Cast of ornamented Roman Tile found		
near Gravesend	....	.. Mr. R. P. Cruden
Ancient Key from ruins of Ethelbert's		
Tower	....	.. Mr. C. Marshall
Six Egyptian Antiquities,—Wheat and		
Shells from Pompeii	....	.. Mrs. C. Willyams
Roman Urn	....	.. Mr. Back
Chartham Hatch		
Ancient Curfew Bell	....	.. Mr. A. Charles
3 Roman Buckles	....	.. Mr. Sturgess
3 Spec. of Roman Pottery	..	Lees Court Lord Sondes
2 Roman Termini, 2 Tiles, Flue of Bath,		
&c.	....	Richborough W. H. Rolfe, esq.
Spec. of Roman Pottery, antique Helmet		
and Celt	....	Hartlip W. Bland, jun. esq.
3 ancient Tiles	.....	..... Miss Adams
Antique Seal	....	..... Mr. G. Jager
5 spec. of Roman Pottery	..	Belmont Hon. Miss M. Harris
Pair of antique Candle-snuffers	.....	Rev. Wm. Bennett
Roman Brooch	....	Crundale Mr. G. Noyes
15 Spec. Celts, &c.	..	St. Alban's Court W.O. Hammond, esq.

2 specimens of Roman Pottery.. Boughton

Mount .....	.....J. Braddick, esq.
Antique English Dish ....	....Mr. Beauvois
Ancient English Cannon ....	....J. Giraud, esq.
Antique Statue of a Warrior...Reculver..	Mr. Lavender

Coins, &c.

236 Greek and Roman Copper, 11 Eng-

lish Silver .....	....Mr. G. Wood
2 English silver, 1 Roman ....	....Mr. W. Masters
9 Silver .....	....Mr. S. Phillips
10 Coins .....	....Mr. T. Davey
10 Silver, 11 Copper ....	....Mr. J. Pout
1 Silver .....	....Mr. G. Newport
1 Roman silver, 1 English silver..	....Mr. J. Knowler
106 Coins .....	....Mr G. Masters
1 English silver .....	....Mr. J. Cramp
1 ditto .....	....Mr. Ashdowne
2 Roman copper .....	....Mr. Nisbett
1 English silver .....	....Mr. J. Friend
22 Coins .....	....Mr. W. Lepine
3 Roman, 2 English .....	....Mrs. Campbell
1 Coin .....	....Mr. Royce
4 Roman, 4 English .....	....Mrs. Hobday
Various Coins, including the current Far-	
thing of Queen Anne .....	....Mr. Ross
21 Roman, 1 Greek, 3 English .....	....Mr. Sturgess
7 Roman, 1 Saxon, 1 English silver .....	....Mr. W. H. Weekes
3 Roman, 6 English ..	....Mr. Newton
1 Ditto .....	....Mr. T. Dorman
1 Ditto, 1 Medal .....	....Mr. J. Jacobs
1 Roman silver .....	....Mr. F. Pout
1 English silver ..	....Mr. W. Beer
12 Coins .....	....Mr. J. Homersham
12 Roman, 1 Greek, 15 English .....	....Mr. W. Brent
2 Indian gold, 2 ditto silver .....	....Capt. Bell (89th)
1 English silver ..	....Mr. A. Henry
1 Ditto ..	....Mr. H. Lepine
3 Coins, 2 Medals ..	....Mr. Barnard
3 Roman Coins ..	....Mr. Nettle
Various Provincial Coins .....	....Mr. H. Wrighte
5 Roman .....	....Mr. Ald. Homersham
4 Italian silver, 1 Sardinian Dollar .....	....Mr. Ald. Snoulten
6 English silver ..	....Mr. Ald. R. Friend
13 Gold and 5 copper Indian Coins ..	W. & C. Taswell, esqrs.
6 Silver & 2 copper S. American Coins ..	General Miller

5 English silver	....	....Mr. C. Weekes
1 Ditto	.... ..	....Mr. Gambier, jun.
3 Ditto	....	....Mr. B. Flint
2 Ditto	.. ..	....Rev. G. P. Marsh
4 Coins	....	....Mr. H. Keen
4 English silver	....	....Mr. G. Buckley
31 English copper, 2 tin Money, William and Mary	.. ..	....Mr. Hills
1 Roman Copper	....	....Mr. T. Hayward
2 French copper (Henri IV.)	....	....Mr. H. Brent
7 Roman silver, 1 English silver	....	....Mr. R. Gardner

Illustrations

Of the Manners and Customs of different Nations.

Malay Kreis	....	....Mr. G. Wood
Robe from New Zealand	..	....Misses Barlow
Chinese Razor	....	....Mr. G. Barnett
3 Otaheitan Fish-hooks	..	....Miss Chalk
3 War clubs, Bow and 2 Arrows, 2 musical Instruments	....	....J. Williamson, esq.
3 Weapons from Otaheite	....	....Mr. J. Charles
1 Paddle & 1 Arrow from S. Sea Islands, and Chinese Razor	....	.....Mr. S. W. Fedarb
Chinese Umbrella, Chinese Manuscript		Mr. W. H. Weekes
Various specimens of War Spears, Fishing Spears and Gear, War Clubs, Quiver & Arrows, Bow-shaft, &c.	.....	E. S. Curling, esq.
Chinese Lady's Shoe with porcelain model of Foot	.....	....Mr. W. Philpot
Chinese Tinder-box, Razor, Knight at Chess, carved Stick, engraved Cocoa Nut, Lace, Cloth, Braiding, &c.	.....	Mr. H. Wrighte
6 Weapons, 2 Charms, & 1 Armlet, from Ashantee	.....	.....Mr. C. C. Cottrell
Indian Pipe	.....	....Mr. W. Brent
East-Indian Sword	.....	....Mr. Ald. R. Friend
23 specimens of Weapons, Utensils, wearing Apparel, Cloth, &c. from Fernando Po and Sierra Leone	...	....Capt. Boteler, R.N.
War Club, Pouch and Slipper, and 30 spec. of cloth from Otaheite	.....	....J. Parnell, esq.
Indian Cross-bow	...	...W. & C. Taswell, esqrs.
Chinese Compass, and Indian Kreis	.....	Captain Hart
Malay Kreis	.....	.....Miss Rutton

2 specimens of cloth...	S. Sea Islands	...	S. Mourilyan, esq.
Pair of Indian Gloves	....	....	Mr. J. Budden
Large Burmese carved Idol	....	....	John Friday, esq.
3 silver Burmese Idols	....	....	W. H. Walker, esq.
3 spec. of Cloth from Madagascar	....	....	Mr. Mercér
Small French Sword	....	....	Mr. J. Pout
Silver Burmese Idol	....	....	Col. O'Donoghue
Burmese Straw Hat	....	....	Mr. H. Crux
Pair of Persian Socks	..	....	Mrs. Clifford
Match Lock and 20 specimens of Weapons,			
Baskets, Cap, Socks, &c. from Persia,			
Fernando Po, &c.	..	....	Capt. W. Tucker, R.N.
Implement for lighting Cigars, from Chili			S. Tucker, esq.
Persian Spear	....	....	T. S. Baker, esq.
Bridle from Buenos Ayres	..	....	J. Friend, esq.

Miscellaneous.

Five Cameos and Specimens of Pietra			
dura and Florentine mosaic	....	....	Mr. Ald. Snoultten
Small brass Figure from the ruins of the			
Bastile	....	....	Mr. Ald. Pout
200 plaster casts of Medals, &c.	....	....	Mr. Ald. H. Cooper
Small Indian figure of Rice	....	....	Misses Barlow
Hairs from the head of Napoleon Buona-			
parte	..	....	Mr. Wm. Masters
Two Cameos	....	....	Mr. J. Pout
Plaster cast of Biddenden Maids	....	....	Mr. G. Newport
Set of geometrical Solids, illustrative of			
Crystallography	....	....	Mr. Wm. Masters
One Medallion	..	....	Mr. Sturgess
Carved Orange	....	....	Mr. C. Tryon
Ancient English Cup, 2 Autographs, &c.	....	....	Mr. H. Wrighte
Ancient Money-box, and Ostrich Egg	....	....	Mr. Ald. R. Frend
Ball of Indian Rubber in its natural state	....	....	Captain Hart
Model of an Iron Railway	..	....	Mr. G. S. Robinson
Pair of ancient Shoes	..	....	A Lady
Ancient wooden Bowl	..	....	Mrs. Harnett
Calculus from intestines of a Horse	....	....	Capt. Deane
Ancient piece of Carving from Arden's			
House, Faversham	..	....	Mr. W. Shrubsole
Skin of Monkey used as an article of dress	....	....	E. S. Curling, esq.
Calculus from intestines of a Horse	....	....	W. Hougham, esq.
Two ditto	....	....	Mr. Dudderidge
Two birds' nests and various eggs, & pair			
of ancient Shoes	....	....	Mr. W. H. Weekes
Chaffinch's nest and eggs	..	....	Mr. Nisbett

Nest of *Parus caudatus*, and three Tern's

Eggs	....	....G. C. Oxenden, esq.
Curiously formed Guinea-fowl's egg	....	Mr. A. Sayer
94 Birds Eggs	..	....Mr. W. Brent
Skin of Emu	..	....Mr. Emanuel
Very large Lobster's claw	....	... Mr. Campbell
Pair of elegantly engraved Shells	....	Mr. Parrinton
Statue representing Ulysses and his Dog,		
designed and executed by	....	....Mr. H. Weekes, (Sculptor, London.)

WM. MASTERS, *Curator.*

J. FRIEND, *Secretary.*

Trustees of the Building.

Mr. Ald. Richard Frend	Thomas Lever Burch, Esq.
Mr. Ald. John Cooper	Charles Delmar, Esq.
Mr. Ald. Jas. Sladden Browne	Mr. William Philpot
Mr. Ald. Mawer Cowtan	Mr. George Ash
Mr. Ald. William Homersham	Mr. John Thomas Linford
Mr. Ald. William Jones	Mr. William Beer
Mr. Ald. George Frend	Mr. George Wood
Mr. Ald. Henry Cooper	Mr. William Masters
Mr. Ald. Osborn Snoulten	Mr. Henry King Nisbett
John James Pierce, Esq.	Mr. Thomas Wilkinson.
John Williamson, Esq.	



Committee.

Mr. Ald. Snoulten	Mr. Thomas Read
John Williamson, Esq.	Mr. Capon Weekes
Mr. Jesse Parker	Mr. Robert Ashdowne
Mr. William Beer	Mr. John Friend
Mr. Thomas Hart	Mr. John Pout
Mr. William Masters	Mr. S. Phillips.



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Treasurer—Mr. ROBERT ASHDOWNE.

Librarian—Mr. JOHN POUT.

Guardian of the Apparatus—Mr. S. PHILLIPS.

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Officers of the Museum.

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Mr. F. Giraud	Mr. George Newport
Mr. E. F. S. Reader	Mr. Thomas Wilkinson
Mr. John Friend	

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Treasurer—Mr. ROBERT ASHDOWNE.

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 General Miller.
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 The Right Hon. the Earl of Guilford
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 Mr. William Beer.



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 Miss Masters
 Miss Christian
 Miss Read.

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Bateman, Stephen
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Beer, Thomas Millen
Beer, Charles
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Bellingham, John
Bilbe, John
Bland, William
Brammall, Rev. D.
Brent, William
Brice, Richard
Browne, Ald. Jas. Sladden
Budden, John
Bunbury, T. B.

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F.R.S.E.

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Cowtan, Charles
Cramp, George
Croft, Richard
Crux, Henry

Davey, Thomas
DeLasaux, Thomas Thorpe
Delmar, Charles
Delmar, William
Dorman, Thomas
Dudderidge, Henry

Ellerbeck, Joseph
Emanuel, Manley

Farris, Thomas
Fletcher, James

Fletcher, Richard
Fletcher, Edmund
Flint, Abraham
Flint, Benjamin
Flint, Frederick
Fordham, Elias Pym
Foreman, William
Frend, Ald. Richard
Frend, Ald. George
Frend, William
Friend, John
Friend, Thomas
Furley, Robert

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Gardner, William
Garrow, Sir William
Giraud, Frederick
Goodban, Charles
Grisdale, Joseph

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Hacker, George
Halford, Richard
Hart, Thomas
Homersham, James, jun.
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Huntley, William
Hurst, George

Jager, George
Jones, Ald. William
Jones, John Geere

Keen, Henry
Keen, William
Keen, Stephen
Keen, Albert
Keen, Cyrus
King, Samuel
Kingsford, Edward
Kingsford, Sampson
Kingsford, Henry
Knowler, William

Lamb, Richard

Lancefield, George
 Lee, Richard
 Linford, John Thomas

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 Marlin, Henry
 Marshall, Charles
 Marsh, Rev. G. P.
 Minter, John
 Moss, George
 Moses, John Norris

Neame, George
 Newport, William
 Newport, George
 Nisbett, Henry King

Oakley, John
 Oxenden, George Chichester

Packman, William
 Parker, Jesse
 Partridge, John
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 Philpot, William
 Philpot, Stephen
 Philpot, William, jun.
 Philpot, George
 Philpot, Stephen, jun.
 Philpot, Charles
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 Pout, John

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Quillinan, Edward

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 Sharpe, Wm. (*St. Georges*)
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 Smith, Henry, jun.
 Snoulten, Ald. Osborn
 Southee, Robert
 Southee, Edward
 Sturgess, Thomas
 Suttæ, William

Thompson, Edward P.
 Turmaine, Edward

Weeks, John
 Weekes, Capon
 Weekes, William Henry
 White, William
 Wildish, William Dilnot
 Wilkinson, Thomas
 Williamson, John
 Wood, George
 Wyver, John Flower

Young, George

Committee appointed for the ensuing Year.

Mr. Ald. Snoulten
 T. L. Burch, Esq.
 Mr. William Brent
 Mr. J. T. Linford
 Mr. William Masters
 Mr. Thomas Hart

Mr. Thomas Read
 Mr. Capon Weekes
 Mr. Robert Ashdowne
 Mr. John Friend
 Mr. S. Phillips
 Mr. John Pout.

ANNUAL REPORT
OF THE
CANTERBURY
PHILOSOPHICAL AND LITERARY
INSTITUTION,

Presented at the
Annual General Meeting.

23rd SEPTEMBER, 1828.

Recti cultus pectora roborant.

PATRONS.



The Right Worshipful the MAYOR of CANTERBURY,
(for the time being.)

The Right Honourable the EARL of DARNLEY.

The Right Honourable the EARL of GUILFORD.

The Right Honourable LORD SONDES.

The Right Honourable LORD CLIFTON, M. P.

Sir EDWARD KNATCHBULL, Bart., M. P.

The Right Honourable S. R. LUSHINGTON, M. P.

WILLIAM PHILIP HONYWOOD, Esq., M. P.

JOSEPH ROYLE, Esq.



Printed at the Herald Office, Canterbury.



ANNUAL REPORT

OF THE

CANTERBURY

PHILOSOPHICAL AND LITERARY

INSTITUTION

Presented at the

Annual General Meeting

held on the 1st of December, 1890.

At the close of the year 1890, the Institution had a total of 100 members.

Patrons.

—3000—

The Right Worshipful the Mayor of Canterbury.

(for the time being)

The Right Honorable the EARL OF DARBY.

The Right Honorable the EARL OF GUILFORD.

The Right Honorable LORD SOMERSET.

The Right Honorable LORD CLIFTON, M.P.

Mrs. EDWARD KENTON.

The Right Honorable the EARL OF MONTAGUE.

The Right Honorable the EARL OF MONTAGUE.

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The Right Honorable the EARL OF MONTAGUE.

REPORT OF THE COMMITTEE.



The Committee, in surrendering into the hands of the Members the trust committed to them, feel much pleasure in laying before the Society a Summary of the Lectures which have been delivered since the last Annual General Meeting,—an Account of the Treasurer's Receipts and Disbursements,—and of the Presentations to the Library.

The attendance of the Members and Visitors at the Lecture Room has equalled that of the preceding year, which affords a convincing proof that the exertions of the Lecturers are appreciated; yet the Committee can but regret that owing to the removal from Canterbury of some of the Lecturers, the wishes of others for a remission from their labours, and the comparatively small number of Members who have hitherto appeared at the Lecture Table, they were obliged, during the past quarter, to arrange for the delivery of Lectures every alternate, instead of every Tuesday evening, as had formerly been the case. This circumstance the Committee used every exertion to obviate, but without effect, and they appeal especially to the Junior Members to lend their assistance as Lecturers, and afford their aid in the objects which the Society has in view. Many excellent Lectures have been delivered by junior Members, (a circumstance which bespeaks the Society's utility in developing youthful talent,) and the

Committee earnestly desire to see a spirit of emulation, inciting them to appear at the Lecture Table, convinced that there are many who can do so with much credit to themselves, and advantage to the Institution.

The Abstract of the Treasurer's Accounts will shew the state of the Funds. The heavy expences attendant on the completion and fitting up of the Building, Museum, and Lecture Rooms, have during the past year still borne very heavily on the funds, but many sums have been required to liquidate debts which will not be again incurred. The most anxious care has been taken to moderate the current expences.

The valuable donations of sixty-five volumes of Ancient and Modern Universal History, from the Right Hon. S. R. Lushington, M P.,—of a splendid folio copy of Woolnorth's Canterbury Cathedral, by Mr. Kirkby—of the Mechanics' Magazine, by the Rev. Henry Lasey—and of several donations by many other Gentlemen, have contributed to encrease and improve the Library. But the Committee regret that the state of the funds has prevented their making that improvement in it, by the purchase of modern Works on Science and general Literature, which is imperiously called for. They also observe that the Society is not in possession of many standard Works which it is very desirable they should possess, and they appeal to the friends of the Institution to present any duplicate volumes they may have. A Collection of Engravings is also being formed, which it is desirable to increase.

The Committee beg to refer to the Report of the Directors and Curators, as to the state of the Museum.

It is highly gratifying to the Committee to be enabled to state, that the Right Hon. the Earl of Guilford has been pleased to patronise the Institution ; and that the Countess of Guilford has also been pleased to allow her name to be inserted as an annual subscriber ; since it is an infallible mark of the Institution having met with their approval ; and the honor which they have conferred can but be appreciated by its friends.

The Committee in conclusion beg to offer their congratulations on the present establishment of the Institution in public estimation. This has been evinced by the numerous attendance at the Lectures—of Visitors to the Museum—and by the addition of several subscribers of distinction. They also feel that the period of doubt and difficulty is passed—that the Institution has arrived at a degree of stability and usefulness equalling the anticipation of its friends ;—and that it requires but a continuance in the same course of undeviating attention, and unremitting exertion in its Members, fully to attain the objects of its formation, and render it not only a source of instruction, pleasure, and advantage to those who are within its immediate sphere, but also a credit to its Members, and the County generally.

SUMMARY

OF THE

LECTURES

Delivered since the last Annual General Meeting



1827—October 2 and 9.—Mr. T. B. Bunbury delivered Lectures on the Anatomy and Physiology of the Eye of the Horse, in which he demonstrated its developement as differing greatly from that of Man. and showed various preparations of the internal arrangement of the Chrystalline Humour, Pigmentum nigrum, tapetum lucidum, the retina, lens, and its capsule, the liquor morgagni, Iris, aqueous humour,—the cornea, conjunctiva and sclerotic coat, and finally treated of the Muscles of the Eye, the use of the lachrymal gland and haw.

October 16 and 23.—Mr. Bunbury delivered Lectures on the Anatomy and Physiology of the Foot of the Horse, in which he gave an anatomical description of that organ, explaining the peculiarities of its formation, and the natural functions of the different parts composing it, and showing preparations of the dead subject to demonstrate the circulation of blood, as performed in the foot, to supply its various secreting internal surfaces called glands, and in what manner the horn was deposited forming its exterior covering.

October 30.—Mr. W. H. Weekes delivered an experimental Lecture on Hydrogen and its combinations, embracing its phenomena in union with the metals, silver, platina, potassium, sulphur, &c. &c.

November 6.—Mr. Wm. Brent delivered the third of a Course of Lectures on Poetry. Pathetic, Descriptive, Lyric, and Dramatic Poetry, were separately treated of, and in each division were given many beautiful, pleasing, and illustrative extracts.

November 13.—Mr. W. Masters delivered a Lecture on the Geology of Kent. The County of Kent he observed was particularly interesting to the Geological Student, as no tract of country exhibited within so short a space, such magnificent sections of the recent Strata. The character and boundaries of the Alluvium, Diluvium, Craig, London Clay, Plastic Clay, Chalk, Green Sand, Weald Clay, and Iron Sand Formations, were severally described and elucidated by the superb Fossils and characteristic Minerals from the Museum.

November 20.—Mr. James Fletcher delivered a second Lecture on Mechanics. The centre of gravity and its properties, and the strength of animal bodies, were particularly treated of, and illustrated by many experiments, some of which were of a novel description.

November 27.—Mr. John Friend delivered the second of a Course of Lectures on Ornithology. After shortly describing the characteristic marks of the different Orders of Birds, Mr. F. proceeded to an examination of the structure, habits, and economy of the various Genera comprised in the 2d and 6th Orders of the Linnæan arrangement, *Picæ* and *Passeres*. The subject was illustrated by coloured drawings, and by beautiful preserved specimens from the Society's Museum.

December 4.—Mr. Read delivered the second Lecture of a Series on Architecture. Having in the first lecture described the Tuscan Order, in this he pointed out the proportions, beauties, and difficulties of the Doric. Large Drawings of the 5 Grecian Orders were exhibited at the close. In the course of the Lecture a model of a Trigon of Stonehenge was introduced; and a conjecture hazarded that defence, not worship, was the object of its erection.

December 11.—Mr. Martin delivered a Lecture, in continuation of a Series, on the Philosophy of the Mind, in which he treated of the second department of our Emotions, denominated Retrospective, as they relate to the past. These were shewn to be subdivided as they refer to others, and to ourselves;—Anger, gratitude, &c. were classed under the former—Regret, self-satisfaction, &c., under the latter subdivision.

December 18.—Mr. Masters delivered a Lecture on Lithography and Engraving. He described the chemical process by which Lithography is effected—the history of its introduction in this and other countries, and pronounced its chief excellence to consist in the impressions being identically the originals of the artist, and in the facility with which all artists could by its aid give numerous copies of their designs. The various modes of Engraving were then described and explained, beginning with the Engraved Gems of the Antients, and continuing to explain those on Wood, Copper, Steel, Glass, &c., of most of which characteristic illustrations were exhibited.

1828—January 8.—Mr. Ashdowne delivered a Lecture on Light, in which he took a brief view of the reflection, absorption, and transmission of light, then noticed its refraction, inflection, and mentioned the curious fact that the solar beam consists of rays which have three distinct effects—one producing light—another heat—and a third producing neither, but which effect the greatest chemical changes in the least time. A few remarks on the theory of colour concluded the Lecture.

January 15.—Mr. John Brent, jun. delivered a Lecture on the Origin of Fiction. The influence of the supernatural as connected with Poetry was briefly described, and the sources shewn whence were derived the legends contained in the tales of Chivalry, or recorded in the tradition of European nations. He then contrasted the similarity of the Legends, the Grecian, Arabian, and Celtic Fables, shewing the luxuriance of Eastern

Imagery darkened into creations of terror in the Mythology of Scandinavia. A few remarks were made on the different creations of the Imagination &c., and on the different influence of science and fiction on mankind.

January 22.—Mr. Wilkinson delivered the third of a Series of Lectures on the History of England. This Lecture was devoted to the consideration of the state of Jurisprudence, and to the deduction of the various revolutions of Learning in this and the several other Countries of Europe, in the Anglo-Saxon period of our History.

January 29.—Mr. W. H. Weekes delivered a Lecture on Phosphorus and its Combinations. After giving a brief history of the origin and discovery of Phosphorus, the subject was treated under four principal divisions. The characteristic properties of this singular substance—Phosphoric Light—application of Phosphorus to chemical research—and lastly, its combinations, and unions with other bodies. The readiness with which this preparation enters into rapid and intense combustion, under the action of various Agents, Electric, Galvanic,—from Chemical affinity, &c. &c. was extensively exemplified by a series of experiments, performed by simple apparatus. The analysis of Atmospheric Air by the agency of Phosphorus, excited to spontaneous combustion within a small portable instrument constructed for that purpose, was effected in a few seconds, and the production of Phosphoric Acid in a great variety of cases was clearly defined. In Mr. W.'s illustrations of Phosphoric Light, an original experiment exhibiting the rapidly increasing brilliancy of a preparation of Phosphorus under an exhausted receiver, and its instantaneous disappearance on the readmission of atmospheric air, was introduced. An examination of the remains of Phosphorus with Chlorine, by means of a portable Gasometer, calculated to evade the uncertainty and obscurity of the modes in general use, shewing the spontaneous ignition of this and other combustible bodies, concluded Mr. W.'s first of two Lectures on this subject.

February 5.—Mr. Phillips delivered a Lecture on Astronomy, in which he explained the figure and nearly spherical form of the Earth,—its diameter, diurnal and annual motions,—the causes of Day and Night,—the beautiful phenomena of the Changes of the Seasons,—the method by which the vast distance of the Heavenly Bodies is ascertained,—the Earth's attractive power,—her path in the ecliptic,—the opposition of Centripetal and Centrifugal forces,—Latitude and Longitude,—the equation of time,—the difference of mean and apparent time,—and illustrated the subject by Globes, Planetarium and Diagrams.

February 12.—Mr. Read delivered his Third Lecture on Architecture, in which he gave a full description of the Ionic Order, its variations from the Doric, the buildings and situations for which it is proper—the changes its capital has undergone amongst the moderns—with some general observations on the Corinthian and Composite Orders. A brief Essay on Beauty, abstractedly considered and as applied to Architecture, followed; and a description of the Ancient Aqueducts concluded the Lecture.

February 19.—Mr. W. Masters delivered a Lecture on the English Poets. In several preceding Lectures, Mr. M. had introduced the most eminent English Poets, from Gower and Chaucer to Milton, in a chronological series—giving extracts from their works,—with remarks on their styles and compositions, occasionally interspersed with anecdotes of their personal lives and histories. This Lecture was devoted to the consideration of that Rock of Milton's fame, *Paradise Lost*, from which many extracts were read, descriptive of the beauty and sublimity of the work. Several illustrative Engravings, from Martin, were exhibited.

February 26.—Mr. John Friend submitted his Third Lecture on Ornithology; the first portion of which was devoted to the consideration of the only remaining Order of Land Birds which had not been treated of, viz. the *Gallinæ*. After fully describing the marks of distinction of the Genera in the Order, and noticing whatever was remarkable in any of the species, he introduced in a similar manner his remarks on the intermediate Order between the Land and Water Birds—the *Grallæ*.

March 4.—Mr. James Fletcher delivered a Lecture on the Greek Poets. After a few remarks on the past and present state of Greece and her Poetry; he considered the origin, general nature and state of Poetry in different countries, and enumerated the causes which gave Grecian Poetry its character and its pre-eminence, and noticed in particular the connection between Greece and Egypt. The works of several of the ancient Poets were briefly noticed; the Grecian Mythology, and the striking coincidence between the Indian, Egyptian, and Greek Theologies, was considered. Mr. F. then took a review of the Poems of Homer, (confining himself chiefly to the *Iliad*) under three heads—the Characters and Speeches—Sentiment and Description—Language and Versification. Pope's translation was used, but where it differed too much from the original, verbal translations from the original were given.

March 11.—Mr. James Homersham, jun. delivered a Lecture on Mineralogy, embracing the external characters of Minerals, in which were particularly noticed their geometrical properties according to the theory of the Abbé Haüy, the very different effects of slow and quick crystallization, the formation of stalactitic concretion, &c.

March 18.—Mr. Martin delivered a Lecture on the Philosophy of the Human Mind. The third and last department of the Emotions was treated of in this Lecture. This order Mr. M. stated to comprehend the prospective emotions which include all desires and fears, the most important of which were considered in the following series:—Our desires of continued existence—of pleasure—of action—of society—of knowledge—of power—of the affections of those around us—of glory—of the happiness of others—of unhappiness to others.

March 25.—Mr. Wilkinson delivered his fourth Lecture on the History of England, in which he considered the state of the Arts, and the Commerce, Manners, and Customs of the Anglo-Saxons.

April 8.—Mr. Bunbury delivered a Lecture on Physiology. He took a general view of Animal Physiology, comparing the human with that of some other Animals; and concluded with an excellent summary of his subject.

April 15.—Mr. James Fletcher delivered a second Lecture on the Poets of ancient Greece; commencing with Homer's second great Poem, the *Odyssey*; the principal characters and design, its degree of excellence compared with his other works, and also the poetical character of the great Bard himself, were examined. Hesiod and the Poets of the school that succeeded him were then treated of, and illustrations given from their Poems, with criticisms upon them.

April 22.—Mr. W. H. Weekes delivered a second Lecture on the Combinations of Phosphorus. Mr. W. described a new and very simple method of making Phosphate of Lime, of importance to all practical chemists, and also the means of obtaining Phosphorated Hydrogen with facility through its agency. The various unions with Iodine were exemplified, and a novel effect, that of spontaneous combustion, produced by entirely covering the phosphorus with that substance.

April 29.—Mr. Phillips delivered a Lecture on Astronomy. He gave a description of the solar system, and explained the motion of that great luminary (the Sun) on its axis, and that by his meridian altitude the latitude and longitude of any place may be known. He next took a general view of the other Planets, and the starry heavens, and demonstrated the optic delusion of all the heavenly bodies appearing at equal distance—the changes of the Moon, her different appearances and phases, her influence on the waters causing the phenomena of the tides, and her distance from the earth, were clearly illustrated; the phenomena of the lunar and solar eclipses were next considered, as also the method of ascertaining the longitude by the constant eclipses which take place amongst the Moons or Satellites of Jupiter. Conclusion—a description of the twelve signs of the Zodiac.

May 6.—Mr. W. Brent delivered a first Lecture on the History of Music, in which he took a general review of the rise and progress of that Science, from the early Egyptian era to the present day, and treated on the various kinds of Music in different ages and countries, describing many ancient instruments. Mr. B. spoke with much energy on the character of our ancient English Music, and said that however the Italian school of Music might have sophisticated the taste of the present age, the beauty and excellence of our native music could never be disputed, whilst any remembrance of our Scottish Bards, of Carolan, or Llewellyn, existed, and that although the Harp of Tara hung silent on its walls, its chords must ever vibrate on the breast of every lover of melody.

May 13.—Mr. John Brent, jun. delivered a Lecture on Pneumatics. In the introduction was given the History of the rise of the science—its struggles through the mists of ignorance, and the persecution of its devotees. He stated Galileo to have been the first philosopher of modern times, to whom we are indebted for a great portion of our present knowledge, as he led the way to

the discoveries of Torricelli and the succeeding race of Pneumatic Experimentalists. A series of experiments were then entered into to prove the weight, pressure, expansion, &c. of Air.

May 20.—Mr. Martin delivered a Lecture on the Philosophy of the Human Mind. This Lecture contained a retrospect of the preceding Lectures on the same subject, interspersed with some remarks on consciousness and personal identity, and many moral reflections intended to convey sublime ideas of the Great Author of Nature.

May 27.—Mr. John Friend gave the concluding one of his Course of Lectures on Ornithology. The attention of the members was chiefly directed to the several Genera of Birds comprised in the Linnæan Order *Anseres*. The distinguishing marks of each Genus of the Order were remarked upon, and the peculiarities of many of the species pointed out. In conclusion, Mr. F. took a review of the whole course, recapitulating the principal features of his subject, and dwelling on the various habits and characteristics of the whole feathered race.

June 3.—Mr. Read delivered a Lecture on Architecture. The several kinds of Bridges were described, and the means stated by which Man has been enabled to wield the mechanic tool surrounded by the waters of the deep. The most eligible situation for their erection, and the means best adapted to prevent the accidents to which they are exposed, were pointed out. The principle of Arches were briefly investigated, and the application of cast iron to the formation of Bridges was illustrated by large plans of those first erected in England. Many modern Bridges were briefly described.

June 10.—Mr. Masters delivered a Lecture on the English Poets from Milton to Pope.—In this Lecture many justly celebrated names were introduced.—Butler afforded many extracts from his most original poem—Hudibras. Sir J. Suckling produced some very pleasing quotations.—Then followed Andrew Marvel, Clivecland, Carew, Davenant, Vaughan, Cowley, and Dryden, from whose almost neglected Plays some splendid poetic passages were delivered. The causes that gave rise to Comedy were expatiated on, and a comparison between Tragedy and Comedy entertained.

June 17.—Mr. W. H. Weekes delivered a Lecture on Carbon, in the gaseous and solid forms,—discoveries in science and invention in apparatus were furnished. The most important discoveries were, the result of a series of novel experiments on the gaseous and other products of numerous woods, by distillation, of which printed Synopses from the Lecturer's private press, were distributed; the presence of Chalcium in animal Charcoal, and the expansibility of wood *longitudinally* by heat. A newly invented Eudiometer was introduced, in which the imperfections of the apparatus of this kind now in use, are entirely remedied,—and results may be obtained to a mathematical correctness.

June 24.—Mr. W. Brent delivered a second Lecture on the History of Music.—He described the state and progress of the Art from the 14th Century, in the countries of Italy, Germany, England, France, and the Netherlands.—He spoke in terms of

commendation of Handel, Hayden, Mozart, &c. and enumerated the most esteemed musical composers and performers of the present day.

July 15.—Mr. Wilkinson read to the Society a Lecture on the nature and use of Language: the Lecture intended to be delivered being postponed.

July 29.—Mr. Wilkinson delivered the 5th of a series of Lectures on the History of England. The period was from William the 1st, to Henry the 3rd; and the subject the Constitution and Government, and the state of Jurisprudence and Learning. He took a view of the most important changes introduced at the conquest, and of the alterations subsequently made; in the course of which he noticed the changes made in the ranks of men in Society,—in their political and other circumstances,—in the tenures of their Estates,—and in their Magistrates, Courts, and Laws;—dwelling particularly on the feudal system of Police and Government, the constitutions of Clarendon, and that great Palladium of English Liberty, Magna Charta. Mr. W. concluded with a review of the State of Learning, and of the causes which led to its improvement.

August 12.—Mr. W. H. Weekes delivered a Lecture in continuation of a series on Carbonic Acid Gas. Prior to entering on his subject Mr. W. introduced an apparatus of simple construction, for an easy and economical mode of preparing the Chloride of Soda, which is coming into repute as a disinfectant—He commenced his enquiry into the nature of Carbonic Acid Gas, with the history of its discovery, its several forms of existence in a state of nature, and its combination with the substances constituting the crust of our globe. He then dwelt on the Analysis of Earthy Carbonates, introducing in illustration several specimens from the mineral cases of the Society's Museum, with some beautiful stalactitic formations. Some pleasing experimental illustrations followed of the synthetical production of Carbonic Acid Gas, from the combustion of Charcoal in Oxygen, its specific gravity, its characteristic property of extinguishing flame, with remarks on the fatality of its operation on animal life and the best means of restoring persons who had been subjected to its baneful effects. In conclusion a peculiar form of that singular preparation called Pyrophorus, was introduced, which exhibits a brilliant shower of spontaneous fire, when shaken from a tube into the Atmosphere, and increased splendour when precipitated into a Jar of Oxygen.

August 26.—Mr. James Fletcher delivered a Lecture on the Greek Poets and Dramatists. After a few general observations on Grecian Literature, Mr. F. in continuation of a previous Lecture on the Lyric Poets, examined the odes of the great Theban Bard, Pindar, and gave extracts from them in illustration of their style of thought and language, with remarks on their peculiar defects and excellencies. On passing to the Dramatists, the works of Æschylus, Sophocles and Euripides, among the Tragic, and Aristophanes among the Comic Authors, were examined in the same manner. The pastoral Poetry of Sicily formed the concluding part of the Lecture, and afforded many beautiful se-

lections from Theocritus, Bion, and Moschus, which were given from the original as well as from received translations.

September 9.—Mr. Read delivered a Lecture on Gothic Architecture which was shewn to be a Style of Building unknown to the Nations of Antiquity—its beginning in this country to be buried in obscurity—its changes classed in successive periods—its decline and revival by the present age, were severally noticed.—The Gothic Buildings of the Netherlands were described, and a brief Historic Sketch given of Canterbury Cathedral.

September 23.—Annual General Meeting when the Reports of the Committee and of the Directors and Curators &c. were read—the Treasurer's Accounts inspected—Officers appointed for the ensuing year—and the general business of the Institution transacted.

THOMAS WILKINSON,

Secretary.

Donations to the Library.

	Folio	Quarto	Octavo	Duodecimo	Pamphlets
The Right Honorable S. R. Lushington....			65		
Mr. George Kirkby	1				
G. Dyer, Esq.			3		
Dr. W. H. Carter		1	1		
Mr. Alderman Friend				1	
The Rev. Henry Lasey			1		
Mr. Philpot, Jun.		1			
Mr. J. Pout			2	1	
	1	2	72	2	

Engravings, &c.

Henry Wrighte, Esq., 4 Curious Maps, and 20 Engravings.

JOHN POUT,

Librarian.

Abstract of the Accounts of the Institution from September 1827 to September 1828.



<i>Dr.</i>	£.	s.	d.
To Balance in Treasurers hands on last Account	11	18	9
Members' Subscriptions	110	10	0
Ladies' ditto	4	4	0
Members' Life ditto	12	12	0
Ditto from the Right Honourable the Earl of Guilford	20	0	0
Visitors to the Lectures	6	17	0
Ditto to the Museum { Public days 48 1 0 } { Private do. 9 13 0 }	57	14	0
Sale of Museum Catalogues	3	18	0
Use of Lecture Room	2	10	6

£230 4 3

<i>Cr.</i>	£.	s.	d.
By Mr. Crow's Annuity	50	0	0
One Year's Interest on £1000	50	0	0
Mr. Newport, Exhibitor, one year's Salary	30	0	0
Ditto for extra days attendance	1	16	8
Ditto Gratuity voted at Annual Meeting, (1827)	5	0	0
Mr. Davey, Collector	5	10	6
Ditto for distributing Reports, Notices, &c.	1	10	6
Insurance from Fire	4	5	6
Poor Rates	1	13	9
Purchase of Books—Printing, Stationery, and Binding Books	20	1	4
Purchase of objects for the Museum	2	1	0
Preparations of Specimens for ditto	3	17	0
Purchase of Preservatives, Bottles, &c. for ditto	5	5	3
Repairs of the Building and for Fittings	5	4	6
Bilbe's Bill for Candles	5	10	2
Chemicals	0	1	10
Carriage of Parcels, Postage, and Incidental Expenses	6	11	9
In part for erecting Gates	10	0	0
Messrs. Jefferys and Morgan for Lease, &c.	10	14	6
Cash repaid in part of Money borrowed	10	0	0
Balance in the Treasurer's hands	1	0	9

£230 4 3

C. WEEKES, Treasurer.

REPORT

OF THE

DIRECTORS and CURATORS of the MUSEUM.

The Directors and Curators congratulate the Society on the improvements and augmentations that have been effected during the past Season in the Museum, every division of which has been increased in Specimens, and some of the arrangements have almost wholly been re-modelled.

The continued kindness of the Friends of the Institution has enabled the Curators to fill up many chasms in the several departments, which renders their utility the more apparent by shewing in a more connected form the many links of which the chain is composed.

In the department of Natural History, a small case has been appropriated to the class Mammalia, which it is hoped will form the nucleus for a more extended display.—Through the kindness of E. S. Curling, Esq., this case is enriched with a fine specimen of the Flying Opossum (*Didelphis volans*) from New South Wales, and judging from that Gentleman's zeal to serve the Institution, and from the many opportunities he possesses of obtaining foreign specimens—the Society may fairly presume on considerable additions through his extended liberality.

Although no new Cases for Birds have been found requisite, yet very many superb specimens now adorn the Cases that have been added since

the last Report;—among which may be particularized the Horned Turkey (*Meleagris Satyra*) and the Impeyan Pheasant, (*Phasianus Impejanus*) presented by Brian Hodgson, Esq., and which for rarity and splendor of colors are unrivalled. Sir John C. Honynwood, Bart., has also furnished amongst some others, a mule Bird between the domestic Fowl and the wild Pheasant, which for beauty and physiological interest, will yield to few. The Right Hon. S. R. Lushington, during his passage to India, shot near the Cape, an Albatross (*Diomedea fuliginosa*) and a Petrel, (*Procellaria Capensis*) both of which, that Gentleman with the interest he has ever evinced for the Museum, kindly sent home to enrich its Cases. To the Hon. Mrs. Lushington, also, the Society is indebted for a Ring-tail Eagle (*Falco fulvus*). Nor must the handsome presentation of J. Furley, jun. Esq., Hon. East India Company's Service, be omitted, consisting of 12 prepared specimens of Tropical birds. One of the Members of the Institution, (Edw. Thompson, Esq.) has materially assisted this department by his kindness in preparing and setting up several Birds in a style that would do credit to a professional Artist.

The illustrations to the classes treating of Reptiles and Fish, have been almost formed during the past season; the different orders and many of the genera of which, are now placed for the investigation of the Student. In this department the Society is mainly indebted to Major Neame, E. S. Curling, Esq., and Mr. Wm. Brent.

The previously splendid collection of Foreign Insects, has received some valuable additions through the kindness of W. H. Walker, Esq., Hon. East India Company's Service. Nor has

the British Series been neglected—many better specimens have been substituted during the past season, for those originally exhibited, and some curious illustrations of the metamorphoses and habits of the Insect tribe, have been added.

It is much to be regretted that the friends of the Institution have not contributed more largely to the Conchological department (which owes its arrangement to the active services of Mrs. W. Masters) and which is still very deficient in Foreign specimens. It is trusted that the knowledge of this deficiency will be an inducement for those friends of the Museum who have Correspondents abroad, to request their aid towards its completion, as no subjects in Natural History are better calculated for display, and none more easily transferred and preserved. During the past season, the Society is chiefly indebted to Major Neame, for a collection from the Cape, amongst which are some splendid species of *Patella*; to Mr. C. Weekes, for a very rare shell, the *Helix otis*; and to the Rev. G. R. Leathes, for some rare fresh water species from North America.

It would be particularly desirable to increase the number of Zoophytes—they are at all times objects of high interest, and are well adapted for preservation. John Furley, Jun. Esq. has obligingly supplied seven of the finest specimens now exhibited, which he collected at the Straits of Malacca.

Extensive collections of Fossils and Minerals existed, and were displayed previous to the past season;—these have severally been augmented since the last report, and chiefly through the kindness of Sir J. M. Tylden, the Rev. R. Price, and W. Bland, Junior, Esq., who have supplied Kentish Fossils; and of J. B. Gunnell, Esq.,

B. Hodgson, Esq., Dr. Hutchesson, and the Rev. G. R. Leathes, who have presented English and Foreign specimens. With these materials, the Curator has been enabled to commence an instructive series of Geological Specimens, in which the order of succession of the several Strata, as well as the peculiar Fossils entombed within them, will be displayed. This at present shews little more than the skeleton of such an arrangement—but successive years it is hoped will enable him to fill up the deficiencies. A tribute of gratitude is due from the Society to James Dombrain, Esq. for his presentation of specimens of the magnificent Crystals from the Giant's Causeway and Staffa's Cave.

In addition to the elegant specimens of Comparative Anatomy, prepared and presented by F. Giraud, Esq. the Society is indebted to the liberality of Captain Boteler, R. N. for a magnificent specimen of the Head of the Hippopotamus.

To that part of the Museum entitled Illustrations of the Customs and Manners of various Nations, many very interesting additions have been made, (the most valuable of which is a suit of Mahratta Chain Armour, presented by W. Delmar, Esq.) and the whole put into complete arrangement.

Although the number of presentations of Antiquities has been small, yet there have been two that deserve particular attention, namely, the beautiful and highly curious glass Lachrymatory, of Roman manufacture, presented by Mr. Isaac Sladden; and the Antiquities found at Smeeth, by Edward Hughes, Esq.; the latter are peculiar as shewing the minute ornaments that the higher order of Romans wore, and that were, agreeably to the usages of the times, interred with them.

Some valuable additions to the Museum have been also received from the Rev. G. R. Leathes, E. Thompson, Esq. and the Portsmouth Museum, in exchange for some of the Society's duplicate specimens.

It is gratifying to remark, that neither the public nor the individual interest of those concerned in the management of the Museum have failed, as is most fully shewn by the number of Visitors to the Establishment, as well as by the continued efforts of the Curators in their several departments; and as long as this happy union exists, increased beneficial results, both to the Society and the Public, must of necessity follow.

List of Donations to the Museum.

QUADRUPEDS.

Donors.

Didelphis volans (Flying Opossum)—*Felis*
Bengalensis (Tiger Cat.)
Canis Vulpes (Fox) stuffed
Felis Catis (Common Cat)—*Mus Decumanus*
 (Common Rat)—curiously preserved
Mustela vulgaris (Common Weasel)
Talpa Asiatica (Siberian Mole)—stuffed
Talpa Europæa (Common Mole)

E. S. Curling, Esq.
 Sir J. C. Honeywood, bart.

Mr. Moss
 Mr. Nisbett
 Major Neame
 Mr. W. Brent

BIRDS.

Platalea Leucorodia (Spoonbill)—*Falco nisus*
 (Sparrow Hawk)—stuffed
Phasianus Impejanus (Impeyan Pheasant)
 —*Meleagris Satyra* (Horned Turkey)
Phasianus colchicus (Pheasant)—white va-
 riety—two specimens, male and female
Anas marila (Scaup Duck)—female—*Anas*
ferina (Redheaded Wigeon)—female
Ardea Stellaris (Bittern)
Anas albifrons (Whitefronted Goose)—
 stuffed

Edward Toker Esq.

B. Hodgson, Esq.

Hon. John Bligh

Mr. J. Wood
 Mr. R. Amos

W. Collard, Esq.
 J. Hyde, Esq.

Scolopax rusticola (Woodcock)
 Collection of preserved Birds skins from New
 South Wales, &c. comprising specimens
 of *Psittacus hæmatotus* (Redbreasted
 Parrot)—*Psittacus gloriosus* (Splendid
 Parrot)—*Psittacus concinnus* (Crimson-
 fronted Parakeet)—*Merops carunculatus*
 (New Holland Bee Eater)—*Alcedo Sinyr-
 nensis* (Smyrna Kingfisher)—*Certhia*
venusta (Leona Creeper) *Muscicapa Para-
 disi* (Paradise Flycatcher)—*Muscicapa*
grisea (Grey-necked Flycatcher), &c.
Picus viridis (Green Woodpecker)

E. S. Curling, Esq.
 Mr. R. H. Smithe
 Mr. F. Brent

Emberiza citrinella (Yellow Bunting), stuffed
 Mule bird, bred between the Pheasant and
 the domestic Fowl—*Falco peregrinus*
 (Peregrine Falcon)—young bird—*Phasi-
 anus colchicus* (Pheasant)—pied variety
 —stuffed

Sir J. C. Honeywood, Bart.

Mr. M'Kenna
 Captain Gunnell
 Mr. R. Freeman
 Hon. Mrs. Lushington

Motacilla regulus (Golden crested Wren)
Emberiza nivalis (Snow Bunting)—stuffed
Turdus torquatus (Ring Ouzel)
Falco fulvus (Ringtail Eagle)—stuffed
Lanius collurio (Red backed Shrike)—*Mo-
 tacilla alba* (White Wagtail)

Mr. Ald. H. Cooper

12 stuffed Foreign Birds, comprising speci-
 mens of *Psittacus ornatus* (Orange-billed
 Parrot)—*Psittacus sulphureus* (White
 Cockatoo)—*Psittacus Erythrocephalus*
 (Blossom-headed Parakeet)—*Psittacus*
Lory (Black-capped Lory)—*Gracula reli-
 giosa* (Minor Grackle)—*Turdus sinensis*
 (Chinese Thrush), *Loxia Oryzivora* (Java
 Grosbeak) *Loxia Maja* (White-headed
 Grosbeak)—*Loxia Astrild* (Waxed-bill
 Grosbeak)

J. Furley, Jun. Esq.

- Diomedea fuliginosa* (Sooty Albatross)—*Procellaria capensis* (Pintado Petrel)—stuffed
Ardea Nova Hollandiae (White-fronted Heron)—stuffed
Psittacus Tabuensis (Tabuan Parrot)—and another Foreign specimen
Tringa lobata (Grey Phalarope)
Tringa Ochropus (Green Sandpiper)
Tetrao Coturnix (Quail)
Rallus Porzana (Spotted Gallinule)

Rt. Hon. S. R. Lushington

W. Gunnell, Esq.

Master E. Sandys

Mr. J. Brent, Jun.

Mr. F. Collard

Mr. H. Leese

Mr. T. Kingsford

REPTILES.

- Lacerta Chamæleon* (Chamælion)
Testudo Scorpioides, and *Testudo Palustris*
Testudo pusilla (Least Tortoise)—*Lacerta Chamæleon* (Chamælion)
Rana Bufo (Common Toad)—stuffed
Coluber Melanocephalus, and *Coluber versicolor*

Mrs. Boteler, Sen.

E. S. Curling, Esq.

Major Neame

Mr. W. Brent

Colonel James

FISHES.

- Exocætus volitans* (Flying Fish)—and *Echinis Remora* (Sucking Fish)
Tetrodon Lagocephalus—*Tetrodon Hispidus*
—*Exocætus volitans* (Flying Fish)—Large stuffed Shark—Small stuffed Shark
Cottus Scorpius (Father Lasher)—*Diodon Histrix*
11 Foreign specimens of *Diodon Histrix*—*Ostracion quadricornis*—*Syngnathus Acus*—& *Syngnathus Hippocampus*
14 British specimens
Syngnathus Hippocampus

Mr. Wilkinson

E. S. Curling, Esq.

Major Neame

W. H. Walker, Esq.

Mr. W. Brent

Mr. Thomas Lott

INSECTS.

- Panorpa Coa* (Scorpion Fly)
Hydrophilus piceus (Water Beetle)
Sphinx ligustri (Privet Moth)
100 British specimens
14 ditto
Specimens of Larvæ of *Bombyx Cossus* (Goat Moth)
4 beautiful specimens of Larvæ of Foreign Insects (Cape of Good Hope)
180 Foreign specimens (China)
Sphinx ocellata (Eyed Hawk Moth) *Phalæna pudibunda*—(Tussock Moth)—*Dytiscus marginalis*
Lucanus cervus (Stag Beetle)—*Sphinx ocellata*—and *Papilio Cratægi*
Sphinx populi (Poplar Hawk Moth)
3 specimens of *Cossyphus Hoffmannseggii* (Portugal)
110 British specimens—and *Gryllus grylotalpa* (Mole Cricket)
1 British specimen
1 ditto

Mr. E. F. S. Reader

Mr. R. Lee

W. Collard, Esq.

R. Tomson, Jun. Esq.

Mr. Dix, Jun.

Mr. T. Paine

Major Neame

W. H. Walker, Esq.

Messrs. J. and W. Masters

Mr. W. Masters

Mr. G. Wood

H. Boys, Esq.

Mr. G. Newport

Mr. Ald. H. Cooper

Mr. J. Weeks

Cancer astacus (Craw Fish)

Ditto

Ditto

S. Kingsford, Esq.

Mr. W. H. Furley

- 10 specimens of Foreign Crustaceæ, and
 2 specimens of Foreign Asterias (Star Fish) } W. H. Walker, Esq.

SHELLS

- 4 Foreign Shells, and Upper Shell of Cancer aranea
 Pair of Shells (Pinna nigra)
 4 Pairs of Shells (Mytilus anatinus)
 1 Foreign Shell (Chiton niger)—Various British Shells, and 25 Specimens of French Shells
 30 British Shells
 1 Foreign Shell (Helix otis)
 1 Ditto, (Pinna rudis)
 50 Specimens from the Cape of Good Hope
 4 Large Foreign Shells, and a Box of Small Shells
 Various Specimens of British Shells
 Pair of perfect Shells of the Pholas dactylus
 Voluta flaviola, and another Foreign specimen
 Strombus chiagra, and 3 other Foreign Shells
 1 Foreign Shell (Strombus Gallus)
 4 specimens of Nautilus spirula, and Tellina radiata

Mr. Moss
 Mrs. Small
 Mr. Nettle

Rev. G. R. Leathes
 Mrs. Cornish
 Mr. C. Weekes
 Mr. G. Newport
 Major Neame

Mr. E. C. Tryon
 Mr. Andrews
 Mr. Robinson

Mrs. W. Masters

E. S. Curling, Esq.
 Mr. W. H. Weekes

Mr. Thomas Weekes

ZOOPLHYTES

- 7 Specimens of beautiful Madreporæ from the Straits of Malacca
 Specimen of Madrepora pileus
 Specimen of Brainstone (Madrepora cerebrum)
 Large specimen of Madrepora

I. Furley, jun. Esq.
 E. S. Curling, Esq.

Mrs. Cadman
 Mr. Fedarb, jun

COMPARATIVE ANATOMY

- Several teeth of the Sperm Whale
 Head of the Hippopotamus or river Horse (Hippopotamus amphibius) and large tusk of Ditto
 Pair of wings of the Flying Fish
 Injected specimen of the Common Frog
 Pair of Buffalo's Horns
 Portion of the Head of the Albatross
 2 Pairs of Shark's Jaws
 Head of the Wild Boar from Ceylon. Head of the Porpoise (Delphinus phocaena) and Vertebrae of the Shark
 Portions of Sepia or Cuttle Fish
 Vertebrae and Jaws of the Shark

Mrs. Small

Capt. Boteler, R. N.
 Mr. G. Wood
 W. Healds, Esq.
 Mr. I. Coleman
 Mr. Rouse, jun
 Lieut. Col. Wigston

E. S. Curling, Esq.
 Mr. Fedarb
 I. Furley, jun. Esq.

VEGETABLES

- Specimen of Native Cotton
 Specimens of Tea from China
 Specimen of the double-fruited Cocoa Nut (Lodoicea sechellarum) Specimen of Foreign Bark with singular coneshaped prickles, and 1 Cashew Nut

S. Kingsford, Esq.
 Rev. G. R. Leathes

W. Healds, Esq.

FOSSILS

- 2 Fossil Shells
 Various Specimens of Fossils
 30 Specimens of Alluvial Shells, 2 Specimens of Fossil Wood with Pyrites, and Mass of Fossil Vermes
 Very large Fossil Oyster
 Part of the Jaw of Fossil Ichthiosaurus, and portion of Pelvis of Ditto, found at Sturry Kent, and various specimens of Chalk and Galt Fossils
 Collection of Fossils from the French Coast (Boulogne)
 3 Fossil Shells, and 1 Echinus
 Specimen of Fossil Wood
 2 Specimens of Fossils
 Large Specimen of Ammonite from Chalk
 2 Specimens of Fossil Wood, and Large mass of Fossil Shells
 100 Specimens of Green Sand, Galt, and Chalk Fossils
 Various Specimens of Ammonites from Whitby, 4 polished specimens of Fossil Wood, and 20 polished specimens of Ammonites and Madreporæ
 36 Specimens of Chalk Fossils, and various Specimens of Green Sand and Chalk Fossils
 Large Fossil Pecten from the Oolite
 Fossil Bone from above the Chalk, Margate
 38 Fossils, and 2 Specimens of Fossil Wood
 8 Specimens of undescribed Fossil Sponges, 33 specimens of Fossil Sponges, Shells, &c., 1 Vermicularia, 6 spines of Echini, and specimen of Wood in Chalk
 Specimen of Fossil Wood
 1 Fossil Nautilus, and 3 Cstreæ
 2 Specimens of Fossil Sponge, 1 Fossil Fruit
 1 Specimen of Phytolithus, 1 Ammonite
 Large fossil Tortoise embedded in Cement Stone, 3 fragments of Bones of the Mammoth, 8 Chalk Fossils, various specimens of Alcyonites, and sponges in Flint, and numerous Kentish Fossils
 400 Specimens of Fossil Shells from Grignon, Aix la Chapelle and St. Vie, and various specimens of the Craig Fossils

MINERALS.

- 2 Polished specimens
 Specimen of Zinc, and various others
 Collection of the Granites of the Isle of Guernsey
 Specimen of Pyrites in Flint, and 2 other Minerals
 Polished specimen of Stalactite from Gibraltar

Mr. Nettle
 H. Wrighte, Esq
 Mr. Hills
 Mr. Thomas Cooper
 Mr. W. Masters
 Brian Hodgson, Esq
 W. Healds, Esq
 Rev. D. Brammall
 Mr. C. Philpot
 Ralph Royle, Esq
 Mr. J. Homersham, jun.
 Sir J. M. Tylden
 I. B. Gunnell, Esq
 Rev. R. Price
 Mr. Thomas Friend
 Dr. Jarvis
 Mr. E. C. Tryon
 Mr. Dadd, Curator of Chatham Museum
 Mr. W. Philpot jun.
 Mr. W. Benstead
 Mr. Thomas Weekes
 Jas. Dombrain, Esq.
 Wm. Bland jun. Esq.
 Rev. G. R. Leathes
 J. J. Peirce, Esq.
 Mr. Ald. R. Friend
 H. P. Hutchinson, Esq.
 Mr. J. Homersham, jun.
 Mr. Ald. Snoultten

Various specimens of Welsh Crystals and Irish Quartz

Collection of Geological specimens from the French Coast (Boulogne)

5 Specimens

Specimen of Breccia of Pebbles from Folkestone

28 Specimens

2 Ditto

3 Ditto of Labrador Feldspar

Various specimens of Quartz in Sandstone

Basaltic Column from the Giant's Causeway, (Ireland) Ditto from Staffa's Cave, (Hebrides) and 14 specimens of Minerals

20 Geological Specimens

Capt. Barker (39th)

B. Hodgson, Esq.

W. Healds, Esq.

Rev. D. Brammall

Mr. E. C. Tryon

Mr. W. Benstead

Mr. Thornton

H. Wrighte, Esq

Jas. Dombtrain, Esq.

Mr. W. Masters

ANTIQUITIES.

3 Roman Spear Heads, part of a Roman knife, Umbo of a Roman Shield and 2 portions of ditto, dug up at Eythorne, Kent

Fine Roman Glass Lachrymatory, 1 Roman Earthen Vessel, 2 Roman Spear Heads, 1 Head of a Battle Axe (Reculver)

1 Roman Spear Head

Antique Ring dug up on Barham Downs

Collection of Roman Antiquities found at Smeeth, Kent, comprising Spear Head, portions of Sword and Dirk, Copper Culinary Utensil, specimen of Pottery, Crystal Boss or Bulla, with portions of the Silver chain with which it was suspended, Ring of twisted Silver wire, Copper Brooch, Button or Fibula for the attire, 4 ornamented Clasps or Fibulæ for confining the Toga, colored earthen Bead, and portions of Buckles and Ornaments belonging to the Girdle

Mr. W. H. Weekes

Mr. Isaac Sladden

Mr. Thomas Ridout

Mrs. Allen

COINS, &c.

Silver Groat of Edward 3d.

1 Roman Copper Coin

2 Roman Copper and 6 English Silver Coins, 1 Copper Medal

6 Coins

Gold Rial of Edward 4th, 2 Gold Crowns of Charles 1st, 3 English Silver Coins, 3 Foreign Silver Coins, 3 Abbey Tokens

Several Roman Coins

1 Roman Copper Coin

1 English Silver Coin

1 Ditto

1 Ditto

3 Ditto and 1 Roman Copper

Various English Coins

1 Roman Copper Coin

1 Ditto and 1 English Silver

1 Coin

1 Silver and 8 Copper Portuguese Coins

5 English Silver Coins

Edw. Hughes, Esq.

Mr. Richard Lee

Mr. Robert Sankey

J. J. Peirce, Esq.

Mr. Nettle

Mr. R. Harman

Messrs. J. & W. Masters

Mr. J. Weeks

Mr. Bundock

Mr. George Buckley

Mr. C. Sharp

Mr. W. Masters

Mr. W. Brent

Mr. G. D. Keen

Mr. C. Weekes

Dr. Jarvis

Mr. Ald. Snoultten

Mr. T. T. De Lasaux

- 2 Ditto, and Napoleon Medal
 7 English and 2 Roman Coins
 1 English Silver Coin

Mr. John Pout
 Mr. Browning
 H. Wrighte, Esq.

ILLUSTRATIONS

Of the Manners and Customs of different Nations.

Hammock from Panama, South America
 Curious Straw Basket
 French Pipe and Case and Curious Pistol
 Specimen of Bark Cloth from South Seas,
 Pair of Turkish Shoes, Dagger of South
 American Indian, North American In-
 dian's Pipe formed of Porphyry, Iron
 Cuirass from the Field of Waterloo. Epau-
 lettes and other Swedish military accou-
 trements from Ditto, Model of a Canoe
 with outrigging &c. from Columbo, Cey-
 lon

Capt. I. Miller
 Mrs. R. Curling
 Mr. John Pout

Ornamental Dress of Caffrarian Chief, Hat
 made of Porcupines quills, 3 Carved
 Wooden Spoons, 6 Javelins, 1 Battle Axe,
 1 Shield, Various Beads, Bracelets, Arm-
 lets, Necklace and ornaments of the per-
 son, from Caffraria

E. S. Curling, Esq.

Indian Quiver

Chinese Cap and Cloak

Suit of Mahratta Chain Armour

Apron worn by Gachouw King one of the
 native Tribes in the interior of Africa

Major Neame
 Lieut. Col. Wigston
 John Furley, jun. Esq
 W. Delmar, Esq

Mr. A. Stirling

MISCELLANEOUS

Egg of the Emu (*Struthio Novæ Hollandiæ*)

2 Eggs of Ditto

Nest of Common Wasp (*Vespa vulgaris*)

Human Skull found with Roman Antiqui-
 ties at Bridge Hill

Egg of *Tringa vanellus* (Lapwing)

60 Birds Eggs and 5 Nests

Pupa Case of *Phalæna vinula*

Various Pupa Cases, Larvæ, and Eggs of
 British Insects, Mud Nest of *Apis pilipes*,

1 Bird's nest and 3 Eggs

4 Quail's Eggs

Rt. Hon.. Earl Darnley
 E. S. Curling, Esq
 Messrs. I. & W. Masters

Mr. Tyson
 Mr. I. Wood
 Mr. T. Cooper, jun
 Mr. Andrews

Mr. G. Newport
 Mr. H. Leese

WILLIAM MASTERS, *Curator*,
 JOHN FRIEND, *Secretary*.

Trustees of the Building.

Mr. Alderman R. Frend	T. L. Burch, Esq.
Mr. Alderman J. Cooper	Mr. W. Philpot
Mr. Alderman J. S. Browne	Mr. G. Ash
Mr. Alderman M. Cowtan	Mr. J. T. Linford
Mr. Alderman W. Homersham	Mr. W. Beer
Mr. Alderman W. Jones	Mr. G. Wood
Mr. Alderman G. Frend	Mr. W. Masters
Mr. Alderman H. Cooper	Mr. H. K. Nisbett
Mr. Alderman O. Snoulten	Mr. T. Wilkinson
J. J. Peirce, Esq.	

Committee.

Mr. Alderman Snoulten	Mr. W. Masters
Dr. W. H. Carter	Mr. T. Read
T. L. Burch, Esq.	Mr. C. Weekes
Mr. W. Brent	Mr. J. Pout
Mr. J. T. Linford	Mr. J. Friend
Mr. T. Hart	Mr. S. Phillips

Officers of the Institution.

Secretary—Mr. T. Wilkinson
 Treasurer—Mr. C. Weekes
 Librarian—Mr. J. Pout
 Guardian of the Apparatus—Mr. S. Phillips
 Collector of Subscriptions—Mr. T. Davey

Officers of the Museum.

Directors.

H. W. Carter, Esq. M.D. F.R.S.E.	R. Frend, Esq. Alderman
R. Chisholm, Esq. M. D.	O. Snoulten, Esq. Alderman
W. H. Baldock, Esq. M. A.	G. C. Oxenden, Esq.

Curator—Mr. W. Masters, F. H. S.

Sub-Curators.

Mr. W. H. Weekes	Mr. W. Brent
Mr. F. Giraud	Mr. J. Brent, Jun.
Mr. E. F. S. Reader	Mr. G. Newport
Mr. J. Friend	

Secretary—Mr. John Friend
 Treasurer—Mr. Capon Weekes
 Exhibitor—Mr. Thomas Davey



Committee appointed for the year ensuing.

Mr. Alderman Snoulten	Mr. John Brent, Jun.
Mr. Alderman Henry Cooper	And the following Members, by
John Brent, Esq.	virtue of their Offices:—
Mr. Thomas Hart, Sheriff	Mr. William Masters
Mr. Thomas Read	Mr. Capon Weekes
Mr. John Thomas Linford	Mr. Solomon Phillips
Mr. William Brent	Mr. John Pout
Mr. John Weeks	Mr. John Friend
Mr. Henry King Nisbett	Mr. Thomas Wilkinson

ANNUAL REPORT

OF THE

Canterbury

PHILOSOPHICAL AND LITERARY

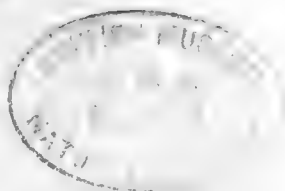
INSTITUTION,

Presented at the

ANNUAL GENERAL MEETING,

22nd SEPTEMBER, 1829.

Sic itur ad astra.



PATRONS,

The Right Worshipful the MAYOR of CANTERBURY,
(for the time being).

The Right Honourable the EARL of DARNLEY.

The Right Honourable the EARL of GUILFORD.

The Right Honourable LORD SONDES.

The Right Honourable LORD CLIFTON, M.P.

Sir EDWARD KNATCHBULL, Bart. M.P.

The Right Honourable S. R. LUSHINGTON, M.P.

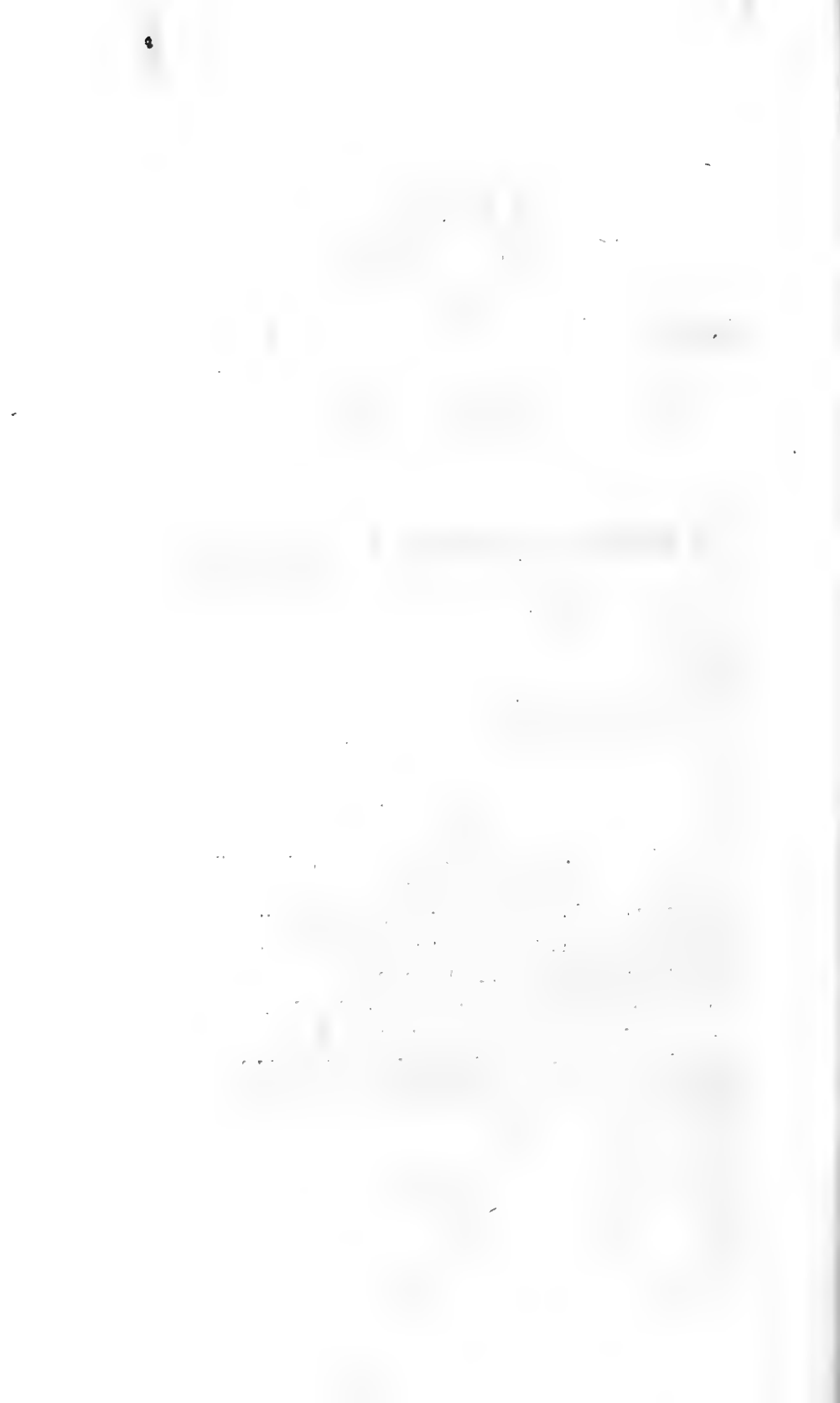
WILLIAM PHILIP HONYWOOD, Esq. M.P.

JOSEPH ROYLE, Esq.



CANTERBURY:

Kirkby and Smithson (*Kentish Gazette Office*), 10, St. George's-street.



REPORT

OF THE COMMITTEE.



The Committee beg to lay before the Society a summary of the Lectures which have been delivered since the last Annual General Meeting—an account of the Treasurer's receipts and disbursements—and of the presentations to the Library.

The Committee feel much pleasure in stating that the Lectures have, during the past year, been attended by a greater number of Members and Visitors than during any preceding year. The approval of the exertions of the Lecturers may be inferred from that circumstance; and the Committee can but offer, in the name of the Society, their acknowledgments to them for their exertions in promoting the objects which the Society has in view.

In regard to the suspension of the Lectures during the last three months—a circumstance which has not before occurred—the Committee consider it their duty to the Members, and to the public generally, to state, that they were induced to make that arrangement partly at the request of several Lecturers for a short remission of their labours, and partly from the Lecture-room, during the summer months, not having been constantly and regularly attended. The recess, it is hoped, will not be in any way detrimental to the Institution. The Lectures announced for the ensuing quarter evince the devotedness of the Lecturers, and will ensure for that period a regular series of subjects, both scientific and literary.

The state of the year's receipts and payments will appear by the abstract of the Treasurer's accounts. The

Committee regret to say that the receipts have been barely sufficient to pay the annuity—the interest of the bond debt—and the current expences, which have been considerably reduced. Many bills are outstanding, which it is desirable should be discharged.

Several valuable additions have been made to the Library, as will appear by the Librarian's report. Amongst these, the Committee can but call particular attention to a work by one of the Honorary Members of the Institution, Gideon Mantell, esq. F. R. S., illustrative of the Geology of Sussex, with figures and descriptions of the fossils of Tilgate Forest, which is particularly valuable to the Society, by its judiciously improved nomenclature of the Secondary Class, and which has placed its author high in the scale of scientific knowledge in his own country, as well as on the Continent.—Also to a work on the Celtic Druids, presented by Godfrey Higgins, esq., F.S.A., the author; being a most erudite and valuable production, full of interesting historical, and philological facts and inquiries.—Also to a Memoir of the Universal Portable Eudiometer, dedicated by its author, Wm. Henry Weekes, esq., a most active and zealous Member, to the Members of the Institution; containing a description of that instrument, which has been found eminently advantageous in the department of Pneumatic Chemistry. This philosophical apparatus is the invention of Mr. Weekes, and within the walls of this Lecture-room it was first submitted to public opinion.—And also to a scarce work presented by Sir Egerton Brydges, bart., being *Mémoires pour la vie de François Pétrarque*.—A few volumes have been added by purchase, at a reasonable price; but the limited means of the Committee have prevented the improvement in this department which it would be most advantageous to accomplish.

The engraving of the Royal Harbour of Ramsgate has, through the liberality of its author and publisher, Mr. Louis Lewis, been kindly presented, and forms a desirable acquisition to the present collection.

The Committee have, during the past year, made some improvements in the Lecture-room, which may now vie in appearance and convenience with any public room in the City.

The Committee beg to refer to the report of the Directors and Curators with regard to the Museum.

The accession of Sir Henry Oxenden, bart., and several other gentlemen, to the list of Members, proves that the Institution is gaining in public estimation.

The Committee consider it a pleasing duty to call particular attention to the valuable donation by Edward Spencer Curling, esq., of Deal, of the window of rich, curious, and highly ornamental stained glass, in the Museum. As an acknowledgment of their sense of the value of this, and the various other contributions of that gentleman—of the active desire which he uniformly manifests to render service to the Institution, and of the friendly interest which he has taken in its welfare and prosperity, the Committee considered it due, to pay him the highest compliment in their power—that of electing him an Honorary Member.

The Committee have also done themselves the pleasure of conferring the same compliment on Godfrey Higgins, esq. F.S.A. the author and presenter of the valuable work before alluded to, on the Celtic Druids.

The Committee have also done themselves the pleasure of paying the same compliment to a young and rising artist of considerable talent, Mr. Henry Weekes, who sometime since presented the Classical Figure which now adorns the Museum, and who has also recently presented

the Society with another of his works—a Bust of one of the valuable patrons of the Institution, the Right Honourable the Earl of Darnley.

The Committee are happy in having it in their power to state, that a sufficient sum has been raised, by subscription, to repair that splendid relic of antiquity, the gate of Saint Augustine's Monastery. The preparations for the work are in a state of forwardness. They call attention to this circumstance, from the idea of preserving this valuable monument of other days from destruction, having originated at the last Anniversary of the Society, and as affording a proof that the Institution may be beneficial in regard to matters not immediately within its province, and which individual exertion might be inadequate to accomplish.

The Committee in surrendering the powers delegated to them into the hands of the Members, do so in the hope that the exertions of the past year will meet with their approval.

In conclusion, they can but express their full conviction, which is grounded on past experience, that if the Institution be conducted with the same attention to the objects of its formation that it has hitherto been, it will long continue a valuable and creditable Institution to the City and County;—that while the fundamental rules for the exclusion of religious and political controversy be rigidly adhered to, the Members will for many years enjoy that harmony and reciprocal good feeling, which must flow from an institution alone devoted to the acquirement and communication of useful knowledge;—and that its influence will extend to many, and incite them to the cultivation of intellectual pursuits, the great medium and sure basis of mental and moral improvement, civilization and happiness.

S U M M A R Y

OF THE

LECTURES

Delivered since the last Annual General Meeting.

1828—*October 7.*—Mr. T. B. Bunbury delivered a Lecture on Animal Physiology, in which he considered the formation and peculiarities of bones; the heart and circulating system; muscular system; brain; &c. accompanied with appropriate illustrations.

October 21.—Mr. W. H. Weekes delivered a Lecture on Carbonic Oxide, Explosions in Mines, Davy's Safety Lamp, &c.

In this lecture, designed as a continuation of the combinations of carbon, Mr. W. first directed the attention of his audience to that peculiar form of gaseous matter denominated *Carbonic Oxide*, from the circumstance of its being found to consist of carbon and oxygen, in different proportions from those which he formerly shewed to constitute *Carbonic Acid Gas*. Its specific gravity, combustibility, and various properties were shewn by numerous experiments, after which Mr. W. introduced a series of practical illustrations relative to the explosive admixture of carburetted hydrogen and atmospheric air, so fatally destructive to miners, and recognised by them under the appellation of *fire-damp*. The investigation of this division of the lecturer's subject very naturally led to the introduction of the grand discovery of our illustrious English chemist, Sir H. Davy, namely, the SAFETY LAMP, a large working model of which Mr. W. introduced repeatedly into a spacious glass receiver, placed on the middle of the lecture table, and containing nearly two cubic feet of the explosive gas, fire-damp, with entire security, the wire gauze cylinder of the instrument during the experiment inclosing a beautiful lambent flame, while the atmosphere of gas by which the lamp was surrounded remained tranquil and unexploded beneath the hand of the operator, who immediately afterwards demonstrated to the

audience that the slightest access of *unguarded* flame, or the contact of a mere spark, would have been attended with the most fatal consequences, besides shivering the whole apparatus to atoms. These experiments were followed by a variety of others, demonstrative of the original principles upon which this most important instrument was constructed by its great inventor, whose successful exertions on this subject Mr. W. characterized as one of the most brilliant examples of legitimate inductive reasoning presented in the annals of science. The lecture concluded with the introduction of a new form of compound gas, obtained from the decomposition of Caoutchouc, or elastic gum, remarkable for the beauty and brilliancy of its combustion, and as being precisely, volume for volume, of the same specific gravity as atmospheric air.

October 28.—Mr. W. Brent delivered a Lecture on Aesthetics, which he defined as comprehending all those finer sensibilities that appertain to the human mind, and which, assisted by memory and imagination, give that zest to life which would scarcely be worth courting if deprived of their influence. Amongst the sensations which the Lecturer exemplified were those which most frequently attached themselves to the mind of man, and his definitions, descriptions, conclusions, and illustrations, possessed both reality and interest.

November 4.—Mr. John Brent, jun. delivered a second Lecture on the Supernatural in Fiction. He entered into the description of the supernatural, in the Mythology of the Oriental, the Classical, the Scandinavian, and the Celtic nations. The supernatural creations of the East, founded on that luxuriance of imagination equally manifest in her poetry, literature, and religion, with many of the characteristic legends and superstitions of Arabia, Persia, and Hindostan, were then treated of. He then reviewed the mythology of classical history, and in passing to the subject gave an animated apostrophe to the departed splendour of Greece and Rome, remarking that the latter was not so famous for the supernatural creations of the mind as the former, and though the Romans possessed purity of language and chasteness of design, they were yet deficient in the splendid creations to be found in Homer, Pindar, Æschylus, &c. The mind and genius of the Greeks were then contrasted with those of their ancestors, the Egyptians. Scandinavian and Celtic Mythology were next treated of, and shewn to be of oriental and classical origin, but varied through the different customs of each individual

people. The different forms, or varied personifications, were described, under which the supernatural in this department was represented.

November 11.—Mr. Phillips delivered a Lecture in continuation of a series on Astronomy. He pointed out the advantages of the Science, compared the different appearances the Heavens would present if viewed from the Earth, or the Sun ; gave a brief description of the constellations, the galaxy or milky way ; explained the difference between real and apparent motion, and the causes of visual error ; the three principal properties of the sun—light, heat, and attraction, their different operations on bodies more or less remote ; the centre of gravity in the sun, the spherical form of the earth, the elliptic form of her orbit, the difference between solar and sidereal time, and concluded with a brief description of the solar system.

November 18.—Mr. Martin delivered a Lecture on the formation of Opinions, in which he endeavoured to shew that the mind is greatly influenced by external circumstances, and that the reception of every opinion depends solely on the nature of the supposed evidence by which it is supported : and the Lecturer thence inferred the involuntary nature of all belief, and demonstrated the fact by many striking illustrations.

November 25.—Mr. W. Brent delivered a Lecture on Amphibia, the third class of the Linnæan arrangement, and after noticing its two orders, Reptilia and Serpentes, and their distinguishing characteristics, proceeded to the examination of the first three genera of the first order, Testudo, Rana, and Draco,—and illustrated his subjects with specimens from the glass cases of the Society's Museum.

December 2.—Mr. Read commenced a course of Lectures illustrative of the Turkish Empire, its history, manners, laws, religion, and dependent states. The origin of the nation, its early history, conversion to Mohamedism and settlement in Europe were respectively treated of. He next mentioned the discord amongst the Christian Princes and their disastrous crusades ; the establishment of the Turkish Empire ; and foundation of the order of Janissaries. He noticed the attempt made in the last Century to introduce the Art of Printing. The head of manners and customs was arranged in the order of events in human life ; and Mr. R. mentioned many particulars relative to their domestic economy, and commented on the evils resulting from Polygamy, concluding with observations on their sepulchral rites and ceremonies.

December 9—Mr. W. Masters delivered a Lecture on Vegetable Physiology. This lecture was principally devoted to the consideration of the developement and increase of seeds, and the conditions necessary for such results were stated to be;—first, a perfect arrangement of the parts of the seed itself; second, the placing of the seed in a proper condition, externally for germination. In the latter division the exclusion of light was mentioned to be almost an indispensable requisite, for seeds subject to its action could never vegetate although surrounded by other circumstances perfectly favourable, added to which a sufficient temperature of heat is necessary, as no seeds have ever been found to vegetate at a temperature below the freezing point. A most important point was also stated—that of the access of moisture to a certain degree, and lastly the free admission of atmospheric air, as no germ could be evolved neither in vacuo, nor in an artificial atmosphere of any of the gases, (except oxygen,) in a pure state, but with oxygen in combination with many others, growth is effected, and with oxymuriatic gas, vitality appears even to be accelerated. The chemical changes of seeds during germination were next adverted to, and also the various periods of time at which different kinds retain their power of vegetation.

December 16.—Mr. Masters delivered his second Lecture on Vegetable Physiology. This was illustrative of the developement of the young plant from the seed, and explanatory of its progress through its various stages of growth, maturity, and decay. The formation of the Epidermis, Liber, and Alburnum or Wood, were described, and many specimens of each exhibited in illustration. The beauty and variety of the grain in Wood was stated to arise from the concentric and divergent texture of the several layers. The evolvment of Buds, and the production of the branches from them was considered, and the Lecture concluded with some extended remarks on grafting by which the most esteemed kinds of plants were perpetuated and increased.

December 23.—Mr. T. Baskerville, jun. delivered a Lecture in which he treated on and explained the nature and properties of matter—its impenetrability, divisibility, mobility, &c. according to the Newtonian Theory.

December 30.—Mr. W. Philpot, jun. delivered his second Lecture on Gymnastics; in which he recapitulated the heads of his former lecture, and called the attention of his audience to the valuable results produced by exercise; and strengthened his arguments by giving the opinions of many eminent Physicians. The Lecturer then adverted to

the declination of Gymnastics; and observed that had they been properly pursued and practised with due regard to the system, they would in all probability have been held in as high esteem in England as they are on the Continent at the present day.

1829—*January 6 and 7.*—Mr. Giles delivered Lectures on Astronomy. He commenced his first lecture with a definition of the science, its early history, and relative usefulness. He then treated of the doctrines of attraction and forces, shewing how the orbital motions of the planets were produced, and accounting for their elliptical form. He proved by a variety of considerations the earth's annual and diurnal motions, its figure, and how computed by Sir Isaac Newton by the oscillations of pendulums, &c. In the lunar illustrations—the moon's phases, revolutions, the heights of her mountains, with the method of finding them by the micrometer and trigonometrical calculation; and the difference between a periodical and synodical month were explained. The sun—his spots, magnitude, distance, and the method of finding it by his horizontal parallax, were next dwelt on. The inferior and superior planets, their magnitude, distance, and peculiarities, and the method of finding the longitude by Jupiter's satellites were considered; and the orbits, motions in consequentia and antecedentia, the perihelion and aphelion, distances, &c. of comets, formed the concluding subject of the first lecture.

In his second Lecture Mr. G. explained heliocentric and geocentric longitudes; defined direct, stationary, and retrograde motions, and the conjunction and opposition of the planets; explained the harvest moon; took comparative views of the sun, earth, and moon, introductory to a consideration of eclipses; shewed how eclipses of the sun and moon were produced; the phenomenon of an annular eclipse, the duration of eclipses, and the method of finding their occurrence. Explained the moon's nodes, &c.; the seasons, and on what their variations depend; the zodiacal signs; the method of calculating longitude at sea by lunar observations; and a diagram of the Chinese zodiac. He considered the theory of the tides under various theorems, and explained the apparent anomalies in the Newtonian theory. He treated on the various systems of philosophers from the time of Pythagoras. The galaxy, nebulae, and theory of the fixed stars were next illustrated, and a calculation mentioned of the time that light and sound would be in travelling from Sirius to the earth.

January 13.—Mr. T. S. Dowton delivered a Lecture on Phrenology. He commenced with a retrospective view of the metaphysical doctrines respecting the nature and properties of the human mind which have existed from the days of Aristotle down to our own times, and endeavoured to shew the superiority of the phrenological system, which, by taking the cerebral developement into consideration, seems most calculated to pave the way for a rational and permanent philosophy. He divided the subject into three parts, in conformity with the phrenological classification of the mental attributes, animal propensities, moral sentiments, and intellectual faculties; and gave in this lecture an analysis of the first class, viz.:—The Animal Propensities.

January 20.—Mr. Dowton delivered a second Lecture on Phrenology: the second Class of Faculties—the moral sentiments, formed the subject, which Mr. D. observed differed from the propensities, inasmuch as they were always accompanied by an emotion or feeling of a particular kind, and hence were named sentiments by Dr. Spurzheim. The cultivation of this class of faculties by education and example was observed by the lecturer to be of the utmost importance, as they exert a benign influence over the lower propensities, soften and control their energies, and form, in fact, the very basis of the moral conduct.

January 27.—Mr. Wilkinson delivered a Lecture on the History of England, being the sixth of a series. The fifth lecture treated on the constitution, government, and laws, and the state of learning, from the Norman Conquest to the reign of Henry the Third; and this was devoted to the consideration of the state of the arts, commerce, manners, and customs during the same period. Mr. W. commenced by shewing the improvement in the state of the arts; particularly noticing those of agriculture, architecture, poetry, and music. He then adverted to the state of commerce, its comparative annihilation by the departure of the Romans, its languid state in the time of the Heptarchy, its gradual revival after the establishment of the English Monarchy, and gave some controversial remarks as to the effects of the Norman Conquest on internal and foreign commerce. He next entered on the manners and customs of this period—the most useful and entertaining, yet the most neglected and worst executed part of history; shewing the difficulty of forming clear conceptions of national characters and manners, and that imperfection must be the consequence. The manners and customs of the Anglo Saxons having been

before treated of, the observations were confined to those of the Normans, which became predominant, with collateral remarks on those of the inhabitants of Wales and Scotland. He traced, in a brief manner, the settlement of the Normans in the province of Neustria, their subsequent civilization, and invasion of England. He then noticed their contempt of the English, their endeavours to establish the French language on the ruins of the Anglo-Saxon, the introduction of the institution of chivalry, its principles, and its beneficial effects on the age in which it flourished; the introduction of family surnames and courts of arms, the superior magnificence of the Normans, the curfew bell, and its prevalence in different countries of Europe, as well as in England, its introduction not being intended as a mark of servitude. He then dwelt on the personal character of the Normans, producing some curious and amusing evidences in support of the delineations given of them. He next made observations on the languages of this period, as well those spoken by the descendents of the Ancient Britons and Caledonians, as on the Anglo-Saxon, and Norman-French; noticing the gradual and almost imperceptible changes in the Anglo-Saxon, and its general prevalence. He next made some observations on the domestic economy of the people of England in this period, their diversions, particularly the tournaments, hunting, hawking, and gaming, and concluded with a review of the subjects treated of in this and the preceding lecture.

February 3.—Mr. W. H. Weekes delivered a Lecture on the further combinations of Carbon in the solid and gaseous forms. In commencing this lecture—the concluding one of a series of five, on carbon and its combinations—Mr. W. remarked, that the devotion of so much time to a single subject of chemical investigation, had probably appeared to many as almost unwarrantable, but that so manifold and important were the unions of this abundant and interesting material of nature, that time alone regarded, he had not rendered justice to the subject, even to the amount of one half of its claims upon the society's attention. The following presents an outline of Mr. W.'s lecture, conclusive of the above named series:—Various sources of carbon recapitulated.—Yielded in the gaseous form from the surface of the human body, with an illustration of the mode of collecting this exhalation, and experiments therewith.—Furnished during the respiration of animals.—One of its unions with oxygen demonstrated to possess acid properties.—Water decomposed by red hot charcoal.—Theory of the

experiment.—Decomposition and re-composition of carbonate of lime, with an experiment illustrative of the various and incessant changes undergoing by the modifications of matter.—The existence of carbon in the gaseous form demonstrated by its palpable reduction to the solid state within a glass tube, by the action of phosphorus.—On a species of carburetted hydrogen obtained from stagnant waters.—Its properties, &c. exhibited.—Olefiant gas.—Mode of procuring.—Its general properties.—Large proportion of carbon it holds in combination shewn by experiment.—Its explosions, when united with oxygen gas, from contact of flame and the electric spark.—Its union with chlorine, and the consequent formation of chloric æther.—Union of carburetted hydrogen with chlorine by a succession of electric discharges.—Ignition of charcoal, in a pulverised state, by chlorine gas.—Luminous shower exhibited by its descent.—Similar experiments with powdered antimony and plumbago.—Examination of the malachite, green carbonate of copper, (a beautiful specimen from the society's museum).—Its reduction to the metallic state.—Perfect fusion of plumbago, or graphite, by the agency of the mixed gases, the combustion of which was on this occasion effected by a self-acting safety apparatus, capable of continuing an uninterrupted igneous jet during three quarters of an hour. By this experiment a number of perfect and beautiful globules were obtained from the assay, presenting various shades of colour, and of a hardness enabling the operator to cut glass with facility; thus exhibiting another striking proof of the similarity existing between the diamond, plumbago, and charcoal. Mr. W. concluded this series of lectures by an exhibition of the intense light yielded by carbonate of lime, when acted upon by a jet of burning gas from the apparatus mentioned in the last experiment. The lecture-room in an instant became illuminated by the most vivid description of light imaginable; and the lecturer, in speaking of its important application to the purpose of geodesical surveys, demonstrated that the light thus produced had been distinctly seen at a distance little short of one hundred miles.

February 10.—Mr. Martin delivered an introductory Lecture on the science of Ethics, in which were explained the objects which this branch of knowledge comprehends, and concluded by enforcing the study of it, on the ground of its being interwoven with the dignity and peace of rational beings.

February 17.—Mr. Read delivered a Lecture on Architecture, the one on comparative anatomy, announced for

this evening, having been unavoidably postponed. Mr. Read, on request, repeated a portion of a former lecture on the construction and architecture of Bridges, which had been delivered under unfavourable circumstances of weather; and to this he added a dissertation on Roofs, shewing the great superiority of the modern builder in the manner of constructing that very important part of architecture. A large diagram explained clearly the nature of this superiority. Much information on the general principles of trusses, and details of particular roofs, were added.

February 24.—Mr. T. Baskerville, jun. delivered a Lecture on Electricity. He gave the history of electricity from the time of Theophrastus to the present æra; treated on the nature of the electric fluid, the ease with which it pervades the substance of some bodies, and the great difficulty it experiences in passing through others; at the same time he observed that it could not be the real substance of bodies which is pervaded by the electric, a material fluid, as all matter is impervious to matter, so that electricity must pass through the interstices of bodies, and the difference of number of these in various bodies most probably would account for the different degrees of velocity with which they are pervaded by the fluid. The nature and *modus operandi* of the machine was then explained, and the phenomena of attraction and repulsion experimentally shewn; and the lecturer concluded with experiments on the penetrating quality, and the illuminating power of the electric light.

March 10.—Mr. Read delivered a second Lecture on the Turkish Empire. He recapitulated the heads of his former lecture, and proceeded to notice the condition of the Turk as a member of society. The character of the government, and its influence on society, were pointed out and feelingly lamented. A description of the ceremonies attendant on the accession of a monarch was made the vehicle of introducing a notice of the several officers of state. The singular mode by which discontent seeks to attract the royal notice by frequent fires in the capital suggested reflections on the degradation of the people. A description of the great fire in 1755 followed. The partial and imperfect character of the law, and the defects in its administration, were pointed out, and some illustrative and corroborative anecdotes given. The evasion of the command forbidding the use of wine, and the excesses of the Turks when under its influence were mentioned; and a general view of the internal state of the empire in civil and criminal affairs concluded the lecture.

March 17.—Mr. Phillips delivered a Lecture on Optics. He treated on the nature and properties of light, its prismatic colours, the effects of reflection and refraction, the diverging and converging of rays of light in passing through lenses of different forms; on the structure of the human eye, explaining its imperfections, and suggesting the remedies by use of lenses of different constructions, &c. and produced in illustration of this subject a series of well-executed diagrams.

March 24.—Mr. Wilkinson delivered his seventh Lecture on the History of England. The period treated of was from the accession of Henry III. to the end of the reign of Richard II. He adverted to the plans of the British, Roman, Saxon, and Norman governments, and to the general view of their several systems of laws and political arrangements, which had been previously given. And after remarking that the general plan of government, and system of laws introduced by the Normans soon after their settlement, continued with some changes, to form the political constitution through the above period, he proceeded to shew the principal changes which the effects of party, the result of experience, and the alteration of circumstances, had made in the Anglo-Norman constitution, government, and laws, in the times he had under consideration. In the course of the lecture he particularly alluded to the several confirmations of the charters, the constitution of parliament, and its gradual and insensible approach to its present form, the state of the statute and common laws, the prerogatives and revenues of the crown, and the influence of the circumstances and events on historical record, on the political and civil conditions and institutions of the kingdom. Mr. W. then gave a brief delineation of the state of learning in the above period, with the sciences which were most cultivated and encouraged, and concluded with observations on the chief seminaries of learning, and with slight biographical notices of the lives, characters, and writings of those who were most distinguished for literary or scientific erudition, particularly Friar Bacon and Matthew Paris, both eminently worthy of a place in history, as conferring honour on their country.

March 31.—Mr. John Brent, jun. delivered a Lecture on the Supernatural in Fiction. He commenced his subject by calling the attention of the audience to that feeling of deep interest which the supernatural has at all times excited in the mind of man, especially in unenlightened times, when a falling leaf or an expiring lamp were thought to prophesy, and the very stars above were interpreters of fate. After de-

scribing the universality of this feeling, he resumed his description of the creations of Irish fancy, and the traditional tales connected with the mountain scenery of Wales, particularly when that country was the scene of the most romantic chivalry in the world, and the sportive wand of Merlin sent forth a new creation of enchanted beings. He then proceeded to a description of Arthur and his heroes; Charlemagne and the Paladins of France and Spain, names immortalized in the national songs of the Troubadours, and sung to the harps of the poets of Provence. And after alluding to the old English ballads, and the legends contained in many of these curious specimens of ancient poetry, the lecturer concluded by a description of those days when the chivalric spirit of romance was in its proudest glory, and when every deed of heroism was recorded with some connected legend of superstition and enchantment.

April 7.—Mr. T. S. Dowton delivered a third Lecture on Phrenology. The intellectual faculties were now treated of under two heads—the perceptive, and the reflecting faculties. The perceptive he observed were employed in observing phenomena in general, in taking cognizance of facts and objects, and in collecting such materials as were to be subjects for the scrutiny and investigation of the reflecting powers. The former are employed on the specific objects of their consideration, whilst the latter advance a step higher, and compare one object with another, and judge of the various relations and dependencies of phenomena.

April 14.—Mr. Dowton delivered a concluding Lecture on Phrenology. On this occasion he proceeded to the practical application of the doctrines to the affairs of life; argued on the advantages that must result to society from cultivating the mind suitably to the correspondent natural developement; strenuously urged all those intrusted with the education of youth to give it the consideration its importance merits; and looked forward with confidence to the time when it will be universally acknowledged and esteemed as the touchstone of moral science.

April 21.—Mr. W. Masters delivered a concluding Lecture on Vegetable Physiology. This lecture was devoted to the consideration of the propulsion of the sap in vegetables. Mr. M. advanced some original remarks and opinions, and combated some of the older theories. The sap was described as being collected at the root of the plant, and from thence diffused through the whole structure, undergoing various changes in its progress through the trunk,

branches, and leaves, it becomes subject to the influence of light and air. Drawings of the conducting and returning vessels were exhibited. The various diseases arising from the obstruction or diversion of the sap were explained; and some remarks were offered in conclusion on the degrees of sensation and excitability apparent in some of the productions of the vegetable world.

May 5.—Mr. W. H. Weekes delivered a Lecture on the Metallic Ores, the Metals, and their Oxides. In commencing this series the lecturer remarked, that he felt to a certain degree he was about to risk the consequences of an experiment upon the taste, judgment, and good opinion of his auditors, as he should have to render their lecture-room subservient to the purposes of the laboratory, and devote the table to the support of crucibles, blast furnaces, and other apparatus suited to the analysis of organic bodies. After an introduction illustrative of the general nature of that class of bodies, the examination of which he was about to undertake, and conveying to his audience an outline of the modes pursued in smelting or reducing the ores of the metals upon a large scale, shewing also experimentally the most easy and direct methods by which they may be assayed for the purposes of philosophical inquiry, Mr. W. introduced, from the mineral cases of the Museum, a specimen of native sulphuret of antimony, and exemplified by numerous manipulations how it might be successfully analysed, both in the dry and humid way, until he at length separated the whole of its components—sulphur, lead, iron, silver, &c. and exhibited the antimony, in a beautifully arborescent metallic form, floating upon the surface of a jar of water. The whole of the experiments, and the principal apparatus employed this evening, presented to the audience a novel feature, and among the latter appeared a *blowing machine* upon a new principle, portable in its construction and decidedly effective in supplying the operator's blast furnaces with a constant stream of atmospheric air. The inexhaustibility of this department of chemical inquiry, seems to be indicated by the circumstance of the lecturer having occupied the attention of the society during one evening by his operations upon a single specimen. After the lecture Mr. W. introduced a singular and interesting form of experiment, shewing the complete reduction of nitrate of silver from its aqueous solution, and its tendency, when placed in the plane of the magnetic meridian, or within the influence of a powerful magnet, to pass in the direction of the magnetic poles,

where the silver accumulated in a beautifully revived form. This result had been previously contended for by Professor Muschman, a continental chemist, but its success doubted or wholly denied by the chemical philosophers of this country.

May 12.—Mr. T. Baskerville, jun. delivered a second Lecture on Electricity. He treated on the diffused appearance of the electric light in vacuo, and its compactness when observed in the atmosphere. The star and pencil of electric light were shewn by various experiments, to support the theory of Franklin of the single fluid. The phenomena of the Leyden Jar were then entered upon, and numerous experiments performed by its means, amongst which were the remarkable effects of the transmission of the electric fluid over cards painted with various mineral colours, exciting a presumption that the electric fire might contain sulphur, from the coincidence of its colouring effects with the precipitates thrown down from metallic solutions by sulphuretted hydrogen. The inflammation of combustible substances from the intense action induced by the shock was shown by divers experiments concluding the lecture.

May 19.—Mr. Martin delivered a second Lecture on Ethics, which contained a review of the theories of Mandeville, Clarke, Wollaston, Hobbs, and Hume, together with what is called the selfish system; and arguments were adduced for the purpose of proving each of the above systems of morals erroneous.

May 26.—Mr. Phillips delivered his second Lecture on Optics. He explained the decomposition of white light into its prismatic colours, and their analogy to music. He recalled the attention of his hearers to the laws and properties of refraction, by rays of light passing through different mediums; the refractive power of lenses, by their different formations; their application as spectacles for long and short-sighted persons; the phenomena of the rainbow, as caused by rays of light falling on drops of rain: and the formation of telescopes and microscopes. He gave a minute description of the human eye, which he illustrated by dissecting several eyes of animals, and pointing out the various coats and humours to which he had alluded.

June 2.—Mr. Warman delivered a Lecture on Phonics. He commenced by giving a satisfactory etymological definition of the terms by which the science is known; and defined the nature of sound, giving practical illustrations by means of the string of a violin, and musical glasses. He

then described the human voice, and its affinity to wind instruments; demonstrated the variations of tone, according to the vibratory motions of sounding bodies, as contained in the old theory, with some remarks on the new; and dwelt on the separation of the general from the particular motion effected, in order to prove the dependence of sound on their union. He next treated of the motion of sound; its different velocity through different mediums; the causes of echo; the organs of hearing, exhibiting a representation of their internal structure; the labyrinth, internal fluid, auditory nerve, and explained the action of sound on the ear; and concluded with a summary of the subject.

June 9.—The Rev. H. Lacey delivered a Lecture on the Hibernation of Animals. In the introduction to his subject he noticed particularly the purposes for which hibernating animals change their abode. He then considered those animals whose hibernation consists in repose, which he stated as one only of their several wintry conditions to which their habits and instincts impelled them; and observed that the phenomenon of torpidity differed according to the difference of class to which the animals belong, and that it was conformable to the effect which climate and other causes produced. He then gave examples of hibernating animals which do not fall into habitual torpidity, and of those torpid and quiescent animals which, regulated by circumstances, periodically undergo torpidity alike in cold and warm climates, observing that the latter admitted equally of torpidity, though with some variety of circumstance, dependent on the diversity of latitude in the different quarters of the globe. The lecturer then treated of the hibernation of birds, particularly noticing the apparently well authenticated hypothesis, that swallows during the winter season submerge in ponds and lakes, and the leading modern authorities in support of it, which, though advanced by persons of great weight and veracity, was supported by very inconclusive evidence. On many of the circumstances adduced to establish the hypothesis he commented with ability, observing that, if true, they must be considered only as exceptions to the general rule of migration, and as the aberrations of nature; and shewed that by the construction of their organs of respiration, by their specific gravity, &c. it was contrary to physiological deduction. The inquiry as to the period and country of their migration was reserved for a future occasion. Mr. L. next took a hasty glance of reptiles, worms, and insects—noted the circumstances of some of

the species being found in the interior of solid bodies ; of amphibious reptiles retaining a latent vitality, even when enveloped in ice in the higher latitudes, remarking that the gradual transition from animation to torpidity was not generally effected by sudden changes of temperature, but by slow degrees, which prevented destruction. He observed that the insect tribe periodically undergoes the phenomenon of hibernation ; but its influence and operation on creatures so minute almost eluded the study of the most ardent naturalist. The suspended animation of animalculæ was then noticed, and their return from the hibernating state. The former was conceived to be effected by the simple operation of cold, and the suspension of the animal functions ; which even if protracted by artificial means beyond the natural period, was not destructive of the vital principle. Analogy was relied on for conclusions in this department of the subject. He next offered some remarks on the piscatory race, a subject, it was observed, surrounded with difficulty and dissatisfaction, their habits of hibernation being but imperfectly ascertained. The lecturer then gave some general observations on the profound torpidity of animals, as arising from temperature, constitution, construction, or choice, the chief circumstance and consequence of which arise from the temperature of animals themselves ;—on its varying according to the difference of species ;—on the experiments which others had made on torpid animals, and their results as to the difference of temperature in an active or torpid state ;—on their abstinence, and the alternate suspension and renewal of respiration ;—on the comparison of their weight ;—on their circulation, susceptibility, and irritability ;—and on their temporary intervals of renewed animation.

June 16.—Mr. Read delivered his third Lecture on the History and Manners of the Turks. He stated the extent of the empire, and observed that his previous lectures applied generally to those states where the mass of the people were followers of Mohamed. He then proposed to describe successively the several larger provinces of the empire, and by an epitome of their ancient history, a view of their present state, and an inquiry into their resources, to estimate their importance to the general confederation, in order to judge what changes might be beneficial to the people, and how civilization and good government might be extended to them. The precedence in this inquiry was given to Egypt, of interest alike to the antiquarian, the geographer,

the politician, the merchant, and the public. The antiquity of the Egyptian Monarchy, the discordance in the tables of succession, and the patriotic works of the early kings, were severally noticed. To these succeeded an account of the first royal navy mentioned in history, that of Necus, who reigned about six centuries before our era. The lecturer stated that the Egyptian Dynasty ended soon after the death of Necus, and it was only at that time any information was afforded respecting those erections on the soil of Egypt which all succeeding ages have numbered amongst the wonders of the world. That we then hear of a portico added to the temple of Minerva, a Colossus placed before the temple of Vulcan, but who erected these sacred edifices, who constructed the tombs of Thebes, or the pyramids of Gizeh, is not to be learned from history, although modern research might yet do much to extract from the relics of antiquity this long desired information. The lecturer gave descriptions of the several stupendous works before named, and noticed the natural wonders of the Nile, and the explanations which travellers of enlarged minds have given of their causes.

June 23.—Mr. W. Masters delivered in continuation of a series, a Lecture on the English Poets. This lecture was devoted to the consideration of the poetic works of Pope, which were severally commented on; and many passages selected and read in illustration. Mr. M. concluded with a notice of Pope's literary contemporaries.

June 30.—Mr. Ashdowne delivered a Lecture on Geography. He treated of that part of physical geography which relates to the principal features of the earth's surface. After noticing the proportion which the land bears to the water, he referred to the difference in the general direction of the land in the old and new Continents; the similarity in the appearances of their peninsulas, and the dissimilarity which they present in their bays, gulphs, and rivers. He then spoke of mountains, their general character, their declivities, the direction of the principal grand chains, volcanic mountains, valleys, passes, and plains, mentioning the immense table land, situated in Central Asia, and amongst the Andes, and closing this part of his subject with a brief notice of Islands. A general view was then given of the origin of rivers, the small declivity of the most rapid, the cataracts which mark some in their progress to the ocean, the periodical increase of others, the various phenomena they present at their outlets, of the most remarkable circumstances attending the

principal lakes, and he concluded with some remarks on the ocean, its importance in the system of nature, its depth, level, colour, &c.

Sept. 22.—Annual General Meeting, when the Reports of the Committee, and of the Directors and Curators, &c. were read, the Treasurer's accounts inspected, officers appointed for the year ensuing, and the general business of the institution transacted.

T. WILKINSON,

Secretary.

DONATIONS TO THE LIBRARY.

Gideon Mantell, esq. F.R.S.—*Illustrations of the Geology of Sussex*, with figures and descriptions of the fossils of Tilgate Forest. 1 vol. 4to.

Godfrey Higgins, esq. F.S.A.—*On the Celtic Druids*. 1 vol. 4to.

Sir Anthony Carlisle, F.R.S.—*Pamphlet on the Alleged Discovery of the Use of the Spleen and of the Thyroid Gland*.

Sir Egerton Brydges, bart.—*Mémoires pour la vie de François Pétrarque*. 3 vols. 4to.

Mr. W. H. Weekes—*A Memoir of the Universal Portable Eudiometer*. 1 vol. 4to.

Thomas Lott, esq.—*M.S. account of the ancient and present state of Bow Church, London*, accompanied with a cast in plaster from a silver seal.

Mr. James Homersham, jun.—*Histoire de la Découverte et de la Conquête du Perou*. 2 vols. 8vo. And, *Le Bachelier de Salamauque*. 1 vol. 16mo.

Mr. John Pout—*Explanation of Packe's Philosophico-Chorographical Chart of East Kent*.

ENGRAVINGS, &c.

Mr. Louis Lewis—*A Proof Copy Print of the Royal Harbour of Ramsgate*.

Mr. John Pout—*Packe's Philosophico-Chorographical Chart of East Kent*.

BOOKS PURCHASED.

Sir Robert Ker Porter's *Travels in Russia*. 2 vols. 4to.

O'Reilly's *Voyage to Greenland*. 1 vol. 4to.

Shakspeare's *Plays*. 2 vols. 8vo.

Kentish Poets. 2 vols. 8vo.

J. POUT,

Librarian.

Abstract of the Accounts of the Institution from September 1828, to September 1829.

Received.		£.	s.	d.
Balance in Treasurer's hands on the last Account....		1	0	9
Members' Subscriptions.....		107	18	6
Ladies' Ditto.....		2	2	0
Visitors to the Lectures.....		10	15	6
Ditto to the Museum { Public Days £28 0 6 } { Private Days 12 1 6 }		40	2	0
Sale of Museum Catalogues.....		2	3	6
Ditto of Old Materials.....		1	0	0
Use of Lecture Room.....		1	10	0
Balance due to the Treasurer.....		18	8	7 $\frac{3}{4}$
£185 0 10 $\frac{3}{4}$				

Paid.		£.	s.	d.
Mr. Crow's Annuity.....		50	0	0
One Year's Interest on £1000.....		50	0	0
Mr. Davey, Exhibitor, One Year's Salary ..		20	0	0
Ditto for Collecting Subscriptions.....		5	9	0
Insurance from Fire.....		4	6	3
Poor Rates.....		3	7	6
Pavement Rate.....		0	14	0 $\frac{1}{4}$
Church Rate.....		0	11	5
Purchase of Books, Printing, Stationery, and Binding Books.....		13	11	5
Chemicals—Optical Glasses, &c. for Lectures.....		5	9	6
Purchase of Objects for the Museum.....		3	1	6
Preparation of Specimens for Ditto—Preservatives, &c.		11	19	6
Bilbe for Candles.....		1	8	3
Friend—Carpenter.....		5	0	0
Admans—Bricklayer.....		1	2	8
Newport for exchange of Furniture.....		1	10	0
Carriages of Parcels, Postages, Distributing Reports and Notices, and Incidental Expenses.....		7	10	0 $\frac{1}{2}$
£185 0 10 $\frac{1}{2}$				

C. WEEKES, Treasurer.

R E P O R T

OF THE

DIRECTORS AND CURATORS OF THE MUSEUM.

The Directors and Curators of the Museum have again the pleasure of offering their congratulations on the accession of many new and valuable subjects in Natural History during the past twelvemonth.

The cases appropriated for the illustration of Ornithology being found so peculiarly attractive to visitors, the Curators have felt themselves bound to increase the Collection of Birds by every means in their power, consequently a much larger sum has been applied to that department since the publication of the last report, than to any other in the Museum. The very flattering manner in which many of the members aided the endeavours of the officers in this particular (as will be seen by a reference to the list of donations) deserves, and will obtain the warmest thanks of the Society. The foreign birds were for the most part presented in the same state in which they were received from abroad, and have subsequently been set up at the expense of the Institution. It would be inappropriate to particularize many of the donations in this place, yet the following, by their brilliancy or rarity, claim to be enumerated. An undescribed species of Bustard (Genus *Otis* Linn.) and an undescribed Partridge (Genus *Tetrao*),

each from Nepaul, East Indies, which they have the authority of N. A. Vigors, esq. the Secretary of the Zoological Society, for asserting to be wholly unknown to the English cabinets, presented by Brian Hodgson, esq. Also the Banksian Cockatoo (*Psittacus Banksii*) from New Holland, stuffed and presented by Richard Gunnell, esq. A very fine and well preserved male specimen of the Black Grouse (*Tetrao Tetrix*), by Edward Quillinan, esq.; and a male Painted or Gold Pheasant (*Phasianus Pictus*), by Dr. Chisholm.

Many additions have been made to the series of Minerals. The collection from Edward Toker, esq. deserves particular notice; also several rare North American specimens have been added through the kindness of one of the most zealous friends of the society (Sir J. M. Tylden), who has also furnished a very large and perfect specimen of fossil tortoise from the London clay. As a proof that the reputation of the Society has gone abroad, and that it has numerous friends at a distance as well as at home, it is only necessary to advert to the handsome collection of minerals received in the most flattering manner from John Jacob, esq. of Guernsey.

In Geology a most important acquisition has been communicated through the favor of Mr. and Mrs. Wright, of Dalston. It may be remembered that in the report of the last year a notice was given of the commencement of a geological series of specimens, to illustrate the general formations, and their imbedded fossils. Through the aid of former friends, an exemplification of all the Kentish strata from the Craig to the Hastings Sand had been exhibited, as well as specimens from some few foreign localities of a similar character; but a long hiatus occurred between the latter formation and the old red sandstone,

which has in great measure been supplied by a presentation from Mr. and Mrs. Wright, containing specimens of the whole of the medial and supermedial orders, and when it is known that this collection was made by the Secretary of the Geological Society, its value will be duly appreciated by the members.

The same department has been assisted by a valued coadjutor, Gideon Mantell, esq. of Lewes, whose discovery of the fresh water beds inclosing the remains of Saurian animals of gigantic extent, will render *his* name sacred, in conjunction with the illustrious Cuvier in this pleasing and intricate science. Great interest will also be attached to the beautiful collection of fossils from the neighbourhood of Grignon; they were presented by the Rev. G. R. Leathes, of Shropham Hall, Norfolk, and collected wholly by him during a scientific excursion in the past season. The perfect state of preservation in which shells from this neighbourhood are found (every line and marking being complete), will ever render the fossils of these strata objects of interest in museums. The Green-Sand fossils (many of which are undescribed) were obtained by some exchanges with Mr. Hills, of Courtup-street.

Many new Shells have been placed in the cases devoted to Conchology illustrative of the Linnaean arrangement, and a new case has been added for the purpose of exhibiting a single specimen of each of Lamarck's classes, families, and genera. This will prove a valuable reference for all students in geology and conchology, as it illustrates the system generally adopted by the continental writers on those subjects. Many of the rarer specimens are presents to the society, expressly for the purpose, by the Rev. G. R. Leathes. The Society is also much obliged to Mr. Thornton, of Cheshunt, for a pair of splendidly polished

specimens of *Haliotis gigantea*, and two of *Nautilus imperialis*—and to Mrs. Robert Small, of Ramsgate, for some valuable foreign specimens.

The society has also received a present of considerable value from Mr. Henry Weekes, and one that possesses an interest distinct from the consideration of it as a specimen of art, it being a most striking likeness of one of the patrons of the institution, the Right Hon. Earl Darnley.

Through the liberality of one of the honorary members, E. S. Curling, esq. a new feature has been added to the Museum, at once brilliant and distinct from every other. The large window overlooking the Sun-yard has been entirely fitted with ancient painted glass, which at once forms a perfect screen to the roofs of the surrounding houses, and creates, by the diversity of its subjects and the brilliancy of its colours, an intense interest. The glass is chiefly by German and Dutch artists, and was painted at a time (about two hundred years since) when good drawing was understood, and the method of painting in vivid colours not lost. Even in this brief outline the following subjects claim particular notice:—The pictures that attract, on account of their designs and grouping, are *Susannah and the elders*—the good Samaritan—and the entombing of our Saviour. As individual studies—our Saviour bearing the cross and crowned with thorns—a Pope and his nuncio—and Jesus in the bloody sweat. Also one of a satyric character—Satan behind three monks in hoods, whom he is in the act of seizing with a diabolic grin. In addition there are two familiar subjects, representing Agriculture and Distillation, in the Dutch costume of 1600, that are highly interesting.

The society may feel assured that they have not yet derived all the advantages that may reasonably be expected

from the recent exertions of their curators, as they have opened communications with gentlemen resident at New Holland, Mexico, Demerara, Cape of Good Hope, &c. from whom additions in many of the departments of science may be sanguinely anticipated.

From the high commendation expressed by scientific persons concerning the arrangements in the Museum, the directors and curators are assured that the members generally will feel proud in giving their support to an Institution, the utility of which is so generally acknowledged.

LIST OF DONATIONS

TO THE

MUSEUM.

MAMMALIA.

Delphinus Delphis (Dolphin)
Mus Sylvaticus (Field Mouse), variety, stuffed
Skin of American Wild Cat

Donors.

Mr. W. Keep, sen.
Mr. Neame
Mrs. Sutton

BIRDS.

Anas Clangula (Golden Eye), and twelve
foreign Birds' Skins from Nepal, East
Indies, comprising specimens of an unde-
scribed Bustard, an undescribed Partridge,
&c. &c.

Pelecanus Carbo (Cormorant), young
Turdus Torquatus (Ring Ouzel)—Oriolus
Baltimorus (Baltimore Oriole), two speci-
mens—and Motacilla Cyanea (Superb War-
bler

B. Hodgson, esq.
Mr. McKenna

Colymbus Stellatus (Speckled Diver)—and
Anas Querquedula (Garganey)

Phasianus Gallus (Cock), stuffed

Picus Viridis (Green Woodpecker)

Fringilla Amandava (Amaduvade Finch)

Falco Lagopus (Rough-legged Falcon), stuffed
—Loxia Coccothraustes (Hawfinch), stuffed
—and 32 Birds' skins, principally from
New Holland and North America, com-
prising specimens of Alcedo Fusca (Great
Brown Kingfisher)—Psittacus Concinnus
(Crimson fronted Parakeet)—Gracula Quis-
cala (Purple Grackle)—Alca Arctica (Puffin)
—Ampelis Garrulus (Carolina Chatterer),
male and female—Merops Corniculatus
(Horned Bee Eater)—Hooded Bee Eater
—Blue cheeked Bee Eater—Frontal Shrike,
&c. &c.

R. Frend, esq.

Mr. E. P. Thompson
Mr. Thomas Ridout
Mr. R. Turley
Mr. J. C. Claris

Diomedea Exulans (Wandering Albatross)

Larus Marinus (Great black backed Gull),
young

Ampelis Garrulus (Waxen Chatterer), male
and female

Tetrao Scoticus (Red Grouse), male and fe-
male—Pelecanus Carbo (Cormorant)

Anas Nigra (Scoter)

Mr. J. Gould
Captain E. Gimar

R. Tomson, jun. esq.

Mr. W. Harris

Mr. S. Jones
Mr. R. Freeman

Anas Marila (Scaup Duck)—*Anas Crecca* (Teal)—and *Tringa Pugnax* (Ruff), winter plumage
Strix Otus (Long-eared Owl)
Ardea Stellaris (Bittern)
Alauda Arvensis (Skylark) light coloured variety
Motacilla Troglodytes (Wren), stuffed
Ardea Stellaris (Bittern)
Mergus Merganser (Goosander), male and female, stuffed
Phasianus Colchicus (Common Pheasant), ring-necked variety
Mergus Merganser (Goosander) stuffed
Alauda Pratensis (Titlark), light coloured variety, stuffed—*Fringilla Canaria* (Canary Finch), buff coloured variety, male and female
Mergus Merganser (Goosander)—*Hæmatopus Ostralegus* (Pied Oyster Catcher)—and *Motacilla Regulus* (Golden Crested Wren)
Columba Domestica (Pigeon), almond tumbler variety, stuffed
Hæmatopus Ostralegus (Pied Oyster Catcher)
Picus Auratus (Gold-winged Woodpecker), and two other foreign Skins
Charadrius Pluvialis (Golden Plover), summer plumage, stuffed—*Pipra Striata* (Striped-headed Manakin)—and *Muscicapa Malachura* (soft-tailed Flycatcher), two specimens
Anas Albifrons (White-fronted Goose), stuffed
Tringa Pugnax (Ruff), young, stuffed
Oriolus Phœniceus (Red-winged Oriole), two specimens
Tringa Interpres (Turnstone), young, stuffed
Picus erythrocephalus (Red-headed Woodpecker), two specimens—and two other foreign Skins
Anas Discors (White-faced Duck), female, or blue-winged Teal—*Motacilla Sialis* (Blue Warbler), two specimens—and *Oriolus Varius* (Chesnut and Black Oriole)
Corvus Cristatus (Blue Jay) two specimens—*Certhia Novæ Hollandiæ* (New Holland Creeper)—and blue-cheeked Bee-Eater
Trochilus Amethystinus (Amethystine Humming Bird), two specimens
Phasianus Pictus (Painted or Gold Pheasant), stuffed
Tetrao Tetrix (Black Grouse), stuffed
Fringilla Spinus (Siskin)
Psittacus Banksii (Banksian Cockatoo), stuffed

Mr. J. Wood

Mr. W. Hills

Mr. J. Leese

Thomas King, esq.

Mr. F. Brent

Mr. T. Cowtan, jun.

W. H. Furley, esq.

G. C. Oxenden, esq.

W. Collard, esq.

Mr. Pool

Mr. W. H. Weekes

Mr. C. A. Friend

Mr. W. Kemp

Mr. W. Masters

Mr. W. Beer

Captain Gunnell

George Plomer, esq.

G. Plomer, jun. esq.

S. Kingsford, esq.

Mr. Smithson

Mr. C. Weekes

Mr. Budden.

Mr. Palmer.

Dr. Chisholm.

E. Quillinan, esq.

Messrs. J. & W. Masters.

R. Gunnell, esq.

Pipra Punctata (Speckled Manakin)—and
 Alcedo Torquata (Cinereous Kingfisher)
 Emberiza Oryzivora (Rice Bunting), two
 specimens
 Emberiza Cyanea (Indigo Bunting), two
 specimens
 Two foreign Orioles
 Two Humming Birds, and another foreign
 specimen
 Bohemian Pheasant, and Pheasant bred be-
 tween the gold and common kinds
 Lanius Excubitor (Great Strike), stuffed
 Rallus Crex (Land Rail)

Mr. J. Friend.

Mr. Cottrell.

Mr. J. Pout.

Mr. Nisbett.

Mr. Hart.

Rt. Hon. Earl Darnley.

Mr. Dix.

Mr. F. Collard.

REPTILES.

One foreign Snake
 Coluber Natrix (common Snake)
 Various specimens of foreign Snakes

Mr. W. H. Weekes.

Mr. W. Brent.

E. S. Curling, esq.

INSECTS.

100 Specimens France
 40 Ditto British
 120 Ditto Ditto
 20 Ditto Ditto
 Lucanus Cervus (Stag Beetle)
 Phalœna PAVONIA Minor (Emperor Moth)

Rev. G. R. Leathes.

Mr. E. P. Thompson.

Mr. A. Matthews.

Mr. G. Newport.

B. Hodgson, esq.

Messrs. J. & W. Masters.

SHELLS.

40 Foreign Specimens, illustrating as many of
 the Genera of Lamarck
 Two polished specimens of Nautilus Impe-
 rialis, and two ditto of Haliotis Gigantea
 Nine foreign specimens—Mytilus Modiolus,
 Newfoundland; Strombus Chiagra; Sep-
 taria, &c.
 Three foreign specimens—Venus Dione
 One ditto—Venus Chione
 Four ditto—Arca Indica, and Ostrea
 Six ditto—Portugal
 Four Specimens
 Various Specimens—Guernsey
 Various foreign Specimens

Rev. G. R. Leathes.

Mr. Thornton.

Mrs. W. Masters.

John Miller, esq.

Rev. A. Power.

Mrs. Small.

H. Boys, esq.

Miss E. Davey.

J. Jacob, esq.

Mrs. Robert Small.

ZOOPHYTES.

Two specimens of Coral
 Specimen of funnel-shaped Sponge

Mr. Burnby.

Mr. Nisbett.

COMPARATIVE ANATOMY.

Head and Horns of the Antelope—Cape of
 Good Hope
 Terminal portion of the frontal bone of the
 Saw-Fish
 Foot of the Albatross
 Tooth of the Rhinoceros
 Pair of Tusks of the Boar

Rev. Mr. Thomson.

Mr. Brown.

Mr. W. H. Weekes.

{ Capt. Marryatt, 12th
 { Lancers.

Mr. Pool.

VEGETABLES.

Specimen of the double-fruited Cocoa Nut

Capt. Evans. W. K. M.

FOSSILS.

- 7 Chalk Fossils—part of the Rib of a Whale from the Chalk—eight specimens of Fossils from the Tilgate Beds, including two Teeth of extinct species of Lizards
- Large specimen of Fossil Tortoise—Harwich; and Fossil Bone of the Mammoth—Tocayma, Colombia
- 1 Large Fossil Shell (undescribed Pinna from the Green Sand)
- 4 Fossil Echini
- 5 Specimens of Fossil Wood—two Fossil Teeth
- 5 Fossils
- 4 Ditto
- 1 Ditto
- 12 Ditto
- 5 Ditto
- 1 Fossil Tooth
- 52 Specimens of Chalk Fossils
- 5 Fossil Echini
- 1 Maestricht Fossil, and mass of Terebratulæ, Encrinurites and Corals—Bradford
- 1 Fossil Tooth

G. Mantell, esq.

Sir J. M. Tylden.

Mr. W. Hills.

Mr. S. Wright.

S. Kingsford, esq.

Edward Toker, esq.

C. Wrench, esq.

Miss Plumtre.

Rev. A. Power.

Mr. G. Philpot.

Mrs. Reynolds.

Mr. R. Ashdowne.

Mr. R. G. Davey.

B. Hodgson, esq.

Thomas Foord, esq.

MINERALS.

- 34 Specimens
- Collection of specimens of the Medial and Supermedial Orders of Stratification of England, collected by the Secretary of the Geological Society
- 6 Specimens of Stones (five of them carved) from the foundation of Ethelbert's Tower—and 50 Minerals
- 8 Polished specimens of Marbles
- Collection of Welch Pebbles
- 35 Specimens—North America
- 2 Ditto
- 1 Ditto
- 1 Ditto, Alum
- 5 Ditto
- 6 Ditto
- 2 Ditto
- 53 Ditto
- 1 Ditto, Clay variegated with Oxide of Manganese
- 2 Ditto, Iron Sandstone
- 1 Ditto

Ed. Toker, esq.

Mr. and Mrs. Wright.

R. Friend, esq.

Mr. H. Weekes.

Mrs. Evans.

Sir J. M. Tylden

Miss Plumtre

C. Wrench, esq.

Mr. Nisbett.

Miss S. P. Gravener.

Mr. C. Philpot.

Mr. R. G. Davey.

J. Jacob, esq.

B. Hodgson, esq.

Mr. Andrews.

Thomas Foord, esq.

COINS, &c.

- 4 English Silver Coins—4 Spanish Dollars—
2 English and 2 French Copper—5
Copper Tokens

Mr. R. Harman.

- | | |
|--|---------------------|
| 1 Portuguese Silver | Miss B. Watson. |
| 1 Roman Copper | Mr. Nutt. |
| 1 English and 1 Russian Copper—1 French Bell-metal | Mr. T. Davey. |
| 2 Copper Medals | Mr. S. Tyson. |
| 1 Roman and 1 English Copper | Mr. J. Weeks. |
| 1 Portuguese Silver | Mr. Ald. H. Cooper. |
| 1 Queen Anne's Farthing (Coronation Coin) | Mr. J. Marsh. |
| —1 Token of Wilkes | Mr. Finn. |
| 1 Roman Copper | Mr. E. Minter. |
| 4 Roman, 3 Russian, 1 Portuguese, and 1 French Copper—7 Tokens | E. S. Curling, esq. |
| Medal of Strasburg Cathedral | |

ILLUSTRATIONS

OF THE MANNERS AND CUSTOMS OF DIFFERENT NATIONS.

- Spur taken from the foundation of that part of the City Wall, Canterbury, built by Archbishop Sudbury, in the reign of Richard II.
 —Spur belonging to a jack-boot taken with Buonaparte's carriage at Waterloo
 One Bow, two Arrows

- Mr. Thomas Davey.
 { Capt. Marryatt, 12th
 { Lancers.
 Mr. W. Goulden.
 Mr. Thomson, jun.
 Mr. Bird.
 John Miller, esq.
 Mr. A. Reed.

- Two Arrows
 Three Arrows—East Indies
 Old English Purse
 Barbary Pipe
 Antique Sabre

MISCELLANEOUS.

- Model of the Nautrochus (Carriage to be impelled by wind)
 Models of the Kent Plough and Harrow
 Ancient Earthen Vessel
 Part of an Antique Font—and Ancient Key found in the garden of Maynard's Spital, Canterbury
 Egg of the Foolish Guillemot (Colymbus Troile)
 Large Lobster, with Oysters which naturally fixed themselves on the back and claws
 Antique Key found in a garden near St. Augustine's Monastery
 Three specimens of Native Silk
 Plaster Cast of an ancient Silver Seal found under the Church of St. Mary le Bow, London, when taken down for the purpose of re-building.

- G. C. Oxenden, esq.
 Mr. Mercer.
 Mr. Beauvois.
 R. Friend, esq.
 Mr. Royce
 Thomas Foord, esq.
 Mr. Nettle.
 Mr. C. A. Friend.
 Thomas Lott, esq.

WILLIAM MASTERS, Curator.
 JOHN FRIEND, Secretary.

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Mr. Alderman J. S. Browne	Mr. W. Philpot
Mr. Alderman M. Cowtan	Mr. G. Ash
Mr. Alderman W. Homersham	Mr. J. T. Linford
Mr. Alderman W. Jones	Mr. W. Beer
Mr. Alderman G. Frend	Mr. W. Masters
Mr. Alderman H. Copper	Mr. H. K. Nisbett
Mr. Alderman O. Snoulten	Mr. T. Wilkinson

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 Treasurer—Mr. C. Weekes
 Librarian—Mr. J. Pout
 Guardian of the Apparatus—Mr. S. Phillips
 Collector of Subscriptions—Mr. T. Davey

Officers of the Museum.

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R. Chisholm, esq. M.D.	O. Snoulten, esq. Alderman
W. H. Baldock, esq. M.A.	G. C. Oxenden, esq.

Curator—Mr. W. Masters, F.H.S.

Sub-Curators.

Mr. W. H. Weekes	Mr. W. Brent
Mr. F. Giraud	Mr. John Brent, jun.
Mr. E. F. S. Reader	Mr. G. Newport
Mr. J. Friend	

Secretary—Mr. John Friend
 Treasurer—Mr. Capon Weekes
 Exhibitor—Mr. Thomas Davey

Committee appointed for the year ensuing.

Mr. Alderman Snoulten	Mr. John Brent, jun.
Mr. Alderman Henry Cooper	And the following Members, by
John Brent, esq.	virtue of their Offices:—
Mr. William Brent	Mr. Thomas Wilkinson
Mr. William Taylor	Mr. William Masters
Mr. Thomas Hart	Mr. John Friend
Mr. Thomas Read	Mr. Capon Weekes
Mr. John Weeks	Mr. John Pout
Mr. Henry King Nisbett	Mr. Solomon Phillips

Honorary Members.

John Haviland, esq. M.D. Regius Professor of Physic in the University of Cambridge
 John Kidd, esq. M.D. Regius Professor of Physic in the University of Oxford
 The Reverend William Buckland, D.D. Professor of Mineralogy, Oxford
 The Right Honourable Lord Tenterden, Lord Chief Justice
 Sir Anthony Carlisle, F.R.S. Surgeon Extraordinary to the King
 General Miller
 Captain Boteler, R.N.
 Gideon Mantell, esq. Lewes, F.R.S.
 Godfrey Higgins, esq. F.S.A.
 Edward Spencer Curling, esq.
 Mr. Henry Weekes, Sculptor

Members for Life.

The Right Honourable the Earl of Darnley
 The Right Honourable the Earl of Guilford
 The Right Honourable Lord Sondes
 The Right Honourable Lord Clifton, M.P.
 The Right Honourable S. R. Lushington, M.P.
 Joseph Royle, esq.
 Thomas Foord, esq.
 John James Peirce, esq.
 John Brent, esq.
 Thomas Lever Burch, esq.
 Mr. Alderman Henry Cooper
 Mr. John Brent, jun.
 Mr. William Masters
 Mr. George Ash
 Mr. George Dewell Keen
 Mr. William Beer
 Mr. Robert Ashdowne

Ladies.—Annual Subscribers.

The Right Honourable the Countess of Guilford
 Miss Kenrick
 Mrs. W. Masters
 Miss Masters
 Miss Christian
 Miss Read

Members.

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Baker, Thomas	Beasley, Edward
Baldock, William Henry	Bellingham, Frederick
Barrett, Colonel	Bellingham, John
	Bilbe, John

Bland, William
 Bowman, William
 Boys, Edward
 Brammall, Rev. D.
 Brent, William
 Browne, Alderman J. S.
 Browne, C.
 Brydges, Rev. A. Egerton
 Budden, John
 Bunbury, T. B.

Carter, H. W., M.D., F.R.S.E.
 Chapman, Garmstone
 Chisholm, Robert, M.D.
 Christian, Henry
 Christian, Henry, jun.
 Cock, Richard
 Cooper, Alderman John
 Cottrell, C. C.
 Cowtan, Alderman Mawer
 Cowtan, Charles
 Crux, Henry

Davey, Thomas
 Delmar, William
 Dorman, Thomas
 Doddridge, Henry

Eyles, J. E.

Fletcher, William Henry
 Fletcher, Edmund
 Fletcher, Richard
 Flint, Abraham
 Flint, Benjamin
 Flint, Frederick
 Foreman, William
 Friend, Alderman Richard
 Friend, Alderman George
 Friend, William
 Friend, John,

Gardner, Robert, jun.
 Garrow, Sir William
 Giraud, Frederick
 Goodban, Charles
 Gregory, Rev. Edward
 Gregory, George

Hacker, Thomas
 Halford, Richard
 Hart, Thomas
 Hills, William
 Hodgson, Brian

Hohler, W. F.
 Homersham, James, jun.
 Horton, John
 Houghton, John
 Huntley, William
 Hurst, George

Jackson, Joseph
 Jones, John Gera
 Jones, Rees

Keeler, Edward
 Keen, Henry
 Keen, Albert
 King, Samuel
 Kingsford, Edward
 Kingsford, Sampson
 Kingsford, Henry

Lamb, Richard
 Lacey, Rev. H.
 Lee, Richard
 Linford, John, T.

Marlen, Henry
 Marshall, Charles
 Marsh, Rev. G. P.
 Marten, John
 Miller, John
 Minter, John
 Molesworth, Rev. J. E. N.
 Moss, George
 Moses, John Norris
 Moulden, Thomas

Neame, George
 Newport, George
 Nisbett, Henry King

Oakley, John
 O'Brian, Bartholomew
 Oxenden, Sir Henry, bart.
 Oxenden, George C.

Parker, Jesse
 Partridge, John
 Phillips, Solomon
 Philpot, William
 Philpot, George
 Philpot, Charles
 Plummer, Edward
 Pout, John
 Pratt, Henry

Quillinan, Edward
Quin, Rev. J.

Read, Thomas
Read, George
Reader, E. F. S.
Ridout, Thomas
Robinson, G. Smyth

Sankey, Robert
Sharpe, William (Longport)
Sharp, William (St. George's)
Shindler, Robert
Smith, Henry, jun.
Smithson, W. M.
Snoulten, Alderman Osborn
Southee, Edward
Stead, Captain

Stead, William
Sturgess, Thomas

Taylor, William
Terry, Thomas
Thompson, Edward P.
Thornton, Henry G.
Turmaine, George,
Tylden, Sir J. M.
Tyson, Stains

Warman, H.
Weeks, John
Weekes, Capon
Weekes, William Henry
White, William
Wildish, W. Dilnot
Wilkinson, Thomas



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Figure 1. The effect of the concentration of the Ca^{2+} solution on the Ca^{2+} concentration in the Ca^{2+} solution. The Ca^{2+} concentration in the Ca^{2+} solution was 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 10.0, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 11.0, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9, 12.0, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 12.8, 12.9, 13.0, 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8, 13.9, 14.0, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7, 14.8, 14.9, 15.0, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7, 15.8, 15.9, 16.0, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7, 16.8, 16.9, 17.0, 17.1, 17.2, 17.3, 17.4, 17.5, 17.6, 17.7, 17.8, 17.9, 18.0, 18.1, 18.2, 18.3, 18.4, 18.5, 18.6, 18.7, 18.8, 18.9, 19.0, 19.1, 19.2, 19.3, 19.4, 19.5, 19.6, 19.7, 19.8, 19.9, 20.0, 20.1, 20.2, 20.3, 20.4, 20.5, 20.6, 20.7, 20.8, 20.9, 21.0, 21.1, 21.2, 21.3, 21.4, 21.5, 21.6, 21.7, 21.8, 21.9, 22.0, 22.1, 22.2, 22.3, 22.4, 22.5, 22.6, 22.7, 22.8, 22.9, 23.0, 23.1, 23.2, 23.3, 23.4, 23.5, 23.6, 23.7, 23.8, 23.9, 24.0, 24.1, 24.2, 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, 25.0, 25.1, 25.2, 25.3, 25.4, 25.5, 25.6, 25.7, 25.8, 25.9, 26.0, 26.1, 26.2, 26.3, 26.4, 26.5, 26.6, 26.7, 26.8, 26.9, 27.0, 27.1, 27.2, 27.3, 27.4, 27.5, 27.6, 27.7, 27.8, 27.9, 28.0, 28.1, 28.2, 28.3, 28.4, 28.5, 28.6, 28.7, 28.8, 28.9, 29.0, 29.1, 29.2, 29.3, 29.4, 29.5, 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.3, 68.4

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

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1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

Journal of Management Education 30(6)p.789-804

ANNUAL REPORT
OF THE
Canterbury
PHILOSOPHICAL & LITERARY
INSTITUTION,

Presented at the
ANNUAL GENERAL MEETING,

28th SEPTEMBER, 1830.

Labitur, et labetur in omne volubilis ævum.

PATRONS,

The Right Worshipful the MAYOR of CANTERBURY,
(for the time being)
The Right Honourable the EARL of DARNLEY.
The Right Honourable the EARL of GUILFORD.
The Right Honourable LORD SONDES.
The Right Honourable VISCOUNT FORDWICH, M. P.
The Right Honourable LORD CLIFTON.
The Right Honourable S. R. LUSHINGTON.
The Honorable RICHARD WATSON, M. P.
Sir EDWARD KNATCHBULL, Bart. M. P.
THOMAS LAW HODGES, Esq. M. P.
W. P. HONYWOOD, Esq.
JOSEPH ROYLE, Esq.
W. H. BALDOCK, Esq.




CANTERBURY :

Printed by Elizabeth Wood, No. 9, High Street.

Report of the Committee.

The Committee beg to submit to the Members a Summary of the Lectures which have been delivered since the last Annual General Meeting,---an Account of the Treasurer's receipts and disbursements,---and of the presentations to the Library.

The Lectures during the past year have been attended by the members and visitors as constantly and numerously as in any preceding year; and an attentive review of the Summary will evidence the exertions of the Lecturers, to whom the best thanks of the members are especially due. The subjects treated of, range through the most interesting departments of Science and Literature, and the amount of useful information which has been disseminated, or at least, to which attention has been directed, cannot have been unattended with its resulting benefits.

The Committee are gratified in being able to state, that the recess during the months of July, August, and September, does not appear to have been detrimental to the interests of the Institution. They consider it as affording a respite to the Lecturers, and as giving an additional impulse to exertion, and a degree of freshness to the business of the Institution which would not be induced by one continued course of labour and attention. The Lecture Card for the ensuing quarter shews the exertions of the Lecturers to be unremitted.

With regard to the Treasurer's account, the Committee feel much satisfaction in informing the Members, that from their having received several liberal donations they have been enabled to discharge many heavy bills of long standing. The state of the last year's receipts and payments will appear

by the abstract of the Treasurer's account, which is more favorable than in any former year.

Several valuable donations have been made to the Library which are particularly enumerated in the Librarian's Report. Amongst those most valuable are---the presentations by Sir John Maxwell Tylden, of The Philosophical Transactions of the Royal Society of London from 1820 to 1828, 20 parts 4to., to which that gentleman has been pleased to signify his intention of adding the continuation to the present time; it is needless to dwell on the value and importance of this presentation;---by Thomas Noble Elwin, Esq. of Albemarle Street, London, of Lord Clarendon's History of the Rebellion, 4 vols. folio;---and by Mr. George Kirkby, of Captain Parry's Voyages to the North Pole, 2 vols. 4to. Further donations of Books have been promised by several Noblemen and Gentlemen, and it is hoped that the exertions of the Members and Friends of the Institution will render this department equal to the others in respectability and usefulness. Its augmentation and improvement are particularly desirable, and it is submitted, may be effected by united effort at an inconsiderable sacrifice of trouble and expence, which the apparent advantages will amply compensate.

While begging to refer the Members to the Report of the Directors and Curators with respect to the Museum, the Committee with much pleasure notice, that another Window of rich and valuable stained glass has been added to the Museum Room by the liberality of Edward Spencer Curling, Esq. of Deal. This with the one previously presented by that gentleman, while it adds a degree of splendour to the appearance of the room, also screens the sight of the contiguous buildings.

The Committee have much pleasure in stating that the Gate of St. Augustine's Monastery is now, by the subscription raised for that purpose under the auspices of the Institution, repaired in so effectual a manner as to ensure its preservation for many succeeding years. While devoted to the dissemination

of knowledge it is gratifying to find that the Institution has been instrumental in rescuing this elegant monument of former years from total decay. Thus is preserved to the City one of the few remaining evidences of its antiquity---and to the historian and antiquary an object worthy of their study and admiration.

The Committee are gratified in announcing that the Right Honorable Viscount Fordwich, M. P., the Honorable Richard Watson, M. P., and William Henry Baldock, Esq. have been pleased to forward donations to the funds, and to place their names amongst those of the other Patrons of the Institution. Also that since the last Annual General Meeting a large accession of new Members has been obtained.

The Committee in surrendering the authority delegated to them, express their hope that their exertions during the past year have been satisfactory. The year has been one in which the establishment has received encouragement and support of a most flattering nature. The exertions made in its behalf---the advantages to be derived from it---and the basis of public utility on which it is founded, begin now to be more fully appreciated. Its local position, however, should not be the only incentive to its support : it should be regarded in connection with other similar Institutions, whose influence will extend not only through this, but through other countries, and whose object and tendency is, by the cultivation and dissemination of useful knowledge, to raise mankind in the scale of moral, intellectual, and social worth.

S U M M A R Y

OF THE

LECTURES

Delivered since the last Annual General Meeting.

1829—September 20.—The Rev. J. Quin delivered a Lecture on the Rise and Progress of the Saracen Empire.

The Lecturer noticed the commencement of the Saracen Empire in the 7th Century, and took a brief survey of the Country of Arabia, and of the character of the person through whose instrumentality a revolution was effected in the manners, customs, religion, and even language, of nearly a third of the then known world.—He then mentioned several particulars in the political and social economy, and the civil and religious institutions of the Arabs and their neighbouring States; traced the promulgation of their religious doctrines and opinions; the rapidity and extent of the Conquests of Mahommed and his Successors; and touched upon the division of the Saracen Empire into several Independent States.

The Rev. Gentleman then inquired into the causes which facilitated the progress of that astonishing people, history presenting no parallel in grandeur and magnificence to the rise and rapid advancement of the Saracen power and opinion. He drew a comparison between the Saracen, Macedonian, and Roman Empires.—The power of the Arabs in one Century was acknowledged from the Pyrennean Mountains to the Shores of the Indies, and a complete change was effected in the laws, the customs, the religion, and even the language of that extensive tract of the Globe. Amongst the causes which led to this sudden and unparalleled revolution, he particularized, the partial dissolution of the Roman Empire,—the conquest of the Western World by the barbarous nations of the North,—whilst the Emperors of the Eastern Division of the Empire were lost to the honorable ambition of preserving their political ascendancy, being sunk in sloth and indolence, and abandoning all political and civil cares to controversial disputes on the christian

religion;---and the galling imposts on the provinces in so great a degree as to induce the subjects to request the aid of the Saracens to their relief.---He contrasted the military virtues of the Saracens with those of the Byzantine Emperor and people; the peculiar religious notions of the former aiding their martial character.

He then directed attention to the remarkable circumstance of the prevalence of the Mahomedan religion and its general adoption; to the many and important effects of the establishment of the Saracen Empire in Europe on the political and social fabrics of the contemporary States; and to the rapid advancement of the Saracens, when the age of rapine and bloodshed had yielded to that of peace and tranquility, in arts, science, and literature; mentioning the obligations of European States, and of the learned World generally to them, as in many of their Sciences may be traced the origin of discoveries of which later ages have reason to be proud.

October 6.---Mr. Warman delivered a Lecture on the rise and progress of the Electric Science.---He stated the fundamental principles of the Science, and performed many experiments illustrating the causes of electrical attraction and repulsion, and distinguished the difference between positive and negative Electricity. He next gave a brief history of the Science from the time of Thales, shewing the result of discoveries in the construction and improvement of the present Electrical Machine, which was explained, together with a considerable portion of the apparatus.---Mr. W. then took a retrospective view of the progress of the Science from the time of the Milesian Philosopher to the present.

October 13.---The Rev. H. Lacey delivered a Lecture on the origin and progress of the Arts.---The Rev. Gentleman took a comprehensive view of the origin of the common and useful arts of life, shewing that they resulted not so much from the contemplation of animal instinct, as from the exercise of the rational powers of the mind in the endeavour to compensate for the pressing wants of man in a state of nature. He then treated particularly on some of the necessary Arts. The art of preparing food led the way to many observations on the state of agriculture in different countries at early periods of time, especially in Britain, in the Roman, Saxon, and Norman times.---The influence on Agriculture of the feudal polity was noticed, and the improvement of that art during the Commonwealth. He then treated of the art of defence, describing some of the instruments of defence and offence, in many ages and countries, and noticing the cross-bows of the English, and the difference in the

system of warfare since the invention of Gunpowder ; and gave some general remarks on the Art of Fortification. The Lecture concluded with observations on the Art of Clothing. and under this head many particulars of interest were stated, affording gratifying reflections to the contemplative mind on the degree of increased comfort enjoyed at the present time, when compared with the helplessness of man before art afforded its aid to ameliorate his natural condition.

October 20.---Mr. William Brent delivered a second Lecture on Amphibia, the third class of the Linnæan Arrangement.---He recapitulated the heads of his former Lecture, in which the first three Genera of the first order, Reptilia, viz :---Testudo, Rana, and Draco, were severally treated of.---In this Lecture the two remaining Genera, Lacerta and Syrene, were respectively examined, and many of the species of this division of the subject described, and their habits and economy explained.---The Lecture was illustrated by numerous specimens from the glass cases of the Museum.

October 27.---Mr. Wilkinson delivered a Lecture on the Invention of Printing. After giving an appropriate introduction, he set forth the imperfect means of literary communication amongst the Greeks and Romans, and during the dark and middle ages. He then treated on the production, and the loss of manuscript books, noticing the discovery of manuscripts, and the restorers of classical Literature in the middle ages. He traced the first efforts towards the invention of the Art, glanced at its early history and its introduction in the continental kingdoms of Europe. He then particularly alluded to its introduction into Britain by Caxton, giving some interesting biographical notice and particulars of his life and labours, and after a summary of his subject, concluded the Lecture with an address shewing the advantages which had arisen by the invention of the Art, to Science and Literature, and to the general interests of mankind.

November 3.---Mr. Marten continued his course of Lectures on Ethics.---On this occasion he briefly considered the systems of Mandeville, Hobbs, and Clarke, which were all deemed inconsistent with fact and observation. He afterwards dwelt more largely on the hypothesis of Hume, commonly called the doctrine of utility.---This system was also deemed false, since men do not generally applaud their fellow men for moral worth according to the largeness of their gifts, but according to the feeling by which they are actuated in the bestowment of them.

November 10.---Mr. John Brent, Junior, delivered a Lecture on the Literature of the Ancient Greeks, which he commenced with remarks on the early influence of Poetry, its antiquity in respect to other branches of Literature, and the perfection to which it arrived in the warlike and heroic ages amongst the Countrymen of Homer. A brief account was then given of the writings of those Poets, to whom Greece owed so much of her fame and glory in after times. The Drama of the Ancients came next under review, and the splendid creations of Æschylus were contrasted with the dramatic excellencies of Sophocles. This part of the subject was concluded with remarks on Euripides, and other tragic poets. The Old Comedy was then described, together with the productions of Aristophanes and other successful writers in this department of Literature. The Lecturer concluded his subject by giving examples, original and selected, illustrative of the nature and excellence of the Ancient Greek Drama.

November 17.---Mr. W. H. Weekes delivered a Lecture on the Phenomena exhibited by Oxygen in combination with Metals.

After some prefatory observations, Mr. W. said he intended to occupy the attention of the Institution that evening, by examining minutely into the phenomena which obtain from a union of the Metals with the elementary body called Oxygen, from the combination of which arose a most interesting and valuable class of forms denominated Oxides. In the present state of our knowledge we were necessitated to consider the various metals as simple, or elementary bodies, but capable, notwithstanding, of uniting with numerous other substances, both gaseous and solid. With chlorine they formed chlorides; with sulphur, sulphurets; with phosphorus, phosphurets, &c., with carbon they constituted carbonates; and variously acted upon by oxygen they produced that extensive diversity of compounds, which would form the subject of the evening's enquiry. The lecturer then explained by several familiar examples, the formation of oxides by the hand of nature, and after illustrating the terms employed to distinguish the several degrees of oxidation, agreeably to the generally received nomenclature, he proceeded to treat his subject under three principal divisions.

I.---On the Artificial production of Oxides. In this division the principal experimental demonstrations were, the combustion of zinc in an atmosphere of oxygen and its consequent conversion to a singular and beautiful substance known by the familiar name of "Philosopher's Wool."---

Increase in the weight of Metals during combustion in oxygen, by their chemical union with the gas. The complete combustion of a large file from a burning jet of the mixed gasses, was effected during one of the experiments occurring in this division of the subject.

II.---On the conversion of Metals to Oxides by the decomposition of some compound body in which oxygen is present.

Under this head was exhibited the decomposition of water by red hot iron and the consequent formation of an oxide of Metal, as well as the liberation of hydrogen gas from the water. It was also shewn that a small proportion of Nitrogen is generally produced during processes of this description, and the existence of which in the present instance was demonstrated by the proper tests. A variety of other experiments tended to elucidate the principle upon which oxides of the Metals obtain from the action of acids, water, &c. &c.

III.---In entering this division of his subject, the lecturer remarked that he should briefly direct the attention of the audience to a very interesting and useful application of chemical agency---the disengagement of oxygen from the various oxides and their restoration to the metallic form.

Among the experiments of this department we may notice the reduction to the Metallic state of various oxides and preparations of lead, iron, copper, and zinc, from the substances themselves and their several solutions---the reduction of solutions of gold and silver to their pristine metallic state, by the agency of hydrogen---the double affinity exhibited by the contact of different metals in the reduction of other bodies of the same class from their combination with fluids---the reduction of metals by galvanic action, &c. When the lecturer took occasion to illustrate the utility of this agent as a chemical test in detecting the existence of poisonous preparations of the metals. The lecture concluded by the introduction of a brilliant species of pyrophorus, prepared extemporaneously from the tartrate of lead.

November 24.---Mr. Warman delivered a Lecture on Horology, which he introduced with some opinions concerning the Horology of the Ancients prior to the use of mechanical time-keepers, and with remarks on their invention and history. A minute description of the clock was given under four heads.---1st. The moving power,---the action of the weight on the cylinder and first wheel and the concomitant operations of the other wheels were shewn. 2nd. The regulating power,---the method by which the gradual descent of the weight is regulated by the swing wheel and vibrating pendulum; the delicate construction of the compensating pendulums

of Harrison and M. Thiout; and the opposite tendencies of the compound metals in the gridiron pendulum in order to maintain an equilibrium in variations of temperature were carefully and clearly explained. 3rd. The revolving power,---the increase or decrease of revolution accounted for upon the principle of wheel work in general. And 4th.---The striking power, a most complicated and ingenious, though disregarded mechanical invention, and the simple though effective means employed to lift the detent at the precise time to give the proper indications of the definite hour were explained. That useful companion, the pocket watch, was next introduced, and the main spring as its moving power, the graduated fusee by which its unequal efforts were regulated and rendered subservient to a regular movement, and the regulating power, consisting of the balance, pendulum, spring and verge, were shewn and explained. The Lecturer illustrated his subject with appropriate time-keepers, a skeleton watch, and many of its component parts, and by his explicit manner of treating it conveyed to his audience a knowledge of one of the most useful exertions of mechanical genius.

December 1.---Mr. H. Christian, jun. delivered a Lecture on Physiology. He described the blood, its vital properties and on what they depend, its circulation and the manner in which it was carried on, and its chemical properties. Experiments were made to shew the different changes which that fluid undergoes in the lungs, and its use. A sketch was taken of the bones, their connection, use, structure, and situation; the powers which enable us to move, and the muscular action were shewn to depend on the medium of sensation---the nerves. The Lecture was illustrated by many preparations and specimens in comparative anatomy from the Museum.

December 8.---Mr. Wilkinson delivered his eighth Lecture on the History of England, which he endeavoured to illustrate by taking a view of arts, commerce, manners and customs from Henry 3rd. to Edward 4th. In reviewing the state of the arts he noticed Agriculture, sacred, civil, and military Architecture, the metallic arts, the invention of clocks of metal, the weaving art and those connected with it, the art of war and the revolutions effected in it by the invention of gunpowder and cannon; the fine arts of sculpture, painting, poetry, particularly the metrical chronicles and romances, and the attempt to revive the alliterative poetry of the Anglo-Saxons; Chaucer and Gower; sacred and secular music, and the invention of the musical scale. Internal and foreign commerce, the laws for its regulation and encouragement, the settlement of merchant strangers, and the balance of trade, were leading points in a cursory view of

the commerce of the period. The alterations caused by the conquests and settlements of the Romans, Saxons, Danes, and Normans, in manners and customs, were adverted to. The changes in them in the present period were attributed to circumstances and the gradual progress of society, and upon attentive examination would be found considerable and worthy of delineation. He then noticed the sudden changes in manners and customs evidenced by History; the influence of religion and its teachers on the people, their courage and bravery, unlimited hospitality, ostentatious gallantry, and irrational credulity; the decline of chivalry and its revival by Edward 1st. and 2nd. The corrupt and oppressive administration of Justice, the statutes of Champerty, and frequent robberies; and observing that religious liberty was then unknown, and civil liberty insufficient to defend the people from oppression, he introduced some general reflections on the state of society in the thirteenth and fourteenth centuries. He next offered some observations on the different languages used by the different orders of the people, Latin, Norman or French, Anglo-Saxon or English, on the purity of the Anglo-Saxon two hundred years after the conquest, its change in the fourteenth century, with the causes, into what he termed English, though difficult to be understood by modern English readers without a glossary; and on the various dialects and modes of pronunciation. The Lecturer concluded with some particulars relating to the extravagancies of dress, the ridiculous and inconvenient fashions, the sumptuary laws for their regulation and restraint, the amusements and other remarkable circumstances in the social and domestic economy of the period.

December 22, 23, and 24, Mr. Giles delivered a course of three Lectures on Astronomy, of which the following is a Synopsis:---

First Lecture---Definition of the Science---History and relative utility---Attraction---Laws of Motion---Simple and Compound Forces, in their application to the orbital and elliptical motions of the Planetary Bodies,--Various opinions respecting the form of the Earth---proved to be a Spheroid--Earth's motions determined---Spheroid of rotation proved to be oblate---size of the Earth. The Moon's motions---her size and distance---how found by her horizontal parallax. Moon's phases. The difference between a periodical and synodical month. Method of calculating the height of Lemar Mountains by the Micrometer. Probability of a Lunar Atmosphere, &c.

Second Lecture.--The Harvest Moon explained---Equation of Time. The Sun's size considered by comparison---his

spots---various opinions respecting them---Sun's revolution on his axis established---the different qualities of his rays---method of calculating his distance from the Earth. How the distance of all the Planets from the Sun, and their magnitude, are ascertained. Phenomena of the Planets---their Satellites---and the Asteroids severally explained and illustrated. Motion, refraction, and aberration of light. Comets---their orbits---motions and phenomena. Different systems of ancient Philosophers. Epicycloids. Solar System, &c.

Third Lecture.---Latitude and Longitude, how calculated. Comparative views of the Earth and Sun, introductory to a consideration of partial, total, and annular Eclipses. Spring and Neap Tides accounted for---apparent Anomalies explained. The Seasons---how produced.---The Zodiac, Galaxy, Nebulæ, Constellations, Theory of Fixed Stars, &c. &c.

The Lectures were illustrated by numerous and valuable illuminated Diagrams.

1830---*January* 12 and 19.---Mr. Hunt delivered two successive Lectures on Physiognomy. He commenced by glancing at the great importance of the knowledge of human character. He regretted that the study of Physiognomy which when properly conducted, he believed would be very conducive to this important end had been so much neglected of late, especially as it had obtained very general attention from nearly all the ancient philosophers. He accounted for its present disrepute on the ground of the misguided enthusiasm, false reasonings, and hypothetical propositions of Lavater. He expatiated on the importance of reducing the science to the principles of induction, and having shewn that the system of Lavater could not possibly be made to subserve such an object, he proceeded to state a series of facts, and to demonstrate, that from these facts as data, important and practical principles might be deduced. He represented Phrenology as a comparatively unimportant branch of Physiognomy, but uniformly used the term Craniology, which he conceived more correctly to express the studies which related to the form of the skull. He did not deny the *general* connexion which seemed to subsist between the development of that portion of the brain contained within the Os Frontis, and a corresponding degree of mental faculty; but refused to admit that a rule which had so many exceptions, could be correctly laid down as one of the fundamental laws which should compose the basis of a system. He contented himself with proving, that the ruling passion of every individual must of necessity give a peculiar prominence to those *muscles* of the face by the action of which the passion

is ordinarily expressed. He disproved the commonly received opinion that the principal expression of any passion is visible in the *eyes*, by exhibiting a copy of a beautiful and ingenious drawing by the lamented Sir Thomas Lawrence, (published in a paper by Dr. Wollaston in the *Philosophical Transactions*) in which, by applying alternately the same eyes to two different female faces, in the one instance the eyes seemed to express devout abstraction, in the other the laughing leer of inquisitive archness.

He endeavoured to demonstrate that Physiognomical knowledge is an instinct common to every human being, but more particularly developed in children. He expatiated largely on the various prejudices, prepossessions, and incorrect habits of thinking, by which this instinct is commonly enfeebled and abused; and observed that the principal aim in the study of the science should be rather to unlearn than to learn, rather to shake off these prejudices than to study the anatomy of the face. After describing various peculiarities of character, he exhibited at each description sketches which not only in every instance displayed a legible outline of the character delineated, but in many, proved that the outline was actually produced by the size of muscles increased (according to the laws of Physiology) by repeated or longer continued action. He cautioned his audience against mistaking the frown of commercial anxiety for the scowl of vicious passions; and having declaimed on the generality and folly of ambition, he advised those who wish to avoid the deformity of an anxious brow, to content themselves with their present condition, rather than expose themselves to disappointment. He firmly insisted on the possibility of the moral reformation of the worst of characters, and the consequent moral beauty which must after a time become visible in their features.

He gave a hasty sketch of the various peculiarities of national character, and those arising from temperament and idiosyncrasy, and then demonstrated the possibility of resolving every shade of difference into those which were marked on the features by the permanent condition of the muscular fibres, and by this alone.

January 26.---Mr. W. Masters delivered the first of a series of Lectures on Geology. He recapitulated and examined the different theories of the Earth, as propounded by various philosophers, and offered some remarks on the diversity and absurdity of some of the theories extant. He stated that it was not until Saussure explored the Alps of Europe on the principle of observation of facts that any solid information was obtained; his discoveries subsequently led the way to others of a most important nature. The effects of the muta-

tions caused by the ocean, by volcanoes, &c. were enquired into. The order of the superposition of the primitive strata was next shewn, and their peculiar curvetures described by sketches tending to elucidate the subject. Selections were made from the mineral cases in the Museum, that rendered the substances spoken of familiar, and their constituents were explained. The Lecturer offered an opinion that the primitive mountains were forced up into their present forms by chemical agency alone, since the ultimate bases of their constituents proved that they were nearly all composed of substances, that with a moist air and low temperature were capable of spontaneous ignition. He stated that granite which now forms the loftiest peaks in the world, appears once to have occupied the lowest levels,---that porphyry, clay-slate, and primitive limestone were upheaved and flung into their present vertical position, by its protrusion, and that prior to that catastrophe, observation and reasoning alike prove those substances to have been nearly level, and arranged merely as coatings round the Earth's surface.

February 2.---The Rev. H. Lacey delivered a second Lecture on the Hibernation of Animals. He remarked that the first purpose of Hibernation, and which he treated of in a former Lecture, had repose for its object; and that in this he should call attention to three other purposes of Hibernation---dress, climate, and food. Under the first head he noticed the changes which take place in clothing during the hibernation of animals, shewing them to be according to the constitution and temperament of different animals, and adapted to their manners, habits, and abodes, and to their geographical situation. He also noticed the general and partial changes in colour and plumage of the feathered tribe, and the influence of temperature in effecting these changes, observing that in summer the plumage was rich and vivid, in winter obscure and dull; and that these circumstances had led into error some of our most distinguished ornithologists. He then stated his opinion as to the manner in which the changes in clothing and plumage were effected,---and which he attributed to the differences in the colour of secretions, and their diminution or suspension, and noticed the hypothetical reasoning of some naturalists on this subject. The Lecturer then hastily enumerated some of the migrating animals and birds, and called attention to the wonderful phenomenon of the migration of the latter, particularising those which hibernate in this country, and intimated that gentlemen who had leisure might be profitably and usefully employed in the elucidation of this doubtful and uncertain branch of natural history. The Lecturer gave some observations on hibernation for the purpose of pro-

curing food, and mentioned several instances of the feathered tribe visiting countries where they were unknown, till the introduction of or changes in agriculture. A passing notice of fishes and crustacæ, and the phenomena attending their hibernation concluded the Lecture.

February 9.---Mr. Marten delivered the fourth of a course of Lectures on Ethics. After briefly reverting to the doctrine of Utility, he considered at some length the theory comprehending the selfish system of Morals. He endeavoured to prove that man is not actuated generally by motives of pure selfishness in the exercise of virtue, and illustrated this view of the moral nature by examples taken from the nursery, where the incipient feelings of approbation and disapprobation of certain actions of amiable kindness or atrocious cruelty are uniformly manifested in the countenance and features of the unsuspecting child. The Lecturer concluded with a brief review of Dr. Smith's theory of moral sentiments. As this system refers all morality to sympathy, it was considered, since by far the greater number of actions excite no feelings of this kind, that it was an unsound doctrine. This conclusion was still further supported by the fact, that the theory assumes the very feelings it is thought by its advocates to excite.

February 16.---Mr. W. Brent delivered a Lecture in continuation of a series on Amphibia; the second and last order of that class, comprising Serpents was treated of. He stated that this order is divided according to the Linnæan system into seven Genera, viz:---Crotalus, or Rattle Snake, Boa, Coluber, or Viper Family, Anguis, or Snake, Amphisbœna, or Ringed Snake, Cœcilia, or Wrinkled Snake, Achrochordus, or Warty Snake,---and pointed out their general characters, habits, and manners. He specified the marks by which may be distinguished a venomous Snake from an innocuous one, and the difference between the Viper and the Snake family. The Lecturer embellished his subject with various anecdotes, and illustrated it with several rare specimens from the Society's Museum. And concluded by recapitulating each separate feature of the whole class.

February 23.---Mr. Warman delivered a Lecture on Electricity. After recounting the various Theories promulgated from Thales to the 18th Century, he proceeded to establish the following propositions by experiments. First. That the Electric Fluid pervades all nature. Second. That it evidently repels itself. Third. That it is the same in all substances. Fourth. That Electrics are impermeable by the fluid. Fifth. That conductors are permeable through their whole substance. Sixth. That by exciting an electric, we

destroy the equilibrium,---positive being an accumulation, and negative a diminution.---The whole of these propositions were confirmed, except the Fourth, which was proved to be accurate where no impelling cause existed to prevent its natural agency---but that it was possible under certain conditions to force the fluid to pass the substance of the Electric.

March 9.---Mr. Masters delivered a Lecture on the English Poets in continuation of a Series, and on this occasion compared the merits of Young, Thomson, Mason, Gray, and Collins, giving illustrations and extracts from their works, and pointing out their chief excellencies and peculiarities.

March 16.---Mr. Read's concluding Lecture on the Turkish Empire and its Dependant States, was read to the Society by the Secretary, Mr. Read being prevented by indisposition from appearing in public. The Lecture reviewed the early History of Greece, its colonization, and the progressive introduction of the Arts and Sciences, of Commerce and Navigation.---It noticed the tendency of the several Governments to anarchy, and the causes.---The heroic bravery of the early Greeks was contrasted with the degradation which the modern Greeks have endured from their Mahomedan oppressors. The character of the latter and their advances in Literature were noticed. The Lecture concluded with a general glance at the position of the Turkish Capital, and it was asserted that under more liberal Institutions and a better Government, the Ottoman Empire may yet rise in the scale of Nations, and become the centre of Commerce to the Eastern Hemisphere.

March 23.---Mr. W. H. Weekes delivered a Lecture on the Chemistry of the Ores and Metallic Bodies. The Lecturer commenced by observing, that the attention of the Institution had been principally directed, during several of his preceding Lectures, to the Chemical Constitution and Analysis of the Ores and Metallic Compounds. Mr. W. said that by the term Ores he meant to imply all those native substances containing the Metals in a state of Oxide or otherwise altered, in all cases either combined with some foreign substance by which they were deprived of malleability and metallic lustre, or else so intimately mixed, that the particles of metal could not be discerned, and he would avail himself of the present opportunity to introduce a series of specimens illustrative of the various Ores and Native Metals, which he accordingly handed to the audience for inspection.

The Lecturer had on a former evening conveyed to the Institution a practical outline of the most simple and ready process by which the Ores, considered generally, might be

tested and examined with a view to determine their chemical constitution and commercial value, and he now remarked, if he were to attempt, by an uninterrupted series of experimental investigations to bring before the Institution all that might be said or done as respects the chemistry of metallic bodies, their Ores, Oxides, &c., he should be trespassing at an inordinate length upon their time and patience; he therefore proposed, as the subject generally had already been explained to the Institution, occasionally to devote an evening to this species of research, when it would be his object, as in the present instance, to enter upon the Analysis, Chemical constitution, properties and uses of *individual specimens* of the Ores, the Metals, their Oxides, Chlorides, &c.

Mr. W. now commenced his experimental demonstrations by analysing 100 grains of the *Malachite* or Green Carbonate of Copper, which he shewed to consist principally of the Metal in combination with Carbon. The following are the Analytical proportions deduced from the operation, the subject of which was a specimen selected from the mineral cases of the Museum.

Copper	- - - -	56,5
Oxygen	- - - -	17,3
Carbonic Acid	- - - -	11,2
Water	- - - -	15,
		<hr/>
		100,0

A portion, weighing 31 grains, detached from the same specimen, was also reduced to the Metallic state by assaying upon Charcoal under the operation of the Lecturer's Gas Deflagrator. The Metallic copper yielded in this experiment amounted to 13,5 grains, and the reduction was completed within twelve seconds.

Similar analytical illustrations were introduced with the peroxide of Manganese, terminating in its reduction to the state of a pure Metal, with Galena, various ores of iron, together with many experiments to elucidate the formation and uses of their respective Oxides, Chlorides, and other combinations. Mr. W. apologised for a digression he made at the close of the lecture, by directing the attention of the audience to a phenomenon which had occurred incidentally during one of his preceding experiments, from the falling of globules of melted iron at an extreme degree of heat into a vessel of water, whereby they acquired a very extraordinary motion, and were suspended for 2 or 3 seconds, a few lines above the real surface of the liquid, while they presented a most intensely dazzling brilliancy. The principal

operations on the respective ores and metals were effected with an Apparatus which contained nearly two cubic feet of that tremendously explosive compound, known to experimental chemists by the familiar appellation of *Mixed Gases*.

March 30.---Mr. Wilkinson delivered a Lecture in continuation of a course, on English History, in which the Constitution, Government and Laws, and the state of Learning, from the reign of Henry the 4th, to that of Henry the 7th, were treated of. He remarked that Historians experienced considerable difficulty in forming the confused, unsatisfactory, and often contradictory events of this period into a clear, consistent, and well authenticated narration; the Nation, in that part of the 15th Century, which was the subject of the Lecture, being with little intermission engaged in wars that produced the most surprising revolutions. This circumstance operated against Improvements in Legislation and Jurisprudence---and therefore few particulars of importance occurred that merited very particular notice. He spoke of the decline of Villanage, effected principally by the necessity of employing Slaves in War to defend the possessions or fight the Battles of their Lords, and their emancipation, consequent on their being entrusted with arms. He then referred to the description previously given of the Constitution of Parliament in the Reign of Richard the 2nd, which was similar in the beginning of the present period, and showed the changes effected by the introduction of the system of Representation, and the influence of the Laws and Political arrangements on the Constitution of the House of Commons; noticed the qualifications of Electors, and their Representatives, and the circumstances of the constant attendance of the latter to their duties, and their receiving from a principle of Equity, and not of positive Law, wages of their Constituents, and that wages commenced with the commencement of representation. The influence of the Clergy in the Public Councils of the Kingdom, the method of conducting the business of Parliament, the duration of the Sessions, and the principal systems of Laws were noticed; and remarks were made on the corrupt and imperfect Administration of Justice, and the causes and effects were traced. The ordinary and extraordinary revenues of the Crown, the prerogatives of royalty, the power of dispensation assumed by some Monarchs, the declension of the feudal system of Government, the distinction first now known in the Law between a King *de facto* and a King *de jure*, were cursorily dwelt on, and the Lecturer concluded this division of his subject with some general remarks on the comparative state of the Constitution, Government, and

Laws in England, and in other contemporary states of Europe.

The Lecturer then observed that he had to call attention to a lighter and more agreeable subject than that on which they had been engaged. It however happened very frequently, that the degree of study and anxious attention required on the part of the Lecturer, bore an inverse proportion to the degree of pleasure or entertainment afforded to an Audience. He then took a review of the state of Learning---adverting to its decline from the fall of the Western Empire to its revival in the 16th Century,---to its temporary revival in intermediate times---its revival, on the decline and fall of the Empire of the East, in the Countries of the West by the retirement of learned Greeks into Italy. and the consequent introduction of their language and philosophy, and to their disciples the restorers of useful and polite learning in the Western World. He noticed the slow progress of reviving Science, and the general and particular causes which retarded it in Europe in the middle ages, and particularly in England---the changes which took place in the state of some of the Sciences,---and particularly alluded to the Mathematical Sciences and the Science or Art of Alchemy, of which a curious account was given. In conclusion he noticed the persons who for their labours as Historians were worthy to be remembered, as also some writers on Government and Laws, and those who had relieved the dimness of the age by their success in the pursuit of general Literature.

April 13.---Mr. Hunt delivered a Lecture on Animal and Human Instinct. After referring to the conflicting opinions and confused views of various naturalists, all of whom seemed to differ from each other, he attempted to elucidate the subject by taking a condensed but comprehensive view of all the actions and movements of the animated world, which he divided into three classes; involuntary, instinctive, and rational, the former being common to every vital structure, both vegetable and animal; and the two latter being possessed in various proportions both by man and every class of the lower animals. He then proceeded to enumerate instances of the instinctive and the rational actions both in man and animals, defining instinct, "a natural propensity prior to experience and independent of instruction, tending to self-preservation or the perpetuity of the race;" while to rational actions he assigned the distinction of being always the result of instruction or deliberation, and directed to some end of which the animal is conscious, and for the accomplishment of which he is capable of selecting and adopting appropriate means. Various striking anecdotes were introduced to illustrate and

confirm these opinions, in which the surprising sagacity and docility of some of the lower animals were contrasted with that blind propensity which directed them in their pure instincts.

The Lecturer concluded by guarding his hearers against being led astray by this apparent similarity in the rational faculties of man and the lower animals, into the notion that the distinction between the lords of the creation and the brutes was merely one of degree, not of kind. He considered the capability of teaching whatever he could learn as the grand distinctive characteristic of the human being. To this he traced the advancement of society in civilization, science, arts, and every thing useful and interesting to mankind. He deprecated that dread of innovation which has so long arrested the progress of intellect, and that undue and exclusive respect for ancient usages and opinions, which is so common, and described it as a most pernicious fallacy; and maintained that it is in the very nature of man to improve upon the discoveries of past ages, unless under circumstances, where the intellect of the age has been evaporated in superstition or crushed by despotic power.

April 20.---Mr. Hunt delivered his second Lecture on Animal and Human Instinct, confining himself principally to the latter, which he divided into Animal, and Intellectual. He described the Animal Instincts of infancy as few and simple, and so perfect in their operation as to require no interference on the part of reason.

The Animal Instincts of more advanced life were adverted to, as being nearly destroyed by the artificial influence of civilized life, and sometimes so deteriorated as to be irrecoverably lost.---He recommended that in early youth they should be regulated and moderated.

On the higher order of Instincts, which he termed the Intellectual, he descanted very fully, dwelling principally upon natural inquisitiveness, the love of power, the love of possession, the love of approbation, the propensity to enquire into the reasons of things, the desire to enquire into futurity, and many other interesting features of the human mind, too commonly overlooked in the various systems of education.

April 27.---Mr. H. Christian, Junior, delivered a Lecture on the Natural History of the Horse. He stated that Egypt, and not Arabia, was the native place of the Horse, and mentioned the various purposes for which he was used by the Ancients; that the earliest record of his being brought under subjection was in Egypt, in the year 1650, before our æra; that he then became distributed over Asia, and was brought into the South of Europe. He then described the manner

in which the Tartars, and other barbarous nations caught and tamed him, which was followed by a variety of anecdotes showing the attachment of the Arab for his Horse. The History was then given of the Arab and his introduction into England, with a slight notice of the Turkish, Persian, Swedish, Finland, Norwegian, and Iceland Horses. He then treated of the English Horse from the earliest period of our History to the present time, its uses, habits, &c., and noticed the commencement of the custom of racing, with some very interesting particulars as to this sport in other Countries.

May 4.---The Rev. H. Lacey delivered a Lecture on the varieties of the Human Complexion. He glanced at the different castes or varieties under which might be arranged the several tribes of our species, noticing the Caucasian, Mongolian, Ethiopian, American, Malay, and other varieties; mentioned many interesting particulars in several of them, and combatted the hypothesis of writers on the subject; contending that no primary, substantial, or satisfactory cause, could be assigned for many of the differences observable in the characters and varieties of the Human Species, which were influenced by customs and manners, and by physical and moral causes.

May 11 and 18.---Mr. William Brent delivered two Lectures on Ornithology, which were devoted entirely to the Genus Columbia, or Pigeon tribe. After enumerating the various sorts, both British and Foreign, in a wild state, he entered into a full description of the varieties of the domestic species. The beauties and defects of that singularly plumaged bird the Almond Tumbler, were fully explained; as also the method of training and flying that far-famed Pigeon, the Carrier. He slightly noticed the other varieties, and concluded by giving a concise detail of the wonderful property possessed by the Trumpeter, viz. of imitating the sound of a trumpet.

May 25.---Mr. Marten delivered his concluding Lecture on Ethics. It contained a review of that system which supposes all moral sentiment to consist in an original feeling of human nature. This feeling the Lecturer considered to be universal, and in no instance, ever totally effaced from the human mind. Three limitations however were made to this universality---passion was said to blind, defective information to mislead, association to prejudice the moral judgment. Virtue and vice were considered to be terms expressive only of the relations of things---virtue or vice was proved to be not in the action but in the agent, an agent acting in a certain manner according to a certain intention.

June 8.---Mr. John Brent, Jun. delivered a Lecture on Pneumatics. After a few prefatory remarks on the revival of science in the fourteenth and fifteenth centuries, he proceeded to give a brief history of the origin of the principles of Pneumatics---referring to the doctrines of the school of Aristotle, and the subsequent hostility that the followers of that school manifested towards the brilliant discoveries of Galileo, Pascal, Toricelli, and others of the Literati of the time, who advocated the doctrine of atmospheric pressure. The invention of the first air pump, and the improvements or additions of most importance upon that instrument came next in review. After describing the different properties of air, its weight, elasticity, &c., together with the interesting phenomena attendant on these properties, the Lecturer concluded by referring the higher principles of Pneumatics to their practical elucidation in the doctrine of projectiles and the arts of gunnery and navigation.

June 15.---The Rev. J. Quin delivered a Lecture on the utility of general information, and the advantages of cultivating the understanding. After shewing that the most valuable part of humanity consisted in intellectual qualifications, the Lecturer in a logical manner proved the utter absurdity of the position that knowledge was not intended for every one, and convincingly proved that the less knowledge a man possessed, the less utility he must be to his family, to society, and to his country. He pointed out the grand divisions of human knowledge; and concluded by proving that considerable information was requisite for the perfect understanding of moral Philosophy, and which when comprehended would operate more in favor of happiness to the individual, than any other study.

June 22.---Mr. W. J. Cooper delivered a Lecture on Vegetable Physiology, in which he developed the different chemical changes in the Vegetable World, and described the nature and properties of the various Earths which constitute the soil proper for the growth of Vegetables, as well as the external agents, air, water, light, and heat. Several Diagrams were produced to illustrate the different layers of the trunk of the Tree, as also the circulation of the sap, and change produced upon it in its progress through the leaves.

June 29.---Mr. Hunt delivered a Lecture on the Properties of Matter. He commenced by urging upon all the students of science the indispensable importance of being well grounded in the knowledge of those phenomena of matter which form the basis of all the sciences; describing the laws which regulate the movements and constitution of the material world, as standing in the same relation to the practical sciences as

the definitions and axioms of Euclid bear to the higher branches of mathematics.

He then proceeded to illustrate the subject by a few simple experiments, and by alluding to the most familiar events and circumstances of daily occurrence. He avoided as far as possible those technical terms with which the subject is too often confused in elementary treatises, and reduced all the operations of inanimate matter, to four simple rules included under the terms, atom, attraction, repulsion, and inertia, and explained the manner in which these rules might be found applicable to every mechanical action. In conclusion he urged upon his audience the importance of habitual inquiry into the proximate causes of the various phenomena perpetually occurring.

He represented that in the present advanced state of inductive science, there were few enquiries of this kind which would not be met with a satisfactory solution in any modern system of Natural Philosophy, and particularly recommended "Dr. Arnott's Elements of Physics," as a work adapted to every capacity, because remarkably free from technical terms, and unintelligible allusions.

*September 28.---Annual General Meeting.---*When the Reports of the Committee, and of the Directors and Curators, &c., were read, the Treasurer's Accounts inspected, Officers appointed for the year ensuing, and the general business of the Institution transacted.

T. WILKINSON,

Secretary.



Abstract of the Accounts of the Institution from September 1829, to September 1830.

Dr.

	£.	s.	d.
To Members Annual Subscriptions.....	132	2	6
Ladies' Ditto.....	3	3	0
Members' Life Subscriptions.....	77	4	0
Visitors to the Museum { Public Days £22 17 0 } { Private Days 12 19 0 }	35	16	0
Visitors to the Lectures.....	6	9	0
Sale of Museum Catalogues.....	1	2	6
Use of Lecture Room	2	15	0

Cr.

By Balance due to the Treasurer on last Account...	18	8	7½
One Years' Annuity to Mr. Crow.....	50	0	0
One Years' Interest on £1000.....	50	0	0
The Exhibitor, One Years' Salary.....	20	0	0
Ditto, Gratuity voted at Annual Meeting, 1829....	5	0	0
Ditto, for Collecting Subscriptions.....	6	15	0
Insurance from Fire. Poor and Parochial Rates....	10	14	0
Purchase of Books, Printing, Advertising, Stationery, and Binding Books	15	9	9
Chemicals and Expences of Lectures.....	9	1	7½
Purchase of Objects for the Museum.....	2	19	9
Preparation of Specimens for ditto, Preservatives, Glasses, &c.....	6	2	7
Pout for Furniture and fittings in Museum and Library.....	13	5	1
Brent for Coals.....	8	16	0
Bilbe for Candles.....	0	16	0
Gas Company.....	9	15	0
Lancefield, Carpenter.....	2	17	2
Friend, Carpenter, Balance of Account.....	5	11	5
Cash repaid in part of money borrowed.....	10	0	0
Freight and Expences of Packages from Foreign Correspondents.....	2	14	6
Carriage of Parcels, Postages, distributing Reports and Notices, with incidental Expences.....	8	6	10
Balance in the Treasurer's Hands.....	1	18	1¼

C. WEEKES, Treasurer.

£258 11 6

£258 11 6

DONATIONS TO THE LIBRARY.

Sir John M. Tylden—The Philosophical Transactions of the Royal Society of London from 1820 to 1828. 20 Parts, 4to.

Gideon Mantell, Esq. Sussex—Mantell's Scientific Catalogue of the Organic Remains of Sussex. 1 4to. vol.

Alderman Frend—The work of the Rev. J. Caspar Lavater on Physiognomy. 4 vols. 8vo.

William Frend, Esq. London.—Maclean's Evils of Quarantine Laws; Southwood's Illustrations of the Divine Government; and 21 vols. 8vo. on various Literary and Scientific Subjects.

Mr. John Pout—Scott's Paris Revisited in 1815. 1 vol. 8vo.

Mr. George Kirkby, Canterbury—Captain Parry's 1st and 2d Voyages. 2 vols. 4to.

John Miller, Esq. Wingham—History of Columbia, 2 vols. 8vo; and Lady Morgan's Italy, 3 vols. 16mo.

Captain Harvey, R.N. Woodlands—Theatrical Magazine, 5 vols. 8vo.; Beauties of England, 2 vols. 8vo.; Kentish Register, 2 vols. 8vo.; and Magazines, 48 vols. 8vo.

Thomas Noble Elwyn, Esq. London—Clarendon's History of the Rebellion, 4 vols. folio.

P. B. Duncan, Esq. Oxford—Introduction to the Catalogue of the Ashmolean Museum.

Rev. J. Quin, Canterbury—Arnott's Elements of Chemistry, 2 vols. 8vo.

Rev. S. Gurteen, Canterbury—Davy's Chemistry, 1 vol. 8vo.; History of the American War, 4 vols. 8vo.; with eight vols. on various Literary and Scientific Subjects.

Mr. J. T. Linford, Canterbury—A pair of handsome Engravings.

Gideon Mantell, Esq. Sussex—A Lithographic Print of the Remains of a fossil fish.

Major North, Brussels—Twelve Prints from Sir Joshua Reynolds; a spirited Lithographic Sketch of Lord Cosmo Russel; Portrait of Lord Byron; and Four splendid Line Engravings from Raphael.

BOOKS ADDED TO THE LIBRARY.

Library of Entertaining Knowledge, 2 vols. 16mo.

Mechanic's Magazine, 2 vols. 8vo.

Monthly Review, 3 vols. 8vo.

Hogarth's Works, folio.

JOHN POUT,

Librarian.

REPORT

OF THE

DIRECTORS AND CURATORS OF THE MUSEUM.

The period has again arrived at which it becomes the pleasing duty of the Directors and Curators, to survey the progressive labors of the past twelvemonth ; and to inform the Members of the Institution, to whom they are indebted for the numerous additions to the Museum that have been accumulated since the last report.

It is particularly gratifying to observe, that the well-directed efforts of a few individuals in the formation of this Collection, have been most efficiently supported by the Citizens of Canterbury and the neighbouring Gentry ; many of whom appear to vie with each other, in forwarding the views of those more actively engaged in the arrangement and final disposition of the objects presented. To this sympathy and union is to be ascribed its continuous and flattering success.

To a stranger the character of a neighbourhood is estimated alone by the public works that are accessible to his scrutiny---by these the degree of civilization, of the science, and intellect of a district is to be estimated. Canterbury boasts of her Antiquities---of her Public Walk, the Dane John---and may it not be added of her Museum,---for here are to be shewn the most indubitable proofs, that Science has for her Votaries a home, and that with a liberal hand the "gates are unbarred"---the difficulties that beset the student are cleared away, and all are invited to partake of the pure delight that such occupation and such studies can alone confer.

In Natural History what advance can be effected without a Collection of Specimens to refer to? How vain the attempt to comprehend the subject by Books alone! The Museum affords a facility in such pursuits, for the want of which nothing could compensate. Of this the contributors seem well aware, and the Directors and Curators feel pleasure in recording the valuable presentations made by His Excellency the present Governor of Madras, (Right Hon. S. R. Lushington) which comprise specimens of several of the noble Mammalia of that Country, as the Bengal Tiger (*Felis Tigris*,) Leopard (*Felis Leopardus*,) Panther (*Felis Pardus*,) Ounce (*Felis Uncia*,) Elk (*Cervus Alces*,) &c. &c.; also a magnificent Skull of a large domesticated Elephant with tusks; as well as upwards of 150 species of the feathered race, some of which as the Vulture, Hornbill, Roller, Barbet, Nuthatch, and Ibis, have enabled the Curators to fill up Genera which were before wholly wanting in the cases. Many of the Birds were shot on the Neelgherry Mountains, at an elevation of between eight and nine thousand feet from the level of the Sea, and afford an illustration that altitude in a warm climate is equal to North Latitude, as far as animated nature is concerned; for among the birds procured in that situation (Lat. 10.° N.) were the Sparrow Hawk (*Falco Nisus*,) Henharrier (*Falco Cyaneus*,) Hoopoe (*Upupa Epops*,) Woodcock (*Scolopax Rusticola*,) and others common to our own Latitude. Amongst those especially deserving notice are a new and undescribed species of Owl ---the Indian Jungle Cock and Hen, the probable origin of our own domestic Poultry---the Ibis, remarkable for its similitude to the figures on Egyptian monumental remains---the Cinnamon Heron (*Ardea Cinnamomea*)---the Indian Grouse (*Tetrao Indicus*,) &c. &c. Taken as a whole, this Collection is by far the most valuable and extensive of any of the presentations in Natural History, that have been received since the formation of the Museum.

Next in value and importance to the Institution, is a Collection of the Birds and Reptiles of Demarara ; 75 specimens of the former, and 12 of the latter, procured and presented by W. D. Couchman, Esq., who is living farther in the interior of that Settlement by many miles than any other European. This Gentleman, when applied to, expressed in the handsomest terms his wish to aid an Institution in his native City, professing objects like those to which this aspires : this declaration was immediately followed up by a rich collection of skins, which have arrived in excellent preservation. The rare Rock Manakin (*Pipra Rupicola*), usually denominated the Cock of the Rock, is one of the most brilliant of the feathered tribe, its color a golden scarlet is so vivid that it eclipses all that are placed in competition with it ---this with five species of Toucans, some very beautiful kinds of Jacamars, Tanagers, Chatterers, Manakins, Creepers, various Gallinaceous birds, &c., comprise a most valuable and brilliant assortment, and will add considerable splendor to the Cases, when set up and arranged according to their affinities.

Nor must in this enumeration be omitted the Chesnut Jacana (*Parra Jacana*), from South America, the gift of Mrs. Cooper Willyams : this singularly elegant bird is remarkable for possessing a well-defined spur on the wing, as well as the longest feet and claws, in proportion to its size, of any kind known. Dr. Chisholm, and E. S. Curling, Esq. have also enriched this department: the former by adding the Female Painted or Gold Pheasant (*Phasianus Pictus*), and the latter by the presentation of five brilliantly colored Foreign birds, among which the Crested Kingsfisher (*Alcedo Cristata*) is eminently conspicuous. A very fine pair of stuffed specimens of the Wood Grouse or Cock of the Wood (*Tetrao Urogallus*), the largest of European Gallinaceous Birds and inhabiting Norway, have also been received from G. C. Oxenden, Esq., to whose kindness also on former occasions, the Museum is

much indebted for many very excellent illustrations of this department.

Two specimens of that extraordinary animal (the existence of which was for a time doubted) the Duck-billed Mole (*Platypus Anatinus*), a native of New Holland, have been contributed by Mrs. Henry Croasdill. These with the small Guinea Musk (*Moschus Pygmæus*), presented by W. Gunnell, Esq., are decidedly to be ranked among the most interesting of Quadrupeds. Three specimens of North American Squirrels, two of which are used extensively in commerce, have also been added by Mr. J. Brent, Jun.

The Cases appropriated to Reptiles have been enriched by Mr. Couchman's valuable series of Snakes, &c. from Demarara, many of which retain the pristine beauty of their colors and elegantly varied markings.

The Conchological series is also gradually becoming richer in specimens: during the past season the *Helix Otis*, a rare species, has been presented by a valued friend to the Institution, the Rev. G. R. Leathes, Shropham Hall, Norfolk; that truly beautiful shell, the *Murex Palma Rosæ*, has been given by Mrs. R. Small; and the *Spondylus Aurantiacus*, a shell equally rare and beautiful, by the Curator. It is gratifying also to be enabled to add the name of Mr. G. Sowerby, as a contributor in this department.

The accession to the collection of Insects has this year been less considerable than on former occasions, but the Society is indebted to the Rev. G. R. Leathes, and Mr. J. Dix, for some rare British Specimens; and also to Robert Ramsden, Esq. of Spratton, Northamptonshire, for the Emperor of Morocco, an insect equally scarce and beautiful, and which derives an extraneous interest from the verse of Peter Pindar.

Wm. Hulke, Esq. has presented a magnificent specimen of the *Monoculus Polyphemus* (King Crab), from the Chinese seas: this is the most extraordinary specimen of the division Crustacæ of which the Museum is possessed.

In the department of Comparative Anatomy several curious subjects have been prepared and presented by Mr. H. Christian, Jun.

The Fossil and Geological departments have received many accessions from various members and friends during the year; probably the specimen of greatest interest, is a new form of Carbonate of Iron, collected by Lord Grenock and Sir J. M. Tylden (and presented by the latter gentleman), from the thin layer of Green Sand enclosing lignite at Hythe: in every case the Iron appears on the lignite, and is probably of recent formation, if not at the present moment crystalizing, as in no instance has it hitherto been found *in situ*. Mr. R. Dadd, Curator of the Chatham Museum, has given the Tooth of an Elephant from the Plastic Clay incumbent on the Chalk near that town, with several Chalk Fossils; and J. B. Gunnell, Esq. has added to the Osseous remains, several specimens from the London Clay at Whitstable.

In Mineralogy forty-eight very valuable and illustrative specimens have been received from the Rhone near Lyons, through the kindness of E. S. Curling, Esq., containing excellent specimens of Granite, Mica, Feldspar, crystalized Carbonate of Lime, Pyrites, &c., as well as a smaller series from Mont Blanc and contiguous situations; these will be extremely useful to future Lecturers on Mineralogy and Geology.

A complete revision of the series of Coins has been commenced by Colonel Gordon of Walmer, to whom the Society are deeply indebted for the improvements he has effected in the disposition of the specimens, as well as for many additions he has introduced during the progress of the work.

Amongst the objects of peculiar interest in that department entitled Illustrations of the Manners and Customs of different Nations, must be mentioned several exquisitely carved Canoe Paddles, &c., presented by Mrs. H. Croasdill and H. S. Hodges, esq. A Chinese Chair wholly made from Bamboo, from Mr. G. Neame. An Oriental Manuscript from S. Sherwood, Esq.

of Ramsgate; and a singularly curious Harp, used by the native Indians, from the Right Hon. S. R. Lushington.

In conclusion the Directors and Curators call the attention of the Society, to the valued present of E. S. Curling, Esq., which is of a character that few persons however desirous could have supplied, it being an entire Window of Painted Glass, of the same character as that recorded in the previous report as a donation from the same gentleman, to whom the Society would be wanting in gratitude did they not acknowledge his kindness. This besides its intrinsic value, which is great, is estimable on account of the perfect seclusion it affords to the Museum: the eye of the spectator being now wholly confined to the room---not the least attractive part of which are the windows, replete with pictorial subjects from Sacred Writ, as well as from domestic life. It is impossible in the space afforded to a Report to enumerate all the subjects, yet the peculiar merit of a few cannot pass unrecorded. Daniel in the Den, as a picture has fine breadth and contrast of light and shadow; the lions are remarkably well drawn, and the portions of human skeletons that lie scattered about attest the carnage they *have* committed, although now represented in quiet and harmless attitudes; their manes appear scratched out in the same manner as the sharp lights are effected in modern Lithography. The contiguity of life and death is admirably depicted by a head, one half of which is represented fleshy and of becoming countenance, while the other exhibits but the dry and bony skeleton, the hollow where an eye had been, and teeth without a lip to cover them. The study of monumental marbles affords many similar ideas, but surely none can be more terse and expressive.

After such an enumeration, added to the particulars that will follow, the Directors and Curators feel, that the past season must be considered as one of the most brilliant: it affords proof, that the anticipations of the past have been more than realised---that the Society has had a large increase

of friends both at home and abroad, by the united exertions of whom, the time may be looked forward to, when the Museum will emerge from local to more general importance.

It is only necessary further to remark, that part of the Birds have been set up and are now exhibited in the Museum, and that through the liberality of the members of the Institution and the Public, it is hoped that additional cases will shortly be procured, and the remaining portions of the valuable Collections alluded to, will be placed as conspicuously in the Museum as their merits demand.

LIST OF DONATIONS

TO THE MUSEUM.

QUADRUPEDES.

Eighteen Skins of Animals—India—comprising specimens of *Felis Tigris* (Bengal Tiger)—*Felis Leopardus* (Leopard)—*Felis Pardus* (Panther)—*Felis Uncia* (Ounce)—*Cervus Alces* (Elk)—*Bradypus Pentadactylus* (Five-toed Sloth) &c. &c. &c.
Moschus Pygmaeus (Guinea Musk) stuffed
Sciurus Striatus (Ground Squirrel)—*Sciurus Flavus* (Red Squirrel)—*Sciurus Cinereus* (Grey Squirrel) stuffed
Lepus Timidus (Common Hare) light coloured variety, stuffed
Bradypus Didactylus (Two-toed Sloth)—*Demarara*
Platypus Anatinus (Duck-billed Platypus) two specimens, New Holland

Donors.

Right Hon. S. R. Lushington
 W. Gunnell, Esq.

Mr. J. Brent, jun.

Mr. N. Cook

W. D. Couchman, Esq.

Mrs. H. Croasdill

BIRDS.

Falco Ossifragus (Sea Eagle)—*Cuculus Canorus* (Cuckoo)—*Fringilla Domestica* (Sparrow) variety
Sturnus Vulgaris (Starling)—*Turdus Musicus* (Song Thrush) stuffed
Anas Tadorna (Sheldrake) two specimens
 Fifty Skins of Birds from the Neelgherry Mountains, lat. 10 deg. N. at an elevation of 8,700 feet from the level of the Sea, comprising specimens of *Falco Nisus* (Sparrow Hawk)—*Falco Cyaneus* (Hen-harrier)—*Lanius Jocosus* (Jocose Strike: Bulbul or Indian Nightingale)—*Lanius*

Mess. J. and W. Masters

Mr. T. Kingsford, jun.

Mrs. Pearson

Castaneus (Chesnut-backed Shrike)—**Coracias Bengalensis** (Bengal Roller)—**Oriolus Galbula** (Golden Oriole, variety : Mango Bird)—**Gracula Cristatella** (Crested Grackle)—**Bucco Philippinensis** (Yellow-throated Barbet)—**Cuculus Mindanensis** (Mindanao Cuckow)—**Cuculus Ægyptius** (Egyptian Cuckow)—**Picus Goensis** (Goa Woodpecker)—**Upupa Epops** (Hoopoe)—**Turdus Roseus** (Rose-coloured Thrush)—**Ardea Cinnamomea** (Cinnamon Heron)—**Phasianus Gallus** (Jungle or Indian Wild Cock and Hen) &c. &c

Also 100 Skins—Madras—comprising specimens of **Lanius Malabaricus** (Malabar Shrike)—**Tetrao Indicus** (Indian Grouse)—**Pavo Cristatus** (Peacock)—**Platalea Leucorodia** (Spoonbill)—**Muscicapa Paradisi** (Paradise Flycatcher)—**Sitta Frontalis** (Frontal Nuthatch)—**Vultures**—**Hornbills**—New Species of Owl—Ibis, &c. &c.

Seven Foreign and Two British, viz. **Trogon Fasciatus** (Fasciated Curucui) **Oriolus Persicus** (Black and Yellow Oriole)—**Certhia Flaveola** (Black and Yellow Creeper)—**Tanagra Rubra** (Red Tanager)—**Tanagra Jacapa** (Red-breasted Tanager)—**Fringilla Nitens** (Glossy Finch)—**Muscicapa Viridis** (Chattering Flycatcher)—**Scolopax Pygmæa** (Pygmy Curlew)—**Charadrius Calidris** (Sanderling)

Scolopax Calidris (Redshank) male and female

Falco Subbuteo (Hobby) stuffed—**Anas molissima** (Eider Duck) female

Turdus Viscivorus (Missel Thrush)

Anas Cygnus (Wild Swan)

Ardea Ludoviciana (Louisiane Heron) stuffed

Corvus Frugilegus (Rook)

Falco Ossifragus (Sea Eagle) young

Mergus Merganser (Goosander) male and female—**Mergus Serrator** (Redbreasted Merganser) male and female

Picus Auratus (Goldwinged Woodpecker)—**Sturnus Ludoviciana** (Louisiane Starling)

Turdus Fuscus (Brown Thrush) stuffed

Phasianus Pictus (Painted or Gold Pheasant) female—**Psittacus Eximius** (Nonpareil Parrot) stuffed—**Psittacus Tabuensis** (Tabuan Parrot) variety

Certhia Pulchella (Beautiful Creeper)—**Alcedo Cristata** (Crested Kingfisher)—**Pipra Pareola** (Blue backed Manakin) **Pipra Aureola** (Black and Yellow Manakin)—**Loxia**

Orix (Grenadier Grosbeak)

Mergus Albellus (Smew) stuffed

Right Hon. S. R. Lushington.

Mr. J. Gould

Mr. F. Collard

George Stone, Esq.

Mr. W. Masters

J. B. Toker, Esq.

Mr. G. B. Foreman

Miss M. Davey

Mr. S. Trott.

— Kennett, Esq.

Mr. J. Brent, jun.

Dr. Chisholm.

E. S. Curling, Esq.

Mr. T. Sayer.

- Picus minor* (Lesser spotted Woodpecker)—
Hæmatopus Ostralegus (Pied Oyster-catcher)
Anas Acuta (Pintail Duck)
Columba Palumbus (Ring dove)
Anas Fuligula (Tufted Duck)
Alca Torda (Razor bill)—*Trochilus Multicolor*
 (Harlequin Humming bird) stuffed
Larus Eberneus (Ivory Gull) young—*Aptenodytes Chrysocome* (Crested Penguin) stuffed
Ardea Ciconia (White Stork)
Parra Jacana (Chesnut Jacana)—*Bucco Fuscus* (Whitethroated Barbet)
Ardea Ciconia (White Stork)
Pelecanus Carbo (Cormorant)—*Mergus Merganser* (Goosander)—*Fringilla Domestica* (Sparrow) white variety, stuffed
Rallus Crex (Land Rail) stuffed
Tetrao Urogallus (Wood Grouse or Cock of the Wood,) male and female, stuffed
 Seventy-five Skins—*Demerara*—comprising specimens of *Falco Furcatus* (Swallow-tailed Falcon)—*Ardea Alba* (Great white Heron)—*Rhamphastos Erythrorhynchus* (Red beaked Toucan)—5 others kinds of Toucans and Toucanets—*Momotus Brasiliensis* (Brazilian Motmot)—*Trogon Viridis* (Yellow bellied Curucui)—*Trogon Curucui* (Red bellied Curucui) *Oriolus Chryscephalus* (Gold headed Oriole)—*Pipra Rupicola* (Rock Manakin or Cock of the Rock)—*Pipra Manacus* (Black-capped Manakin)—*Pipra Erythrocephala* (Gold headed Manakin)—*Ampelis Carnifex* (Red Chatterer)—*Ampelis Cotinga* (Purple breasted Chatterer)—*Ampelis Cayana* (Purple throated Chatterer)—*Certhia Spiza* (Blackheaded Green Creeper)—*Certhia Cyanea* (Black and Blue Creeper)—*Certhia Flaveola* (Black and Yellow Creeper)—*Galbula Albirostris* (Whitebilled Jacamar)—*Tanagra Episcopus* (Bishop Tanager)—*Tanagra Jacapa* (Redbreasted Tanager)—&c. &c.

Mr. Ald. H. Cooper.
 F. A. Tomlin, Esq.
 W. Bland, jun, Esq.
 Mr. J. Spain.

Mr. E. Beasley.

W. Gunnell, Esq.
 Mr. Crayden.

Mrs. C. Willyams.
 Rev. A. Power.

Mr. N. Cook.
 Mr. F. Graham.

G. C. Oxenden, Esq.

W. D. Couchman, Esq.

REPTILES.

- Lacerta Bullares* (Bladder Lizard)
Lacerta Africana (African Lizard) 3 specimens
Lacerta Agilis (Green Lizard)
Lacerta Agilis (Green Lizard)
Lacerta Varia (Variegated Lizard) 2 specimens
 Eight Snakes—*Demarara*—viz. 2 *La Baria*—1 Coral Snake—1 *Salacaria* Snake—1 *Umariaca* Snake—2 *Colloconaria* Snake—1 Parrot Snake (*Coluber Panamensis*). 3 dried Snake Skins, viz.—*Boa Constrictor*—*Lana Camouny*—and Bushmaster. 1 Tortoise Shell

Mr. Sharp, St. George's
 Mr. G. Davey
 Dr. Chisholm
 Mr. T. Cooper
 Mrs. H. Croasdill

W. D. Couchman, Esq.

FISH.

Alepisancer Sturio (Common Sturgeon) small specimen

Mr. A. Keen

INSECTS.

Gryllus Gryllotalpa (Mole Cricket)
Thirty-three specimens, British—1 *Papilio*
Machaon (Swallow-tailed Butterfly)
112 Specimens—British
Five ditto—New Holland
Two ditto, *Papilio Iris* (Emperor of Morocco)

Mrs. Warren

Rev. G. R. Leathes
Mr. Dix, Jun.
Mrs. H. Croasdill
R. Ramsden, Esq.

CRUSTACEÆ.

Cancer Bernhardus (Hermit Crab)—*Cancer*
Scorpio (Spider Crab)
Monoculus Polyphemus (King Crab)
Echinus Spatagus

W. Gunnell, Esq.
W. Hulke, Jun. Esq.
Mr. W. Hills

SHELLS.

Two Foreign specimens—*Helix Otis* and *Hippopus maculatus*: Lam.
Voluta Flexuosa
Murex Palmarosæ—*Concholepas Peruviana*
—*Ranella Spinosa*
Spondylus Aurantiacus
Two specimens of *Nerita*
Two specimens of *Ostrea Virginica*
Specimens of *Patella Pellucida*, and various
British specimens
Several Foreign specimens

Rev. G. R. Leathes
Mr. G. Sowerby

Mrs. Small
Mr. W. Masters
Mrs. H. Croasdill
Mr. T. Friend

I. B. Gunnell, Esq.
Mr. T. Weekes

ZOOPHYTES, &c.

Specimen of *Madrepora Muricata*
Specimen of *Madrepora Rosea*
Large specimen of *Madrepora Cristata*, Jamaica

Mrs. Welch
Lady Grey
Mr. R. Norris

COMPARATIVE ANATOMY.

Bones of the Head with the Tusks of an Elephant
Pair of Antelope's Horns
Lusus Naturæ (Kitten with 8 Legs)
Head of the Wild Boar
Larynx of a Baboon
Head of a Horse—Head of an Otter—Head
and Spine of the Domestic Cat—Skeleton
of an Eagle

Right Hon. S. R. Lushington
H. S. Hodges, Esq.
Lieut. Trotter, R. N.
Captain Francis
W. D. Couchman, Esq.

Mr. Christian, Jun.

FOSSILS,

Two Fossil Oysters
Knee Joint of the *Elephas Primigenius*—part
of a Jawbone, Teeth, and various Bones of
Cervus—portion of a petrified Tree
Two specimens of Fossil Wood—Madras
Fifty Specimens—Kentish
Various specimens from the Chalk at Chatham
—Tooth of an Elephant—Bone of a Whale
Specimen of Pyritical Wood—Isle of Wight
One *Gryphæa*—one *Venus*

Mr. T. Jennings

J. B. Gunnell, Esq.
Rt. Hon. S. R. Lushington
W. Bland, Jun. Esq.

Mr. R. Dadd
Mr. Baldwin
Mr. Parrinton

MINERALS.

Six specimens of Marbles—Boulogne

B. Hodgson, Esq.

Two specimens
 Various specimens from the London Clay
 Thirty specimens, including highly Magnetic
 Iron, &c.—Madras
 48 specimens. Lyons—& 42 ditto, Mont Blanc
 Various Geological specimens from Green
 Sand, Hythe
 Specimen of Mushroom Pyrites
 Two specimens

Mr. T. Davey
 Mr. W. Masters
 Rt. Hon. S. R. Lushington
 E. S. Curling, Esq.
 Sir J. M. Tylden
 Mr. Parrinton
 W. D. Couchman, Esq.

COINS.

1 English Copper Coin (Q. Anne Farthing)
 2 English Silver, 1 French Silver, 4 Dutch
 Silver
 2 Turkish Silver
 2 Roman Silver, 3 Roman Copper, 1 Eng-
 lish Gold
 140 Copper Tokens
 1 English Silver
 1 English Gold
 2 Roman Copper, 3 English Copper, 1 Spa-
 nish Silver
 2 Roman Copper
 1 Roman Copper, 1 English Copper, 2 Cop-
 per Tokens
 1 English Silver
 1 English Silver, 2 English Copper, 4 Coro-
 nation Medals

Mr. J. Pettman
 Mrs. Amherst
 Miss Peters
 Colonel Gordon
 Mr. Ald. G. Friend
 Mr. Huckstepp
 F. A. Tomlin, Esq.
 Rev. I. Molesworth
 Mr. Ald. H. Cooper
 Mr. W. Masters
 Mr. G. Buckley
 Mr. J. Pout

ILLUSTRATIONS OF THE

Manners and Customs of different Nations.

Malay Kreis
 Chinese Bamboo Chair
 Native Indian Musical Instrument (orna-
 mented Harp)—Indian Weapon (Sword)—
 Indian Deity carved in marble
 Oriental Manuscript
 1 Canoe Paddle
 7 Canoe Paddles and 1 Dish from New Zea-
 land, 1 Cloak or Mat, 2 Nets, and 2
 Wooden Weapons from New Holland
 Specimens of Poisoned Arrows—Bird Skins
 worn as ornaments by the Native Indians
 —Demarara
 1 Fish Hook—Otaheite

W. Henniker, Esq.
 Mr. G. Neame
 Right Hon. S. R. Lush-
 ington
 S. Sherwood, Esq.
 H. S. Hodges, Esq.
 Mrs. H. Croasdill
 W. D. Couchman, Esq.
 Mr. Parrinton

MISCELLANEOUS.

Carved Head from St. Radigund's Abbey,
 near Dover
 Bird's Nest and Eggs encrusted with Lime-
 stone (Matlock)
 Model of a vesicular Calculus
 Two Porcelain, and two Rice Figures
 Foot of an Alligator
 Fifty Birds' Eggs
 Nests of Marabunta—Demarara

Mr. T. Jennings
 J. Slater, Esq.
 Mr. Christian, Jun.
 Mr. E. Keeler
 S. Sherwood, Esq.
 Mr. R. Ashdowne
 W. D. Couchman, Esq.

W. MASTERS, Curator.

J. FRIEND, Secretary.

Trustees of the Building.

Mr. Alderman R. Frend	J. J. Peirce, esq.
Mr. Alderman J. Cooper	T. L. Burch, esq.
Mr. Alderman J. S. Browne	Mr. W. Philpot
Mr. Alderman M. Cowtan	Mr. G. Ash
Mr. Alderman W. Homersham	Mr. J. T. Linford
Mr. Alderman W. Jones	Mr. W. Beer
Mr. Alderman G. Frend	Mr. W. Masters
Mr. Alderman H. Cooper	Mr. H. K. Nisbett
Mr. Alderman O. Snoulten	Mr. T. Wilkinson

Officers of the Institution.

Secretary—Mr. T. Wilkinson	Guardian of the Apparatus—Mr.
Treasurer—Mr. C. Weekes	S. Phillips
Librarian—Mr. J. Pout	Collector of Subscriptions—Mr.
	T. Davey

Officers of the Museum.

DIRECTORS.

H. W. Carter, esq. M.D.F.R.S.E.	R. Frend, esq. Alderman
R. Chisholm, esq. M.D.	O. Snoulten, esq. Alderman
W. H. Baldock, esq. M. A.	G. C. Oxenden, esq.

Curator—Mr. W. Masters, F.H.S.

SUB-CURATORS.

Mr. W. H. Weekes	Mr. John Brent, jun.
Mr. E. F. S. Reader	Mr. Henry Christian
Mr. J. Friend	Mr. George Newport
Mr. Wm. Brent	

Secretary—Mr. John Friend
 Treasurer—Mr. Capon Weekes
 Exhibitor—Mr. Thomas Davey

Committee appointed for the year ensuing.

Henry Cooper, esq. (Mayor)	Mr. Robert Furley
Mr. Alderman Snoulten	And the following Members, by
John Brent, esq.	virtue of their Offices:—
Mr. Wm. Brent	Mr. Thomas Wilkinson
Mr. Wm. Taylor	Mr. William Masters
Mr. Thomas Hart	Mr. John Friend
Mr. John Weeks	Mr. Capon Weekes
Mr. Henry King Nisbett	Mr. John Pout
Mr. John Brent, jun.	Mr. Solomon Phillips

Honorary Members.

John Haviland, esq. M.D. Regius Professor of Physic in the University of Cambridge
 John Kidd, esq. M.D. Regius Professor of Physic in the University of Oxford
 The Reverend William Buckland, D.D. Professor of Mineralogy, Oxford
 The Right Honourable Lord Tenterden, Lord Chief Justice
 Sir Anthony Carlisle, F.R.S. Surgeon Extraordinary to the King
 General Miller
 Gideon Mantell, esq. Lewes, F.R.S.
 Godfrey Higgins, esq. F.S.A.
 Edward Spencer Curling, esq.
 Mr. Henry Weekes, Sculptor

Members for Life.

The Rt. Hon. the Earl of Darnley	Thomas Lever Burch, esq.
The Rt. Hon. the Earl of Guilford	Mr. Alderman H. Cooper
The Rt. Hon. Lord Sondes	Mr. Thomas Hart
The Right Hon. Lord Clifton	Mr. John Brent, jun.
The Rt. Hon. Visc. Fordwich, M.P.	Mr. William Masters
The Hon. Richard Watson, M.P.	Mr. George Dewell Keen
Joseph Royle, esq.	Mr. William Beer
Thomas Foord, esq.	Mr. Robert Ashdowne
William Henry Baldock, esq.	Mr. John Pout
John James Peirce, esq.	A. H. Spratt, esq.
John Brent, esq.	Mr. Alderman Cooper

Ladies.—Annual Subscribers.

Rt. Hon. Countess of Guilford	Mrs. W. Masters
Miss Kenrick	Miss Masters

Members.

Admans, John	Delmar, William
Andrews, Thomas	Delmar, James
Baker, Thomas	Dorman, Thomas
Baldock, William Henry	Dodderidge, Henry
Barrett, Colonel	Eyles, J. E.
Baskerville, Thomas	Field, Abraham
Beasley, Edward	Fletcher, William Henry
Bellingham, Frederick	Fletcher, Edmund
Bellingham, John	Fletcher, Richard
Bilbe, John	Flint, Abraham
Bland, William	Flint, Benjamin
Bloomfield, Rev. J.	Flint, Frederick
Bowman, William	Foreman, William
Brammell, Rev. D.	Foreman, George B.
Brent, William	Frend, Alderman Richard
Brockwell, William	Frend, Alderman George
Browne, Alderman J. S.	Freund, William
Browne, Albert	Friend, John
Browne, Cornelius	Furley, Robert
Brydges, Rev. A. Egerton	Garrow, Sir William
Buckley, George	Goodban, Charles
Budden, John	Gregory, Rev. Edward
Bunbury, T. B.	Gregory, George
Carter, H. W., M. D., F. R. S. E.	Gurteen, Rev. S.
Catchpool, —	Hacker, Thomas
Chapman, Garmston	Hacker, George
Chipperfield, Robert	Halford, Richard
Chisholm, Robert, M. D.	Hills, William
Christian, Henry	Hodgson, Brian
Christian, Henry, jun.	Hohler, W. F.
Clements, Henry	Homersham, James, jun.
Cock, Richard	Horton, Thomas
Collard, William	Houghton, John
Cooper, W. J.	Hunt, Thomas
Cooper, James	Huntley, William
Cottrell, C. C.	Hurst, George
Cowtan, Alderman Mawer	
Cowtan, Charles P.	

Jackson, Joseph
Jones, John Gere
Jones, Rees

Keeler, Edward
Keen, Henry
Keen, Albert
King, Samuel
Kingsford, Edward
Kingsford, Sampson
Kingsford, Henry
Lacey, Rev. H.
Lamb, Richard
Lee, Richard
Linford, J. T.
Lloyd, Rev. M. H.

Marlen, Henry
Marshall, Charles
Marsh, Rev. G. P.
Marten, John
Miller, John
Minter, John
Molesworth, Rev. I. E. N.
Moss, George

Neame, George
Newport, George
Nisbett, Henry King

Oakley, John
Oliver, Thomas
Oxenden, Sir Henry, bart.
Oxenden, G. C.

Parker, Jesse
Partridge, John
Phillips, S.
Philpot, William
Philpot, George
Plummer, Edward
Pratt, Henry

Quillinan, Edward
Quin, Rev. J.

Read, Thomas
Read, George
Reader, E. F. S.
Reader, J. R.
Ridout, Thomas
Robinson, George Smyth

Sabine, Alfred
Sankey, Robert
Schroeder, —
Sharpe, Wm. (Longport)
Sharp, Wm. (St. George's)
Shindler, Robert
Simonds, John
Smith, Henry, jun.
Smithson, Hugh
Snoulten, Ald. Osborn
Soulby, George
Southee, Edward
Stead, Captain
Stead, Stephen

Taylor, William
Terry, Thomas
Thompson, Edward P.
Thornton, H. G.
Tylden, Sir J. M.
Tyson, Stains

Walker, Robert
Warman, H.
Weeks, John
Weekes, Capon
Weekes, W. H.
White, William
Whitehead, —
Wilkinson, Thomas
Woolright, Henry
Wraith, John



ANNUAL REPORT

OF THE

CANTERBURY

Philosophical and Literary INSTITUTION,

PRESENTED AT THE

ANNUAL GENERAL MEETING,

OCTOBER 4TH, 1831.

Vires acquirit eundo.



Patrons,

The Right Worshipful the MAYOR of CANTERBURY,
(for the time being.)

The Right Honourable the EARL of DARNLEY.

The Right Honourable the EARL of GUILFORD.

The Right Honourable LORD SONDES.

The Right Honourable VISCOUNT FORDWICH, M. P.

The Right Honourable S. R. LUSHINGTON.

The Honourable RICHARD WATSON, M. P.

SIR EDWARD KNATCHBULL, Bart.

THOMAS LAW HODGES, Esq. M. P.

THOMAS RIDER, Esq. M. P.

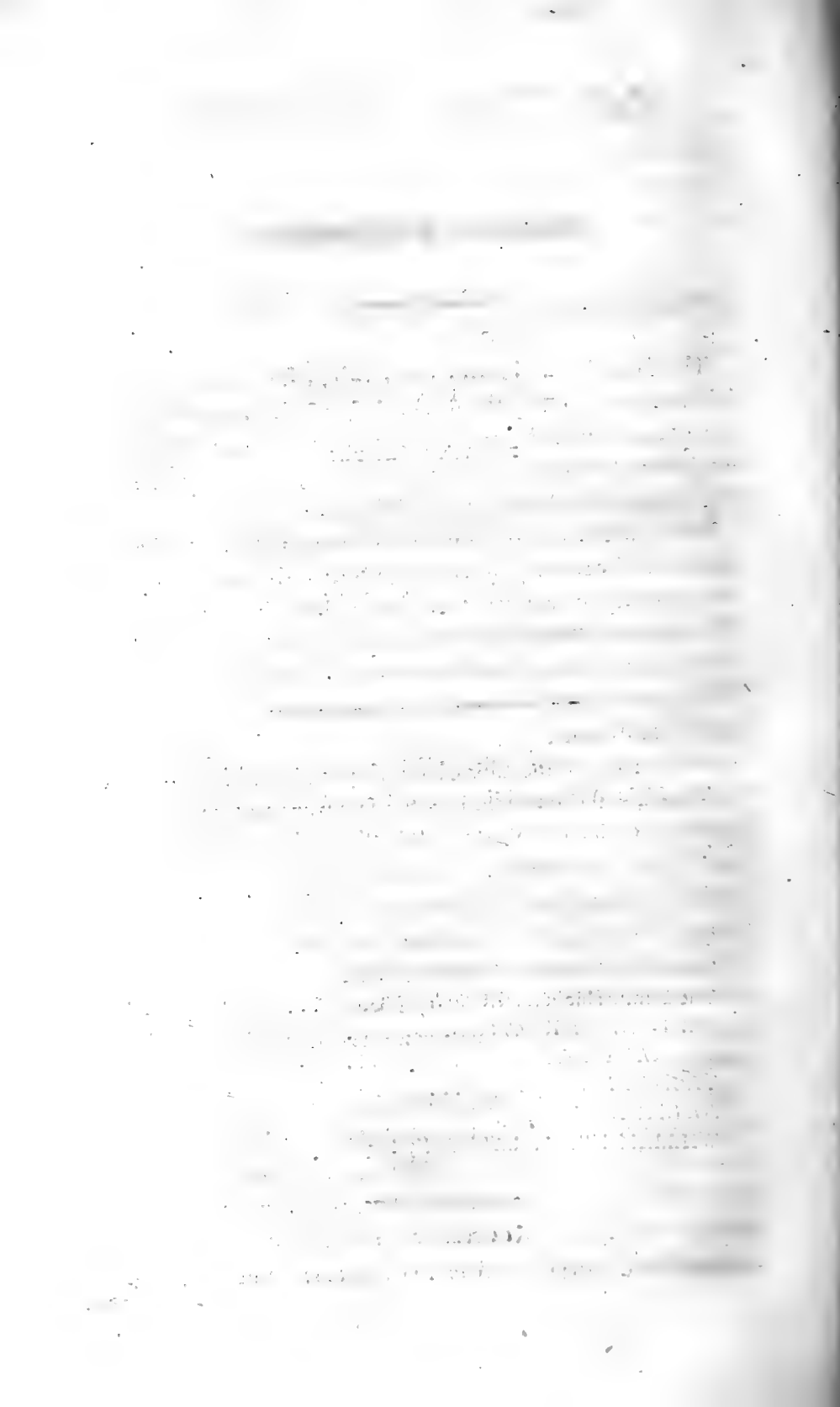
JOSEPH ROYLE, Esq.

WILLIAM HENRY BALDOCK, Esq.



CANTERBURY:

PRINTED BY G. CHAPMAN, KENT HERALD OFFICE, HIGH STREET.



Report of the Committee.



The Committee, in conformity with the annual custom, beg to present to the Members a List of the Lectures which have been delivered since the last Annual General Meeting, an Abstract of the Treasurer's Accounts, and a List of Presentations and Additions to the Library.

The Committee notice with much pleasure the indefatigable zeal of the Lecturers, to whom the Society is much indebted. The diversity of subjects treated of, whilst it shews variety of talent and undiminished resources, cannot have failed to forward the object of the Society's establishment.

The state of the Treasurer's Accounts will be found at the end of the Report.

In adverting to the Librarian's Report, it will be observed that amongst the Presentations the following may be particularised:—Latham's Synopsis of Birds, 10 vols. 4to., Mitford's History of Greece, 4 vols. 4to., by the late Earl Darnley; Biographical Dictionary, 15 vols., 8vo., by the present Earl Darnley; Adriana Istorii Dé suoi Tempi and Gesnerii Bibliotheca Universalis, folio, by Colonel Barrett; Bibliotheque Choisie, 28 vols, 16mo., by the Rev. E. A. Brydges; and 110 Volumes on various subjects, by W. Frend, esq., London.

The Committee are much gratified to find that the augmentation and improvement of the Library, which has been often recommended, and which it was submitted might by united efforts be effected at an inconsiderable sacrifice of trouble and expence, may now be safely and satisfactorily calculated on. And it is with much pleasure they are now

enabled to state, that a Society has been formed, appendant to the Institution, and denominated its Book Society, for this express purpose. It consists already of 54 Members, a list of whom is added to this Report, who pay a small annual subscription, which is applied in the purchase of Books, which first circulate amongst the Subscribers, and are then placed in the Library as the property of the Institution. To this Society the Members of the Institution owe their best acknowledgments, it being formed for the express purpose of improving this department.

The state of the Museum will be found in the Report of the Directors and Curators ; but the Committee cannot refrain from here offering their acknowledgments to those friends through whose liberality the additional Glass-cases in the Museum have been erected.

Several new Members have during the past year been added to the list.

The Committee now resign their authority into the hands of the Members ; and in doing so beg to observe that the Institution still pursues with success the objects of its formation. They have not to call attention to any particular or striking progress made for its advancement during the year in which its management has been intrusted to them ; but this will not be likely to occur, as on its formation it was based on the broad ground of public utility, and its objects were clearly defined. It is a matter of satisfaction to your Committee that it has met with so many instances of flattering approval, as to render any departure from the original views of the Society unnecessary.

In conclusion, they trust that the zeal and energy hitherto displayed will continue to animate its Members, as from its existence and prosperity beneficial results, in many points of view, may be anticipated.

A LIST
OF THE
LECTURES

Delivered since the last Annual General Meeting.



1830.

- Oct. 5—Mr. Wilkinson, on New Zealand.
12—Mr. E. P. Fordham, on Mechanics.
19—The Rev. H. Lacey, on Taste.
26—Mr. J. Brent, jun., on the Progress of Science.
Nov. 2—Mr. Hunt, on the Properties and Phenomena of
Mind.
9—Mr. Phillips, on Optics.
16—Mr. Warman, on Sound.
23—Mr. W. H. Weekes, on the Properties and Combina-
tions of Ammonia.
30—Mr. H. Christian, Jun. on Physiology.
Dec. 7—Mr. W. Masters, on the Principles of Landscape
Gardening.
14—Mr. Wilkinson, on the History of England, from
Henry IV to Henry VII.
21—The Rev. H. Lacy, on the Varieties of the Human
Complexion.

SECOND QUARTER.

1831.

- Jan. 18—Mr. W. J. Cooper, on Natural History.
Feb. 1—The Rev. H. Lacey, on Modern and Ancient Abyssinia.
8—Mr. Warman, on Horology.
15—Mr. Marten, on the Life, Character, and times of
Galileo.
22—Mr. John Brent, jun., on the History of the Arts.

March 1—Mr. W. H. Weekes, on Chlorine, its Combinations, Properties and Uses.

8—Mr. W. Brent, on Amphibia.

15—Mr. W. J. Cooper, on Natural History.

22—The Rev. H. Lacey, on the Origin and History of Alphabetic Writing.

THIRD QUARTER.

April 12—Mr. S. Kingsford, on Electricity.

19 } Mr. Hunt, on the Properties and Phenomena of
26 } the Mind.

May 3—The Rev. H. Lacey, on the Origin and History of Alphabetic Writing.

10—Mr. Warman, on Horology.

17—Mr. W. Brent, on Ichthyology.

24—Mr. Marten, on the Life and Character of General Washington.

31—Mr. W. H. Weekes, on Chlorine, its Combinations, Properties and Uses.

June 7—Rev. J. Blomfield, on Civilization.

14 }
21 } Mr. W. Masters, on Geology.

28—Mr. Comfield, on Optics.

July 5—Mr. Baskerville, on the English Novelists.

T. WILKINSON,

Secretary.

Abstract of the Accounts of the Institution from September 1830, to September 1831.

Received.

	£	s.	d.
Balance in hand on last year's account.....	1	18	1½
Members Annual Subscriptions.....	124	9	0
Donation, T. L. Hodges, Esq. M.P.....	10	0	0
Visitors to the Museum { Public Days 21 19 6 { 34 18 6			
Visitors to the Lectures.....	4	9	0
Sale of Museum Catalogues.....	1	6	0
Use of Lecture Room.....	2	10	0
Public Subscription for erection of New Glass Cases in the Museum.....	94	8	0

Paid.

	£	s.	d.
One Year's Annuity to Mr. Crow.....	50	0	0
One Year's Interest on £1,000.....	50	0	0
The Exhibitor One Year's Salary.....	20	0	0
Ditto Gratuity voted at Annual Meeting, 1830	5	0	0
Ditto for Collecting Subscriptions.....	6	4	3
Insurance from Fire.....	4	6	3
Poor and Parochial Rates.....	5	16	6
Purchase of Books for the Library.....	1	17	0
Printing, Advertising, and Stationery.....	0	19	0
Chemicals and Expenses of Lectures.....	3	0	0
Purchase of Objects for the Museum.....	3	18	8
Preparation of Specimens for ditto, Preservation Glasses, &c. &c.....	9	12	2
Candles and Fire Wood.....	1	1	7
Tyson, Ironmonger, for Wire Window Guard..	1	18	4
Goulden, Turner, for Stands for Museum Specimens.....	1	17	0
Admans, Plasterer, for Work to Library.....	0	19	6
Carriage of Parcels, Postage, Window Blinds, Brushes, and Incidental Expenses.....	8	10	3
Whites and Goulden, for Erecting New Glass Cases.....	92	19	6
Advertising and Circulars relating to Subscription for ditto.....	2	14	0
Balance in the hands of Treasurer.....	3	4	7½

C. WEEKES, Treasurer.

£273 18 7½

£273 18 7½

Donations to the Library.

Earl Darnley—Latham's Synopsis of Birds, 10 vols. 4to.; Mitford's History of Greece, 4 vols. 4to.; Plinii Naturalis Historiæ, 3 vols. 16 mo.

Viscount Clifton—Biographical Dictionary, 15 vols. 8vo.

Colonel Barrett—Adriani Istorii Dé suoi Tempi, 1 vol. folio; Gesnerii Bibbliotecâ Universalis, 1 vol. folio.

Rev. A. Brydges—Bibliothèque Choisie, 28 vols. 16mo.

Mr. J. Fletcher—The Siege of Damascus, and Minor Poems, 1 vol. 16mo.

Mr. Sladden—Woman and other Poems, 1 vol. 8vo.

Mr. W. Masters—Hortus Duroverni, 1 vol. 16 mo.

Mr. John Pout—Ashburton's History of England, 1 vol. folio.

W. Frend, Esq.—3 Folio; 10 Quarto; 89 Octavo Volumes, and 8 Tracts on various Literary and Scientific Subjects.

Mr. G. Wood—Nicholson's Encyclopedia, 11 Nos.

Mr. Blackley—Copies of Deal, Sandwich, and Feversham Charters.

Books added to the Library.

Shakespeare's Plays, 8 vols. 8vo.

Library of Entertaining Knowledge, 10 vols. 16mo.

Mechanic's Magazine, 2 vols. 8vo.

Monthly Review. 3 vols. 8vo.

Butler's Hudibras, 2 vols. 8vo.

Jacob's Annals of Guernsey, Part 1, 8vo.

JOHN POUT,

Librarian.

REPORT

OF THE

DIRECTORS and CURATORS of the MUSEUM.

The Directors and Curators in presenting a Report of the proceedings of the year now closed, call the attention of the Members of the Institution to the Report last published ; by a reference to which, they will be reminded of the anticipations then indulged in, for the improvement of the Museum during the succeeding season. By a careful comparison of the Museum at that period with its present condition, the Members will perceive that those anticipations have been more than realized, and that its appearance and usefulness have alike been improved and extended during the past twelvemonth.

The recent erection of large Glass-cases, which has been effected through the liberality of the Public, has very essentially contributed to the appearance of the Museum, and has given space for new and more complete arrangements both of Birds and Animals to be formed. Those friends who were fearful of the want of space in the building, will now be convinced that future dispositions may be made, that will enable the Museum to contain all that can be collected for a long series of years.

At the formation of the Collection, the system of classification adopted was that of Linnæus, which having comparatively but few subdivisions, was best calculated for the display of a limited number of specimens ; but as the Collection increased, it became capable of illustrating to a still greater extent—it is presumed therefore, that the change of arrange-

ment lately effected, will be found to be far more advantageous to the Student in Natural History, and afford a sufficient warranty for the alteration.

It will not perhaps be out of place, briefly to state the relative merits of the Linnæan and Cuvèrian Systems; which will best shew the object sought by the change.

When Linnæus commenced the study of Natural History, he found it involved in all the obscurity that necessarily arose from the want of method in nomenclature. His primary object was to remedy this defect, and accordingly he established Generic and Specific titles of two words only, instead of a line, or even a sentence which the elder writers often employed for the same purpose—having determined this, he bent his mind to devise a ready method for ascertaining the identical plant or animal that fell under the Naturalist's observation; for which purpose he employed frequently but one character, and that often a very unimportant one, (as the number and position of stamens among Plants,) which was to regulate and determine all the rest. Systems constructed upon this and similar principles are called Arbitrary, or Artificial, and are the very reverse of those now generally adopted by modern Systematists, which are called Natural by way of contradistinction. The nomenclature of Linnæus is excellent, and is accordingly continued to the present day; but his after enquiries were solely directed to the ascertaining the name of the object, and consequently have fallen into disuse. In the Natural system, not one character alone of an Animal or Plant is taken, but a review of the whole, so that during the very time the student is employed in finding out the name of the subject, he is learning its true relation to others in its physiology—he is intimately acquainted with its food and manner of living if an Animal—or its qualities, medicinally or economically, if a Plant. The advantages of the latter mode are so obvious, that no further explanation appears necessary, to account for the changes recently introduced in the arrangements at the Museum.

In conformity with the Natural System, Mr. John Friend has now entirely re-arranged the Birds agreeably to the *Regne Animal* of Cuvier; by which the connecting links of the various assemblages become more apparent, and a gradation is preserved that renders the Cases more instructive and entertaining.

The same system has also been pursued by the Curator in the classification of the Mammalia, which now form a very imposing part of the Collection. Many of the skins presented to the Museum by His Excellency the Governor of Madras, (Right Hon. S. R. Lushington,) and which were noticed in the last Report, have been recently set up, and give a striking effect to the room, that smaller specimens would be incapable of producing—these will long attest that gentleman's liberality, and also the interest he attaches to the intellectual aspirations of the Citizens he formerly represented. The Society is greatly indebted to Capt. Charles Bentham, R. N. for the skin of a very beautiful young Lion from Barbary, measuring ten feet, and with a mane about half grown---this, with the Bengal Tiger, furnish the most striking examples of the Caverian Order, Carnassiers.

The contributions in Ornithology have been extensive as well as highly valuable, for during the past season many Genera have been supplied: and this department may now not alone be considered the most beautiful in the Museum, but also better illustrated than any other branch of Natural History. The extraordinary structure of the Secretary or Snake-Eater, (*Falco serpentarius*) presented by Mr. Rochford, cannot fail to arrest attention; nor less so, the Superb Menura (*Menura Novæ Hollandiæ*) from the peculiar formation of the tail feathers; and the Caledonian Night Heron, (*Ardea Caledonica*) which for softness and beauty of coloring has no equal among its congeners; which latter are all presents from Capt. Stead. A very beautiful and rare little water-bird, the gift of G. C. Oxenden, Esq. (from whom

some of the finest specimens that adorn the Cases have been received,) the Madagascar Teal (*Anas Madagascariensis*) also deserves particular notice. Dr. Chisholm has added a most beautiful male Golden Pheasant, (*Phasianus pictus*) which was bred by him in Canterbury; and E. S. Curling, Esq. to whom the Society is largely indebted for previous presentations has furnished a specimen of the Wandering Albatross, (*Diomedea exulans*) which is the largest of all known water-birds.

The friendly interchange of Specimens with the Chatham Museum will be hailed by the Members with pleasure. During the past season the collection has been enriched with the Cape Promerops (*Upupa Promerops*), Orange-throated Lark (*Alauda Capensis*), Tropic Bird (*Phaeton æthereus*), and some other birds from that source: and the Curators have been enabled to return a few duplicates, by which each Institution has been improved, and the end of Science—the advancement of knowledge, and increase of good feeling promoted.

In a record of this kind it would be unpardonable to omit mention of the assistance the Society has received from the talent of two of its own Members, E. P. Thompson, Esq. of Dover, and Mr. Edw. Beasley, of Canterbury; who have each by their success in Taxidermy, contributed to the variety and splendor of the Ornithological Cases.

A most valuable addition to the Class Reptilia has been made by the liberality of Richard Tomson, Esq. of Ramsgate, being an Alligator (*Lacerta Alligator*) nearly 8 feet long, with its dentition complete, and having its scales in the most beautiful state of preservation. A stuffed specimen of the Guana (*Lacerta Iguana*) has also been received from the Misses Dorset.

In Conchology the presentations have been less numerous than during the preceding season; but one, the Swallow Shell (*Mytilus hirundo*) from the Cabinet of Mrs. R. Small, merits notice from its singularity and beauty.

A small Collection of Shells was set apart during the last year to elucidate the System of the Chevalier de la Mark. It is hoped by the next Report to announce the change in the whole of the Conchological Series, for in no part of Natural History, is the advantage of the natural over the artificial system, more apparent than amongst Shells.

The same principles that have been adopted in the other branches of Natural History are found equally valuable in Entomology, where the kind of food is invariably determined by the grand division in which the Insect is placed: thus the British Insects are now arranged by Mr. Newport according to the system of Stephens, the most recent as well as the best authority on this subject. The principle upon which this system has been established, is the dividing of Insects into two grand Series according to their natural affinities—first, Mandibulata, comprising those furnished with jaws and instruments of manducation, and which feed on solid parts of animals and vegetables :—and second, Haustellata, comprising those Insects that have the mouth tubulated in the form of a rostrum or sucker and without any real manducatory organs: the food of this latter class consists entirely of Honey or fluids derived from vegetable or animal substances. The Genera comprised under these two grand divisions are so arranged as to form nearly a Cycle, those at the end of the second, (Haustellata) being nearly related to those at the beginning of the first (Mandibulata).

In the department under the care of Mr. John Brent jun. the Implements, Weapons &c. of various nations and tribes of uncivilized people, the specimens are now placed in a manner that cannot fail to be interesting even at a cursory glance. The plan pursued has been to commence the Series with the most rude attempts of workmanship in wood only; afterwards are placed others in which wood is used with fish-bones tied on with braidings of grass &c.; then follow Paddles &c. in which a more elaborate carving is shewn; and lastly, those

where the advance of Art is more conspicuous by the introduction of Metal.

Mrs. Gordon has added an Indian Painting, which is highly valuable as proving the high state of the Art amongst the natives of that country—the subject of which is the supplication of the good spirit to the evil one.

The Report must not be closed without again introducing the name of E. S. Carling, Esq. who has contributed a most striking object in the head of a New Zealand Chief. The mode of preservation adopted by these rude people, very nearly resembles that of the Ancient Egyptians, at least as far as the Head is concerned, but it is not known that they have made any attempts to preserve the whole of the body, as was formerly common in Egypt. The subject presented has a profusion of glossy black and curled hair, which is in a perfectly natural state; the skin of the face is of a yellowish brown, on which are dark and curving lines, so disposed as to harmonize with the muscular direction of the face. Could the useless cruelty of the practice be separated from the mind, it must be admitted, that a considerable approach to Taste has been exercised, in the manner in which the tattooing has been effected.

Thus upon a Summary of the year's proceedings, the Directors have pleasure in recording the general interest the Museum continues to excite, which is evinced by the number and value of additional gifts; and also the talent and activity displayed in the Museum by its Officers; who, in all the changes that have been effected, have had a constant view to the interests of the Institution, by facilitating the study of the Sciences, and by rendering their acquirement more pleasing, more comprehensive, and consequently more useful.

LIST OF DONATIONS

TO THE

MUSEUM.

MAMMALIA.

Felis Leo (Lion) young Male—Algiers
 Three Skins—New Holland—viz. Ornithorynchus fuscus, Cuv. (Duck billed Platypus) 2 specimens—and Petaurista Taguanoides, Cuv. (Petaurine Opossum)
 Dasypus Peba, Cuv. (The Peba or pig-headed Armadillo)
 Cebus lunatus, Cuv. (Spectacle Sapajou)—
 Dasyprocta acuta, Cuv. (Agouti or long-nosed Cavy)

Donors.

Capt. C. Bentham, R.N.

 Capt. Stead
 Misses Dorset

 Mr. Atkins

BIRDS.

Fourteen Skins (New Holland) viz. Oriolus regens: Meliphaga chrysocephala, Tem. (Regent bird)—Menura Novæ Hollandiæ (Superb Menura) male and female—Merops Phrygius (black and yellow Bee Eater) 2 specimens—Motacilla cyanea (Superb Warbler)—Merops Philippinus (Philippine Bee Eater)—Scythrops psittaceus (New Holland Channel Bill)—Alcedo tribrachys (Azure Kingfisher)—Psittacus pulchellus (Turcosine Parakeet)—
 —Ardea Pacifica (Pacific Heron)—
 Ardea Caledonica (Caledonian Night Heron)—Anas lobata (Lobated Duck)—
 —and Platalea leucorodia (Spoonbill)—
 Also Procellaria Capensis (Pintado Petrel)
 Diomedea exulans (Wandering Albatross)
 Anas Crecca (Teal) Anas clangula (Golden Eye) female
 Falco serpentarius (Secretary or Snake-eater)
 Corvus albicollis (White-necked Crow) (stuffed)
 Certhia familiaris (Common Creeper) stuffed
 Ampelis garrulus (Waxen Chatterer)
 Ardea stellaris (Bittern)

Capt. Stead
 E. S. Curling, Esq.

 Mr. J. Wood

 Mr. Rochford
 Mr. T. Kingsford, jun.
 Mr. Fostall
 Mr. Knight

- Colymbus septentrionalis** (Redthroated Diver)
Phasianus pictus (Painted or Gold Pheasant)
 male—**Loxia oryzivora** (Java Grosbeak)
 female
Colymbus Troile (Foolish Guillemot) young
Anas Madagascariensis (Madagascar Teal)
 stuffed
Diomedea exulans (Wandering Albatross)
 young
Caprimulgus Europæus (European Goat-sucker)
Upupa Promerops (Cape Promerops).—**Alauda Capensis** (Orange-throated Lark)—and **Phaeton æthereus** (Common Tropic Bird) stuffed. Also **Tanagra Mexicana** (Black and blue Tanager) and another Foreign Skin
Corvus Pica (Magpie) — **Alauda arvensis** (Skylark)—**Loxia chloris** (Green Linnet)—**Fringilla Montana** (Mountain Sparrow) and another specimen—stuffed
Falco buteo (Buzzard)
Corvus glandarius (Jay) stuffed
Strix stridula (Brown Owl)
Falco Milvus (Kite)—**Strix stridula** (Brown Owl)
- Mr. C. C. Cottrell
 Dr. Chisholm
 Mr. G. Newport
 G. C. Oxenden, Esq.
 Capt. Thorpe, 89th
 Mr. J. Abbott, jun.
 Chatham
 Philosophical Institution
 Mr. E. Beasley
 F. A. Tomlin, Esq.
 Mr. T. Davey
 Mr. R. Gordon
 Mr. F. Graham

REPTILES.

- Lacerta Alligator** (Alligator) stuffed
 One Foreign Snake
 One ditto
Lacerta Chamælion (Chamælion)
 Ditto ditto
Rana ventricosa (Bull-frog) stuffed
- Rd. Tomson, Esq.
 E. S. Curling, Esq.
 Rt. Hon. S. R. Lushington
 George Dorset, Esq.
 Mr. A. Payn
 Mr. W. Brent

FISH.

- Exocætus volitans** (Flying Fish)
- Mr. C. Collard

INSECTS.

- | | | |
|---------------|---------|----------------|
| 120 Specimens | British | Mr. G. Newport |
| 1 Specimen | ditto | Mr. Branford |
| 1 Ditto | ditto | Mr. G. Fortune |
| 1 Ditto | ditto | Mr. J. Crippen |

Scorpio Europæus and **Scolopendra morsitans**

Monoculus (King Crab) young

Aphrodita aculeata (Sea Mouse)

George Dorset, Esq.
Mr. C. Collard

Mr. C. Collard

SHELLS.

- | | |
|--|----------------------|
| 1 Foreign Specimen (Mytillus Camelli) | J. Furley, jun. Esq. |
| 1 Ditto (Mytillus hirundo) | Mrs. R. Small |
| 1 Ditto (Venus litterata) | Mr. I. Friend |

Various Specimens (<i>Helix detrita</i>)	S. Kingsford, Esq.
Very large specimens of <i>Ianthina</i>	Mr. Adams
2 Specimens of <i>Venus gallina</i> , and 2 of <i>Cypræa Zebra</i>	Mr. T. Weekes
2 Foreign Specimens (<i>Chama hippopus</i> and <i>Spondylus aurantiacus</i>) young	Miss I. Masters
2 Ditto (<i>Cypræa annularis</i> and <i>Voluta Caffra</i>)	Mr. J. Davey
2 Ditto (<i>Haliotis</i>)	R. Royle, Esq.
2 Ditto (<i>Nerita tessellata</i>)	Mrs. H. Croasdill

ZOOPHYTES.

Specimen of <i>Spongia ventilabrum</i> (Hardy Island) and 2 specimens of Fungi	Capt. Stead
Specimen of <i>Echinus mammillatus</i>	Mr. W. Masters
Specimen of <i>Madrepora ramea</i>	Mr. Mockett

FOSSILS.

5 Specimens of <i>Echinus</i> (<i>Cydaris papillata</i>)	Miss S. Plumtre
1 <i>Echinus</i> in Flint	Miss E. Gibbs
2 Chalk Fossils	Mr. T. Thurston
1 Specimen of Fern	Chatham Phil. Institution
3 Specimens	Mr. W. Benstead
1 Specimen	Mr. Robinson

MINERALS.

36 Volcanic Specimens (Isle of Ascension)	Capt. Stead
13 Specimens	Mrs. Amherst
3 Ditto	Misses Dorset
2 Ditto	Chatham Phil. Institution
1 Specimen	Miss E. Gibbs

COINS.

3 Roman Copper—1 English Silver	Mrs. Amherst
1 English Silver	Mr. I. Wraith
1 English Copper	Mr. G. F. Smith
3 English Silver—1 Spanish Silver	Mrs. Duckworth
2 English Silver	Mr. G. B. Foreman
1 Roman Copper—2 old English Copper	Mr. W. Masters
1 Copper Medal	G. Bedford, Esq.
1 Ditto	Mr. Hengler

ANTIQUITIES.

Elegantly ornamented Roman Style	Mrs. W. Masters
Roman Ring	Mrs. Duckworth
Ancient Key (St. Augustine's Monastery)	Mr. S. King

ILLUSTRATIONS

OF THE MANNERS AND CUSTOMS OF DIFFERENT NATIONS.

1 Large Paddle (New Zealand)—1 Bow and 6 Arrows (Solomon Islands)—1 Shield, 2 War Clubs, and 1 Basket (Port Stephens)	Capt. Stead
---	-------------

Indian Painting—Instrument used in Boxing
by the natives of Madagascar—and West
Indian Thief-taker

2 Malay Kreis

3 Implements of War, and Wooden Spoon
(Fernando Po)—Fan (Demarara)

Mrs. Gordon

George Dorset, Esq.

Misses Dorset

MISCELLANEOUS.

12 Specimens of Vegetable Skeletons

3 Teeth of Sperm Whale

Part of the Skin of an Alligator, tanned—and
portion of ditto made into and worn as a
Shoe

Foreign Bird's Nest—Small Elephant's Tusk

4 Burmese Figures

Tooth of the Rhinoceros

Mrs. Amherst

Capt. Stead

Mr. I. Fraser

Misses Dorset

Mr. F. F. Cobb

Miss E. Gibbs

Preserved Head of a New Zealand Chief

E. S. Curling, Esq.

WILLIAM MASTERS, Curator.

JOHN FRIEND, Secretary.

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	T. Davey

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3. Mr. J. Friend	7. Mr. G. Newport
4. Mr. W. Brent	

Secretary—Mr. John Friend
Treasurer—Mr. C. Weekes
Exhibitor—Mr. T. Davey

Committee appointed for the year ensuing.

1. John Breht, Esq. (Mayor)	And the following Members, by virtue of their Offices:—
2. Mr. Alderman Snoultten	1. Mr. T. Wilkinson
3. Mr. Alderman H. Cooper	2. Mr. Wm. Masters
4. Mr. T. Hart	3. Mr. I. Friend
5. Mr. H. K. Nisbett	4. Mr. C. Weekes
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7. Mr. J. Brent, jun.	6. Mr. S. Phillips
8. Mr. J. Weeks	7. Mr. H. Warman
9. Mr. W. Taylor	
10. Mr. W. J. Cooper	

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John Kidd, Esq. M.D. Regius Professor of Physic in the University of Oxford.
The Reverend William Buckland, D.D. Professor of Mineralogy, Oxford.
The Right Hon. Lord Tenterden, Lord Chief Justice
Sir Anthony Carlisle, F.R.S. Surgeon Extraordinary to the King.
General Miller.
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The Rt. Hon. Lord Sondes	Mr. Alderman H. Cooper
The Rt. Hon. Visc. Fordwich, M.P.	Mr. George Ash
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John Brent, Esq.	

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 Keen, Stephen
 Keen, Albert
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 Kingsford, Sampson
 Kingsford, Henry
 Kingsford, Samuel

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 Robinson, —

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T. WILKINSON,

Secretary.



CANTERBURY:

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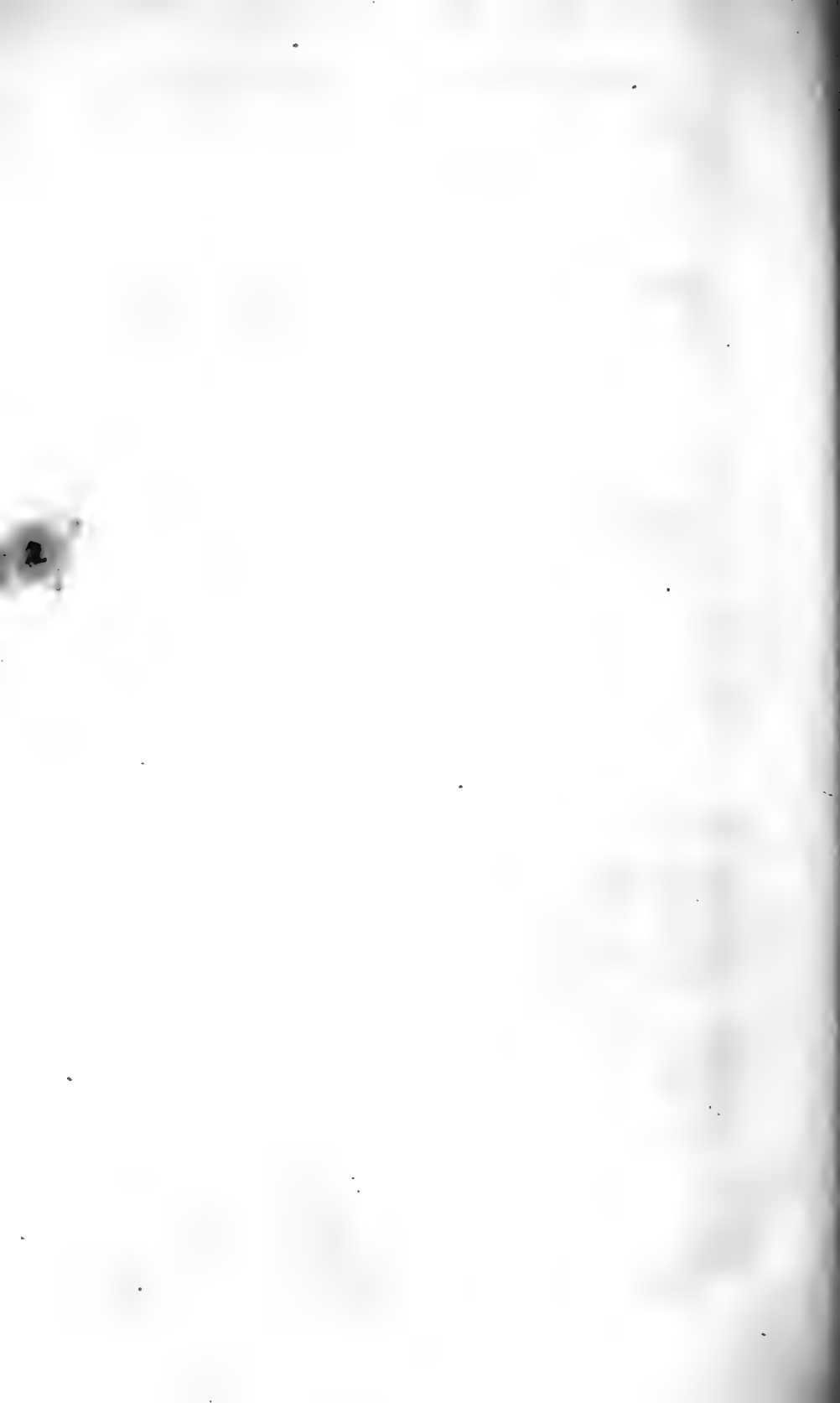
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ANNUAL REPORT

OF THE

CANTERBURY

Philosophical and Literary

INSTITUTION,

PRESENTED AT THE

ANNUAL GENERAL MEETING,

OCTOBER 16TH, 1832.

“ ——— Ignorance is the curse of God,

“ Knowledge the wing wherewith we fly to Heaven.”

Patrons,

The Right Worshipful the MAYOR of CANTERBURY,
(for the time being.)

The Right Honourable the EARL of DARNLEY.

The Right Honourable the EARL of GUILFORD.

The Right Honourable LORD SONDES.

The Right Honourable VISCOUNT FORDWICH, M. P.

The Right Honourable S. R. LUSHINGTON.

The Honourable RICHARD WATSON, M. P.

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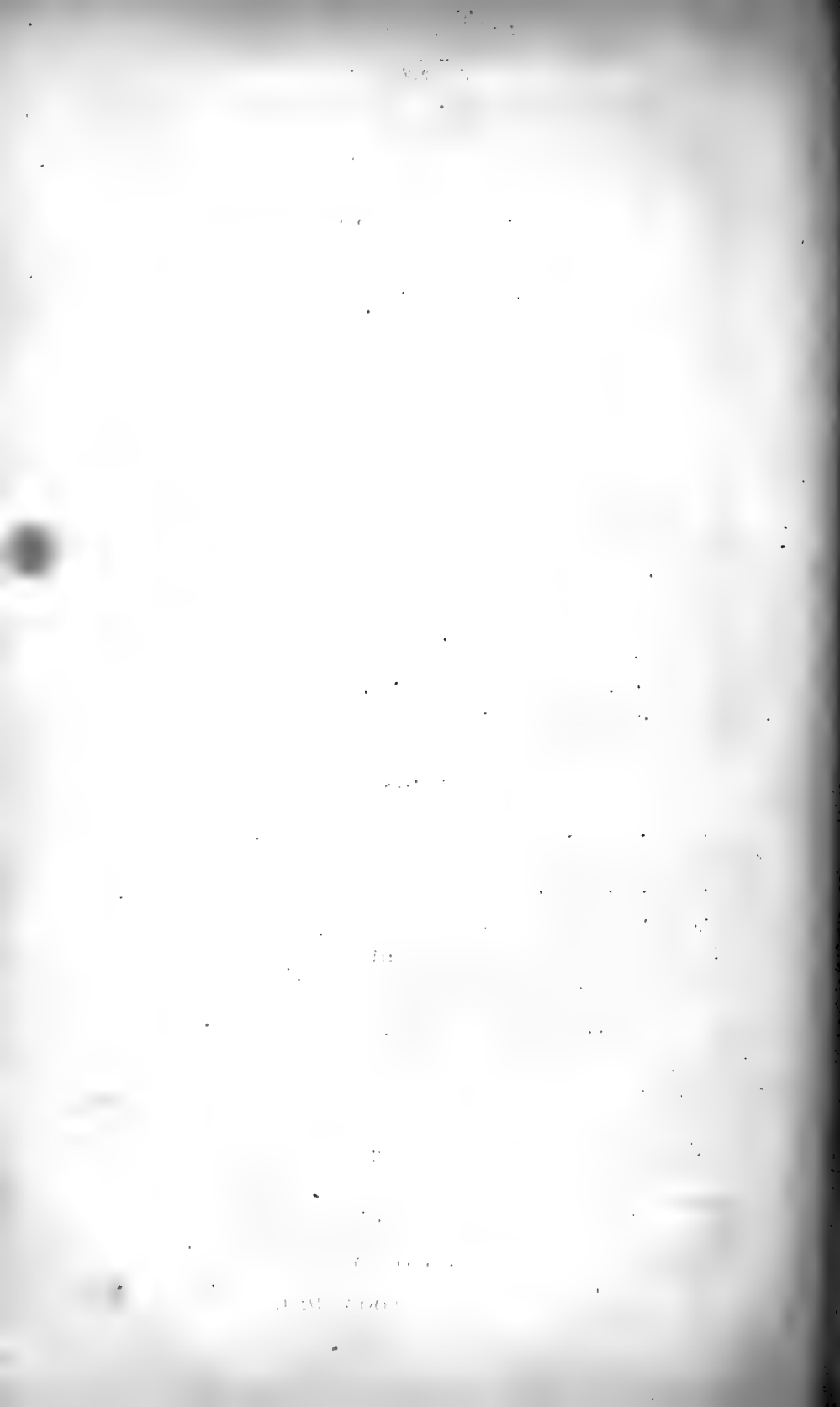
JOSEPH ROYLE, Esq.

WILLIAM HENRY BALDOCK, Esq.



CANTERBURY:

PRINTED BY ELIZABETH WOOD, 9, HIGH STREET.



REPORT

Of the Committee.



The period for which the Committee were appointed having expired, they beg to present to the Members the usual Summary of Lectures, with an Abstract of the Treasurer's Account, and a List of Presentations and Additions to the Library.

The Committee were enabled to arrange the delivery of Lectures during the past year, and recommend to the especial thanks of the Members those Gentlemen whose kind exertions empowered them to do so. The deviation from the prescribed order of the Lecture List, which has in some instances, to the regret of the Committee, occurred, must with every previous care sometimes happen, the Lectures being dependant on so many unforeseen circumstances.

The Treasurer's Accounts will shew the amounts of Receipts and Payments during the past year.

The Librarian's List will be perused with satisfaction. The Presentations are valuable ; and the additions made by the Book Society connected with the Institution, are a flattering earnest of the benefit to be anticipated by the formation of that Society. The Committee have much pleasure in stating that a very desirable object, the publication of a new Catalogue of the Library, only awaits the sanction of the Members to place it in their hands.

A very gratifying proposition will be submitted to the Members, to allow the Library to be opened as a Subscription Reading Room, to which the Committee anticipate their ready assent. It will be proposed that Non-Members be permitted to become Subscribers. It is hoped that this measure will advance the general interests of the Institution.

The contemplated publication of the Library Catalogue prevents the Committee from dilating on many subjects connected with the present state, and future prospects of the Institution. And they will therefore only call the attention of the Members to the circumstances of the formation of the Book Society, and to the proposed opening of a Subscription Reading Room, as evidences of the capabilities of the Institution, which, by the united exertion and patient perseverance of its Members and Friends, may in a few years be fully developed.

Committee

Appointed for the year ensuing.

S. Kingsford, Esq. (Mayor)	And the following members by
Mr. Alderman Bient	virtue of their offices.
Rev. J. Blomfield	
Dr. Burt	Mr. T. Wilkinson
Mr. T. Hart	W. Masters
John Brent	J. Friend
J. Weeks	C. Weekes
W. Taylor	J. Pout
W. H. Timnell	S. Phillips
T. Austin	H. Warman

Summary of Lectures.

1831-2.

- Oct. 4—Annual General Meeting.
11 } Mr. T. Dowton, on Phrenology.
18 }
25—Mr. Hunt, on the Pleasures of Science.
- Nov. 1—Mr. Masters, on the English Poets.
15—Mr. Taylor, on the Natural History of the Mouth and Teeth.
22—Mr. Warman, on Mechanics.
29—Mr. Newport, on the Anatomy and Physiology of Insects.
- Dec. 6—The Rev. John Blomfield, on Civilization, with reference to the Progress of Agriculture.
13—Mr. Hunt, on the construction and uses of the Steam Engine.
20—Mr. Marten, on the Life and Character of General Washington.
- Jan. 10—M. Sharpe, Esq. on Gesture, in reference to the Fine Arts.
17 } Mr. T. Dowton, on Phrenology.
24 }
- Feb. 14—Mr. Taylor, on the Natural History of the Mouth and Teeth—(continuation).
28—The Rev. J. Blomfield, on Civilization, with reference to the Progress of Agriculture—(continuation).
- March 13—Mr. W. Masters, on Conchology.
27—Mr. Marten on the Progress of Knowledge.
- April 10—Mr. Read, on Gothic Architecture.
17—Mr. W. Masters, on Conchology.
24—Dr. Burt, on the History of the River Niger.
- May 1—Mr. Hunt, on the History of the Steam Engine
8—Mr. Hunt, on the Results of Steam Machinery.
15—Mr. Warman, on the Reasoning Faculties.
22—The Rev. J. Blomfield, on the Benefits of Civilization, as promoted by popular Education.
29—M. Sharpe, Esq. on Gesture, in reference to the Fine Arts.
- June 5—Mr. Marten, on the Life of Neibuhr, the Arabian Traveller.
12—Mr. Phillips, on Optics.
19—Mr Masters, on Botany.

T. WILKINSON,

SECRETARY.

Abstract of the Accounts of the Institution from September 1831, to September 1832.

<i>Received.</i>			<i>Paid.</i>		
	£.	s. d.		£.	s. d.
Balance in hand on last year's account.....	3	4 7 $\frac{3}{4}$	One Year's Annuity to Mr. Crow.....	50	0 0
Members' Annual Subscriptions.....	120	19 0	One Year's Interest on £1000.....	50	0 0
Visitors to the Museum { Public days 17 14 } { Private days 12 19 }	30	13 0	The Exhibitor One Year's Salary.....	25	0 0
Visitors to the Lectures.....	3	10 0	Ditto for collecting Subscriptions.....	6	0 9
Sale of Museum Catalogues.....	1	11 0	Insurance from Fire.....	4	6 3
Use of Lecture Room.....	1	1 0	Poor and Parochial Rates.....	6	8 8 $\frac{1}{2}$
Balance due to the Treasurer.....	6	4 6 $\frac{1}{2}$	Expences of Lectures... ..	1	8 0
			Preparation of Specimens for Museum....	3	15 6
			Purchase of Lamps and Brushes... ..	0	17 4
			Repairing Organ in Museum.....	0	15 0
			Repairing Electrical Machine.....	1	12 0
			Freight and Carriage of Packages from Foreign		
			Correspondents.....	1	12 6
			Hacker, Painting, &c.....	7	3 6
			Linford and Weeks, for Chemicals.....	0	12 1
			Bilbe, for Candles.....	0	7 6
			Postages, Carriage of Parcels, & Incidental Expenses	5	4 1
				<hr/>	<hr/>
				£167	3 2 $\frac{1}{4}$

C. WEEKES, Treasurer.

Donations to the Library.

Mr. Wm. Masters—Life of General Miller, 2 vols. 8vo.

Dr. Carter—Antiquities of Pompeii, 1 vol. folio. ; Plates to ditto, 1 vol. ditto.

Mr. Thos. Austin—Bower's History of the Popes, 2 vols. 4to ; Chatterton's Poems, 1 vol. 8vo. ; Dunbar's Essays on the History of Manthino, 1 vol. 8vo. ; Playfair's Statistical Breviary, 1 vol. 8vo. ; Gregory's Comparative View of the State and Faculties of Man, compared with those of the Animal Kingdom, 1 vol. 16mo. ; Voltaire's Life of Charles XII, 1 vol. 16mo. ; Hudibras, 3 vols. 16mo. ; Le Droit Public de l'Europe, 2 vols. 16mo.

Dr. Acton, R. N.—Dissertation on Malaria, Contagion, and Cholera, 1. vol. 8vo.

Mr. Phillips—Glassie Philologia Sacea, 1 vol. 8vo.

Mr. W. Sharpe, St. George's—Le Malheur et la Pitie, 1 vol. 8vo.

A Friend to the Institution—History of the Battle of Agincourt, 1 vol. 8vo.

Charles William Viscount Milton, F. R. S. &c.—First report of the British Association for the Advancement of Science, 1 vol. 8vo.

Lord Teynham—(A Pamphlet, How it must work)

From the Book Society of the Institution—20 Octavo vols., various ; 38 Duodecimo do. do.

Additions.—38 Octavo vols. various ; 50 Duodecimo vols. ditto.

JOHN POUT.

LIBRARIAN.

REPORT

OF THE

DIRECTORS AND CURATORS OF THE MUSEUM.

The Directors and Curators of the Museum congratulate the Members of the Institution on the general augmentation that the collection under their charge annually receives, not in one department alone, but in the whole. Not a season passes but some of the specimens collected at an early period of the establishment are removed, and give place to others that are superior—many new ones are introduced—and thus the whole series is in progress of a gradual but decided improvement.

In the Fossil department the Museum has received a treasure from Mr. Henry Weekes (the Sculptor), not easily obtained—a perfect cast of one of the most extraordinary extinct animals (*Plesiosawurs*) that has hitherto rewarded the researches of the Geologist.

Many highly curious subjects in Comparative Anatomy have been presented by W. D. Couchman, Esq., collected from the interior of South America, expressly for this Museum, and prepared for the Cases by himself.

Numerous additions to the Birds have been made during the past year, for which the Society is chiefly indebted to two of its Honorary Members, E. S. Curling, Esq. and W. D. Couchman, Esq., through whom the collection has been considerably enriched; and the duplicate Skins have enabled the Curators to set up a great number without additional expence to the Institution.

Various specimens of Minerals and Articles of Domestic Manufacture, from Otaheite and the Southern Islands, have been forwarded by a valued friend of the Institution—General Miller.

The Head of a New Zealand Chief, curiously tattooed, (and for the tribe evidently of considerable beauty) has been received from Captain George Deedes.

The thanks of the Members are especially due to the before-mentioned Donors as well as to Miss Sophia Frend, for a valuable collection of Casts of the Coins from the Greek Islands and Colonies, many of which attest the high state of the fine arts of Antiquity, as compared with the British Coins struck previously to the commencement of the present century.

A new season has now commenced, and the Directors and Curators feel pleasure in assuring the Members of the Institution, that judging both from the past and from the reiterated promises of future support, a similar increase to the Collection in its onward course may reasonably be anticipated.

List of Donations to the Museum.

Quadrupeds.

Chrysochloris Capensis (Cuv.) (Cape Mole)
Lemur Macaco (Prosimia Macaco Cuv.) Ruffed
Lemur
3 Skins, viz. Monkey, and 2 varieties of Tiger
Cat—Demerara

Donors.
Lieut. S. Hilton, R.N.
Mr. W. Sharp
W. D. Couchman, esq.

Birds.

100 Skins—Demerara—comprising specimens
of Falco ornatus (Crested Goshawk) Falco
aurantius (Orange-breasted Hobby) Lanius
sulphuratus (yellow bellied Shrike) Psittacus
Macao (Red and blue Macaw) Psittacus
Sosove (Cayenne Parakeet) Alcedo bico-
lor (Rufous and green Kingfisher) Cuculus
Cayanus (Cayenne Cuckoo) Cuculus tran-
quillus (Cayenne black Cuckoo) Galbula
paradisea (Paradise Jacamar) Oriolus leu-
copterus (Whitewinged Oriole) Picus hi-
rundinaceus (Lesser black Woodpecker)
Trochilus pella (Topaz Humming-bird) and
various specimens of Toucans, Parrots,
Kingfishers, Chatterers, Motmot, Rock
Manakin, Tanagers, Creepers, Humming-
birds, &c. &c. &c.

W. D. Couchman, esq.

33 Skins—New Holland—comprising specimens of *Gracula* (*Ptilorynchus* Mac Leyii Cuv.) *Satin Grackle*, male and female, *Oriolus* (*Meliphaga chrysocephala* Cuv.) *Regent-bird*, *Psittacus Pennantii* (*Pennant's Parrot*) *Psittacus haematopus* (*red breasted Parrot*) *Psittacus scapulatus* (*Tabrian Parrot*) *Certhia sanguinea* (*Crimson Creeper*) *Pipra punctata* (*Speckled Manakin*) *Pipra striata* (*Striped-headed Manakin*) &c. &c.

Tringa ochropus (*Green Sandpiper*) *Cuculus canorus* (*Cuckoo*)

Charadrius calidris (*Sanderling*)

Phasianus colchicus (*Common Pheasant*—Female in male plumage)

Ardea Stellaris (*Bittern*)

Colymbus arcticus (*Great Northern Diver*, female) *Colymbus stellatus* (*Speckled Diver*)

Fulica atra (*Coot*)

Falco nisus (*Sparrow Hawk*)

Anas acuta (*Pintail*) male and female

Colymbus cristatus (*Great crested Grebe*)

Hæmatopus ostralegus (*Pied oyster-catcher*)

Procellaria pelagica (*Stormy Petrel*) 2 specimens old and young—stuffed

Rhamphastos Toco (*White-throated Toucan*) stuffed—*Sturnus cinclus* (*WaterOuzel*) stuffed

Merops erythropterus (*Redwinged Bee Eater*) stuffed—*Todus obscurus* (*Dusky Tody*) stuffed

Upupa epops (*Hoopö*)

Anas Coromandelicus (*Coromandel Teal*) and *Turdus auratus* (*Gilded Thrush*)

Caprimulgus Europæus (*Goatsucker*)

Falco buteo (*Buzzard*) stuffed

Caprimulgus Europæus (*Goatsucker*)

Motacilla phœnicurus (*Redstart*)

Fish.

Exocoëtus volitans (*Flying-fish*)—*Diodon Hystrix* and 2 specimens of *Syngnathus Hippocampus* (*Pipe-fish*)

Insects.

100 Specimens—China

1 British Specimen

1 Ditto

Aphrodita aculeata (*Sea Mouse*)

Crustaceæ.

Monoculus polyphemus (*King Crab*) young—2 specimens

1 *Asterias pentaphylla*

Shells.

1 Foreign specimen (*Cypræa Mauritiana*)

1 *Concholepas*—1 *Patella equestris* (*Cup Limpet*) and 5 other foreign specimens

Various specimens

E. S. Curling, esq.

James Wall, esq

Mr. J. Craump.

Edward Hughes, esq.

Rt. Hon. Lord Somes

Mr. S. Jones

Mr. Thomas Davey

Mr. J. Chaffey

Mr. Crayden

Mr. T. Boorman

Mr. J. Wood

Mr. W. Masters

Mr. J. Friend

Mr. Edward Beasley

Mr. Knight

Mr. E. P. Thompson

Mr. Henniker

R. M. Mount, esq.

Mr. R. Tassell

Mr. Rutter

J. Furley, jun. esq.

R. M. Mount, esq.

Mrs. Inman

Rev. M. H. Lloyd

Mr. Barton

J. Furley, jun. esq.

R. Friend, esq.

Mrs. Mapleton

Mr. T. Weekes

Miss Brent

Zoophytes, &c.

Large specimen of *Madrepora muricata*
Specimen of Cup *Madrepore*

John Gill, esq.
J. Furley, jun. esq.

Comparative Anatomy.

9 Skulls of Quadrupeds, viz. Tapir, Deer, Monkey, Paca, Agouti, Opossum, Ant-eater, Armadillo, and Sloth, Skull of Crocodile, Bony Shell of Armadillo, Larynx of Baboon, Fore and Hind Feet of Tapir—Demerara.

Head and Horns of Spanish Sheep
Skull of Porpoise

W. D. Couchman, esq.
Mr. Boyd
Edw. Kingsford, esq.

Fossils.

Cast of *Plesiosaurus dolichodeirus*
Large specimen of Fossil Wood
7 Chalk Fossils
1 Specimen from Kentish Rag
Specimen of Fossil Wood
1 Fossil Tooth of Shark
Several specimens of Fossil Terebratula

Mr. H. Weekes.
T. L. Burch, esq.
Mr. J. Dadd.
Mr. Apsley.
Mr. Clark.
Mr. W. Masters.
Mr. Back

Minerals.

1 Specimen of Iron Pyrites
Very beautiful specimen of Chrystal enclosing Shells, &c,
Various volcanic specimens—Owyhee
12 Specimens
Various specimens—Nova Scotia

Mr. J. Uden.
Mr. Parrinton.
General Miller.
Mr. J. Mockett.
Mr. I. W. Woodworth

Coins, &c.

1 English Silver Coin
1 Roman Copper
2 Roman Copper
1 British Copper
1 Roman Silver
61 Greek and Roman Copper and 1 Silver
6 Roman Copper
Various small Roman Copper Coins, 1 Roman Silver, 1 English Silver
2 English Copper
1 Roman Copper
Two Medals
1 ditto
60 Casts of Coins of the Greek Colonies

Mr. W. Sharp.
Mr. Phillips.
Mr. H. Collard.
Mr. J. Friend.
Rev. G. P. Marsh.
Mr. O'Brien.
Mr. Harris.
Mr. W. Masters.
Mr. Back.
Rev. M. H. Lloyd
Mrs. Wood.
Mr. G. S. Robinson.
Miss S. Freund.

Illustrations

OF THE MANNERS AND CUSTOMS OF
VARIOUS NATIONS.

Canadian Canoe and 2 Paddles
2 Large Fans—Owyhee—4 ornaments of Feathers

W. Curling, esq.
N. J. Maynard, esq.

3 Ornamented Gourds used as Water vessels,
New Zealand—6 Specimens of Bark Cloth,
Large specimen of Matting from Phor-
mium tenax, Necklace of Human Hair,
&c. &c. Otaheite—one carved ivory Walk-
ing Stick

General Miller.

Indian War Club, Country Hatchet, Head
Dress of Feathers, Specimens of Thread,
&c. Demerara

W. D. Couchman, esq.

Burmese religious Manuscript
Tobacco Pipe, New South Wales

E. S. Curling, esq.

Mr. J. Pout.

Miscellaneous.

Specimens of Angur Worm perforating
Wood (Margate Jetty)

Dr. Jarvis.

1 Antique Key—3 Teeth of Cachelot

Mr. J. Crippen, sen.

Antique Key

Mr. J. Crippen, jun.

Pair of Old English Ladies' Shoes

Mrs. Gibbs,

3 Teeth of Sperm Whale

General Miller.

2 Tortoise Eggs—5 Birds Eggs—and 2 spe-
cimens of Gums—Demerara

W. D. Couchman, esq.

2 Dissected Leaves of *Ficus religiosa*

Rev. G. Smith.

4 Guillemot's and Puffin's Eggs

Mr. G. Austin

5 Impressions of Antique Seals

Mr. Simpson.

Preserved Head of a New Zealand Chief

Captain George Deedes.

WILLIAM MASTERS, Curator.

JOHN FRIEND, Secretary.

A
CATALOGUE
OF THE
LIBRARY
OF THE
Canterbury Philosophical
AND
LITERARY INSTITUTION.



PREFACE.

The formation of a PUBLIC LIBRARY in the City of Canterbury on a large scale is of the highest importance, both as regards the general interests of Science, and the improvement and gratification of the inhabitants. This object, therefore, demands the constant and unremitting exertion of the Committee and Members of the Institution, and claims the cordial co-operation of all who feel interested in the advancement of knowledge and the well being of Society. Such PUBLIC LIBRARY it is presumed, would not only confer especial honour on our ancient city, but its utility would be felt and acknowledged throughout the eastern part of the County generally.

The library until lately, was greatly deficient in Standard Works, and innumerable sets of books were incomplete; it will now be found to contain many of the best publications, and the imperfections alluded to have been remedied. The great increase of the library has rendered it necessary to publish a new catalogue, in the arrangement of which, facility of reference has been the object sought. An addition of nearly one thousand volumes has been made since the last catalogue was published, and the Book Society connected with the Institution, has already contributed nearly one hundred volumes, and a like number may be expected annually.

The augmentation and improvement of the library has long occupied attention, and with a view to the furtherance of these objects, the late Earl of Darnley presented a valuable selection of books, as did also the present Earl. Sir J. M. Tylden, Sir. E. Brydges, Alderman Frend, William Frend, Esq. W. H. Baldock, Esq. Col. Barrett, the Rev. A. Brydges, Capt. Harvey, R. N. Dr. Carter, Gideon Mantel, Esq. and numerous other gentlemen have rendered similar assistance and it is anticipated that many noblemen and gentlemen may be induced to present their duplicate copies.

JOHN POUT, LIBRARIAN.

Canterbury, Nov. 1832.

A Catalogue, &c.



Arts and Sciences.

			Edition.	Date
1015	Adams' Lectures on Natural and Experimental Philosophy	Vol. 1	Lon 8vo	1794
1016	ditto	2		
1017	ditto	3		
1018	ditto	4		
1019	ditto (Plates)	5		
870	Barreffe's Young Artilleryman		Lon 4to	1817
94	Blackburn, on Ship-building		Lon 4to	
367	British Encyclopædia Vol. 1	A B U B	Lon 8vo	
398	ditto	2 B U B—E L L		
269	ditto	3 E L L—I R R		
370	ditto	4 I R R—N I C		
371	ditto	5 N I C—R Y N		
372	ditto	6 R Y N—Z		
830	Cox's Gentleman's Recreation, viz. Hunting, Hawk- ing, Fowling, and Fishing		Lon 8vo	1697
22	Croker, Williams, and Clark's Complete Dictionary of Arts and Sciences,	Vol 1 A—D Y Y	Lon folio	1766
23	ditto	2 E—P Y T		
24	ditto	3 Q—Z		
791	Derham's Miscellanea Curiosa	Vol. 1	Lon 8vo	1726
792	ditto	2		1723
793	ditto	3		1727
1422	Egyptian Antiquities	Vol. 1	Lon 12mo	1832
1423	ditto	2		
122	Encyclopædia Britannica Vol. 1	A —A N G	Edin 4to	1797
123	ditto	2 A N G—B A R		
124	ditto	3 B A R—B Z O		
125	ditto	4 C A A—C I C		
126	ditto	5 C I C—D I A		
127	ditto	6 D I A—E T N		
128	ditto	7 E T H—G O A		
129	ditto	8 G O A—H Y D		
130	ditto	9 H Y D—L E S		
131	ditto	10 L E S—M E C		
132	ditto	11 M E C—M I D		
133	ditto	12 M I D—N E G		
134	ditto	13 N E G—P A S		
135	ditto	14 P A S—P L A		
136	ditto	15 P L A—R A N		
137	ditto	16 R A N—S C O		
138	ditto	17 S C O—S T R		
139	ditto	18 S T R—Z Y M		
140	ditto Supplement	A—J M P		
141	ditto ditto	J M P—Z E M		

			Edition.	Date
825	Ferguson's Lectures		Lon 8vo	1770
826	(Plates)			
252	Gregory's Economy of Nature	Vol 1	Lon 8vo	1796
253	ditto	2		
254	ditto	3		
1230	Hamilton's Philosophical Essays		Lon 8vo	1767
1515	Herschel's Discourse on Natural Philosophy		Lon 12mo	1830
100	Memoirs on Science and Art	Vol 1	Dept 4to	1793
101	ditto	2	Lon 4to	1794
112	Nicholson's Journal of Natural Philosophy and the Arts	Vol 1	Lon 4to	1797
113	ditto	2		1799
114	ditto	3		1800
115	ditto	4		1801
116	ditto	5		1802
198	Pinkerton's Essay on Medals	Vol 1	Lon 8vo	1808
199	ditto	2		
1577	Phillidor l' analyse des Echecs (par)		Lon 8vo	1749
170	Philosophical Transactions		Lon 4to	1671
76	Philosophical Transactions of the Royal Society of London for 1820		Lon 4to	1820
77	ditto			1821
78	ditto			1822
79	ditto			1823
80	ditto			1824
81	ditto			4 & 5
82	ditto			5 & 6
83	ditto			1826
84	ditto			6 & 7
85	ditto			7 & 8
86	ditto			8 & 9
87	ditto			1829
88	ditto			1830
89	ditto			1831
90	ditto			1832
1372	Playford's Introduction to the Skill of Musick		Lon 12mo	1697
45	Rawley's Sylva Sylvarvm, Bacon's History of Life and Death		Lon 4to	1805
1362	Simpson's Compendium of Practical Musick		Lon folio	1669
146	Stephenson's System of Land Surveying		Lon 12mo	1667
1212	Vintner's, Brewer and Spirit Merchant's Guide		Lon 4to	1805
1157	Vince's Heads of a Course of Lectures on Experimental Philosophy		Lon 8vo	1826
776	Young Gentleman's and Lady's Philosophy	Vol 1	Cam. 8vo	1809
777	ditto	2	Lon 8vo	1763
Mathematics, Algebra, and Geometry.				
324	Arnott's Phisics	Vol 1		
325	ditto	2		
1154	Bevan's Practical Treatise on the Sliding Rule		Lon 8vo	1822
152	Blassiere's Elemens de Geometrie (par)		Hag. 4to	1762
284	Cambridge Problems		Cam 8vo	1810
70	Cowley's Appendix to the Elements of Euclid		Lon 4to	
251	Cresswell's Maxima and Minima		Cam 8vo	1812
438	Cunn's Euclid's Elements of Geometry		Lon 8vo	1767
192	Dealtry's Principles of Fluxions		Cam 8vo	1810
999	Frend's principles of Algebra	part 1	Lon 8vo	1796
300	ditto	2		1799

		Edition.	Date
1155	Freud's Principles of Algebra	Lon 8vo	1796
301	Francœur's Lineal Drawing and Introduction to Geometry, as taught at the Lancastrian Schools of France	Lon 8vo	1824
355	Howard's Treatise on Spherical Geometry	Newc 8vo	1798
117	Hutton's Mathematical Dictionary	Vol 1 Lon 4to	1795
118	ditto	2	
451	Hutton's Recreations in Mathematics	Vol 1 Lon 8vo	1803
452	ditto	2	
453	ditto	3	
454	ditto	4	
455	ditto (Plates)	5	
49	Kepleri Harmonices Mundi	Aust folio	1619
44	Kersey's Algebra, and Halley's Lectures	Lon folio	1733
38	Leybourn's Cursus Mathematicus	Lon folio	1690
277	Ludlam's Rudiments of Mathematics	Lon 8vo	1794
416	Maseres' Appendix	Lon 8vo	1794
460	Mole's Elements of Algebra	Lon 8vo	1738
350	Newton's Mathematical Principles	Vol 1 Lon 8vo	1803
351	ditto	2	
252	ditto	3	
808	Newton's Mathematical Elements	Lon 8vo	1726
415	Robertson's Geometrical Treatise of Conic Sections	Oxf 8vo	1802
374	Stewart's Geometrical Propositions translated	Lon 8vo	1801
1196	Stone's Mathematical Dictionary	Lon 8vo	1726
1210	Stone's Elements of Mathematics	Lon 8vo	1724
279	Vince's Treatise on Plane and Spherical Trigonometry	Cam. 8vo	1800
315	Vince's Principles of Fluxions	Cam 8vo	1800
319	Vince's Elements of Conic Sections	Cam 8vo	1800
1197	Witty's Treatise of the Sphere	Lon 8vo	1714
276	Wood's Elements of Algebra	Cam 8vo	1801

Astronomy.

1267	Dell's Evenings Amusements for 1830	Lon 8vo	1829
1153	Ferguson's System of Astronomy	Lon 8vo	1770
1248	Freud's Evenings Amusements for	1804 Lon 8vo	1805
1249	ditto	1805	
1250	ditto	1806	
1251	ditto	1807	
1252	ditto	1808	
1253	ditto	1809	
1254	ditto	1810	
1255	ditto	1811	
1256	ditto	1812	
1257	ditto	1813	
1258	ditto	1814	
1259	ditto	1815	
1260	ditto	1816	
1261	ditto	1817	
1262	ditto	1818	
1263	ditto	1819	
1264	ditto	1820	
1265	ditto	1821	
1266	ditto	1822	
1270	Gassendi Institutio Astronomica	Lon 12mo	1653
328	Gregory's Treatise on Astronomy	Lon 8vo	1802

		Edition.	Date
436	La Place, Exposition du système du Monde (par) Tome 1	Paris 8vo	1796
437	ditto 2		
776	Martin's Philosophy Vol 1	Lon 8vo	1763
777	ditto 2	Lon 8vo	1763
859	Moxon's Tutor to Astronomy and Geography	Lon 8vo	1699
73	Vince's Treatise on Practical Astronomy	Cam 4to	1790
278	Vince's Elements of Astronomy	Cam 8vo	1799
788	Uranoscopia, or Contemplations of the Heavens	Lon 8vo	1735
1213	Wells' Young Gentleman's Astronomy, &c.	Lon 8vo	1736

Geography.

246	Brooks' General Gazetteer	Lon 8vo	1818
1523	Cities and Principal Towns in the World Vol 1	Lon 12mo	1830
1524	ditto 2		
991	Colombia Vol 1	Lon 8vo	1822
992	ditto 2		1822
1342	Eachard's Gazetteer's, or Newsman's Interpreter	Lon 12mo	1732
1501	Eachard's Exact description of Ireland	Lon 12mo	1691
1189	Garnier's Geography, French and English	Lon 8vo	1798
812	Gordon's Geography Anatomized	Lon 8vo	1749
110	Guthrie's System of Geography	Lon 4to	1795
1512	Maritime and Inland Discovery (History of) Vol 1	Lon 12mo	1831
1513	ditto 2		
1514	ditto 3		
773	Martin's Philology	Lon 8vo	1764
75	Martyn's Geographical Magazine, Asia and Africa	Lon 4to	1793
7	Ogilby's Africa	Lon folio	1670
6	Ogilby's America	Lon folio	1670
1442	Present State of the Universe	Lon 12mo	1704

Navigation.

799	Atkinson's Navigation	Lon 8vo	1744
99	Grant's Longitude	Lon 4to	1808
296	Mackay's Treatise on Longitude at Sea and Land	Lon 8vo	1793

Mechanics.

206	Gregory's Treatise on Mechanics Vol 1	Lon 8vo	1826
207	ditto 2		
208	ditto (Plates) 3		
346	Phillips' Four Dialogues on Natural Phenomena	Lon 8vo	1824
314	Wood's Principles of Mechanics	Cam 8vo	1799

Hydraulics and Hydrostatics.

311	Coates' Hydrostatical and Pneumatical Lectures	Lon 8vo	1765
420	Six on the Construction and rise of a Thermometer	Maids 8vo	1794
316	Vince's Principles of Hydrostatics	Cam 8vo	1796

Optics.

373	Observations concerning the Inflections of Light	Lon 8vo	1799
111	Smith's complete System of Optics	Cam 4to	1778
318	Wood's Elements of Optics	Cam 8vo	1779

Agriculture.

		Edition.	Date
1190	Bland's Principles of Agriculture	Lon 8vo	1827
1087	Rural Economy	Lon 8vo	1770

Commerce and Political Economy.

104	Booth's System of Book-keeping	Lon 4to	1789
293	Brydges' Population and Riches of Nations	Gen 8vo	1819
298	Brydges' What are Riches ?	Kent 8vo	1822
255	Coxe's View of America in 1787-1794	Lon 8vo	1795
72	Cronhelm's new method of Book-keeping	Lon 4to	1818
435	Dilworth's Book-keeper's Assistant	Lon 8vo	1768
1592	Jacobs on the Precious Metals	Vol 1	Lon 8vo 1831
1593	ditto	2	
1568	Jones' English System of Book-keeping	Bris 4to	1796
1177	Jones' Defence of Book-keeping	8vo	1797
445	Kelly's Elements of Book-keeping	Lon 8vo	1805
1185	Playfair's Statistical Breviary	Lon	1801
464	Postlethwayt's Britain's Commercial Interests explained and improved	Vol 1	Lon 8vo 1757
465	ditto	2	
845	Preston's Commercial Arithmetic	Lon 8vo	1817
1175	Price on Reversionary Payments, &c.	Vol 1	Lon 8vo 1792
1176	ditto	2	
1458	Quæstio quodlibetica—or whether it may be lawful to take use for Money ?	Lon 12mo	1653
1432	Results of Machinery	Lon 12mo	1831
1433	Rights of Industry	Lon 12mo	1831
96	Shires' improved method of Book-keeping	Lon. 4to	1799
219	Smith's Elements of the Science of Money	Lon 8vo	1813
457	Smith's Wealth of Nations	Vol 1	Lon 8vo 1799
453	ditto	2	
459	ditto	3	
235	Wine and Spirit Adulterators Unmasked	Lon 8vo	1827

Medicine, Surgery, and Anatomy.

1179	Aiton's Dissertations on Malaria, Contagion, and Cholera	Lon 8vo	1832
1378	Bayle's Medical Experiments	Lon 12mo	1731
1367	Boyle's Natural History of Humaine Blood	Lon 12mo	1684
385	Carter on Foreign Hospitals	Lon 8vo	1819
223	Cooke on Nervous Disorders—Apoplexy	Vol 1	Lon 8vo 1820
224	ditto Palsy	2	1821
225	ditto Epilepsy	8	1823
1	Cowper's Anatomy of the Human Bodies	Oxf folio	1698
1399	Johnstoni Medicinæ Practicæ	Am 12mo	1648
243	Maclean on the Evils of the Quarantine Laws, and Non-existence of Pestilential Contagion	Lon 8vo	1824
323	Newton's Return to Nature	Lon 8vo	1811
1370	Paracelsus' Mysteries of the Creation, &c.	Lon 12mo	1657
1689	Physician (The)	Lon 12mo	1832
827	Quincy's English Dispensatory	Lon 8vo	1761
1216	Solomon's Guide to Health	Der 8vo	
1183	Trotter's Medical and Chemical Essays	Lon 8vo	1795

Physiognomy and Phrenology.				Edition.	Date
1400	De Ville's Outline of Phrenology			Lon 12mo	1824
272	Lavater on Physiognomy, by Granville	Vol 1		Lon 8vo	
273	ditto	2			
274	ditto	3			
275	ditto	4			
Chemistry, Electricity, and Galvanism.					
419	Carpue's Introduction to Electricity and Galvanism			Lon 8vo	1803
1120	Cavallo's Treatise on Electricity	Vol 1		Lon 8vo	1786
1121	ditto	2			
247	Chaptal's Chemistry of the Arts	Vol 1		Lon 8vo	1807
248	ditto	2			
249	ditto	3			
250	ditto	4			
417	Davy's Elements of Agricultural Chemistry			Lon 8vo	1814
201	Davy's Elements of Chemical Philosophy			Lon 8vo	1812
54	Distiller of London			Lon folio	1725
322	Elliot's Elements of the Branches of Natural Philosophy			Lon 8vo	1782
393	Fourcroy's general System of Chemical Knowledge	Vol 1		Lon 8vo	1804
394	ditto	2			
395	ditto	3			
396	ditto	4			
397	ditto	5			
398	ditto	6			
399	ditto	7			
400	ditto	8			
401	ditto	9			
402	ditto	10			
403	ditto	11			
320	Garnett's Outlines of Lectures on Chemistry			Lon 8vo	1801
202	Henry's Elements of Chemistry	Vol 1		Lon 8vo	1826
203	ditto	2			
377	Lagrange's Manual of Chemistry	Vol 1		Lon 8vo	1800
378	ditto	2			
379	Lavoisier's Elements of Chemistry			Edin 8vo	1799
1283	Lemery's Course of Chemistry (by Harris)			Lon 12mo	1677
313	Nicholson's Dictionary of Chemistry			Lon 8vo	1808
421	Nicholson's Introduction to Natural Philosophy	Vol 1		Lon 8vo	1790
422	ditto	2			1790
446	Parkes' Chemical Catechism			Lon 8vo	1810
404	Priestley's Experiments and Observations on the Air	Vol 1		Lon 8vo	1781
405	ditto	2			1784
406	ditto	3			1787
407	Priestley's Experiments and Observations relating to various branches of Natural Philosophy	Vol 1		Lon 8vo	1779
408	ditto	2		Birm 8vo	1781
409	ditto	3			1786
147	Shaw's Boerhaave's Chemistry	Vol 1		Lon 4to	1741
148	ditto	2			1741
829	Shaw's Chemical Lectures			Lon 8vo	1734

		Edition.	Date
1011	Thompson's Chemistry	Vol 1	Lon 8vo 1820
1012	ditto	2	
1013	ditto	3	
1014	ditto	4	
1636	Thompson's History of Chemistry	Vol 1	Lon12mo 1830
1637	ditto	2	1830
168	Weekes' Memoir on the portable Eudiometer	3and 4to	1828

Natural History.

1554	Bell's Phenomena of Nature		Ed 12mo	1827
1591	Blumenback's Elements of Natural History		Lon 8vo	1825
1170	Cuvier's Animal Kingdom	Vol 1	Lon 8vo	1827
1171	ditto	2		
1172	ditto	3		
1173	ditto	4		
1174	ditto Synopsis of Species	5		
1494	Derham's Physico-Theology	Vol 1	Lon12mo	1749
1495	ditto	2		
817	Goldsmith's History of the Earth and Animated Nature	Vol 1	Lon 8vo	1774
818	ditto Animals	2		
819	ditto ditto	3		
820	ditto ditto	4		
821	ditto Birds	5		
822	ditto Birds and Fish	6		
823	ditto Fish and Insects	7		
824	ditto Insects	8		
1626	Journal of a Naturalist		Lon 8vo	1830
1408	Menageries	Vol 1	Lon 8vo	1829
1409	ditto	2		1830
1410	ditto	3		1831
1411	ditto	4		
1503	Plinii Secundi Historiæ Naturalis	Tom 1	Lug Bat	1635
1504	ditto	2		
1505	ditto	3		
855	Ray's Wisdom of God manifested in the Works of the Creation		Lon 8vo	1709
1570	Spallanzani's Tracts translated by Dalyell	Vol 1	Edin 8vo	1803
1571	ditto	2		
1572	Townson's Tracts on Natural History and Physiology		Lon 8vo	1799
1163	Turton's General System of Nature, containing Mammalia, Birds, Fish, Amphibia	Vol 1	Lon 8vo	1806
1164	ditto Insects	2		
1165	ditto ditto	3		
1166	ditto Worms	4		
1167	ditto Vegetables	5		
1168	ditto ditto	6		
1169	ditto Mineral Kingdom	7		
1559	White's Natural History of Selbourne		Ed 12mo	1827
1297	Wonders of Nature and Art	Vol 1	Lon12mo	1750
1298	ditto	2		
1299	ditto			
1300	ditto			

Ornithology.

		Edition.	Date
1413	Architecture of Birds	Lon 12mo	1831
154	Latham's Synopsis of Birds	Vol 1 Lon 4to	1782
155	ditto	Vol 1 Part 2	1782
156	ditto	Vol 2 Part 1	1783
157	ditto	Vol 2 Part 2	1783
158	ditto	Vol 3 Part 1	1785
159	ditto	Vol 3 Part 2	1785
160	Latham's Index Ornithologicus	Vol 1 Lon 4to	1790
161	ditto	2	1790
162	Latham's Supplement to Synopsis	Vol 1 Lon. 4to	1787
163	ditto	2	1787
165	Pennant's Genera of Birds	Lon 4to	1781

Entomology.

221	Huish's treatise on Bees	Lon 8vo	1815
1401	Insect Architecture	Lon 12mo	1831
1405	Insect Transformations	Lon 12mo	1831
1406	Insect Miscellanies	Lon 12mo	1831
1573	Kirby and Spence's Introduction to Entomology	Vol 1 Lon 8vo	1815
1574	ditto	2	1817
1575	ditto	3	
1576	ditto	4	
2	Swammerdam's Book of Nature, or History of Insects	Lon folio	1758

Conchology.

57	Crouch's Illustration of Lamarek's Conchology	Lon 4to	1826
56	La Mark, Coquilles Fossiles des Environs de Paris (par)	Paris 4to	1823

Botany.

1280	Castle's Introduction to Botany	Lon 12mo	1829
119	Curtis' Linnæan Classes and Orders of Plants	Lon 4to	1777
1178	De Candolle, theorie elementaire de la Botanique (par)	Paris 4to	1810
1569	De Candolle, Memoires sur la Famelle des Melastomacées et des Crassulacées	Paris 4to	1828
305	Lee's Introduction to Botany	Lon 8vo	1776
1348	Masters' Hortus Duroverni	Lon 12mo	1831
304	Rose's Elements of Botany	Lon 8vo	1775
1157	Smith's Flora Britannica	Vol 1 Lon 8vo	1800
1158	ditto	2	
1159	ditto	3	Lon. 1804
1160	ditto	4	
1161	ditto	5	
1401	Vegetable Substances—Timber Trees, Fruits, &c.	Lon 12mo	1829
1412	Vegetable Substances used for the food of Man	Lon 12mo	1832

Mineralogy.

1627	Aikin's Manual of Mineralogy	Lon 8vo	1814
5	Clarke's distribution of the Mineral Kingdom	Lew folio	1806

	Edition.	Date
1136 Lucas, Tableau Méthodique des Espèces Minérales (par)	Paris 8vo	1813

Geology.

59 Mantell's Geology of Sussex.	Lon	4to	1822
60 Mantell's Illustrations of the Fossils of Tilgate Forest	Lon	4to	1827
164 Packe's Anko graphia sive Convallium descriptio	Can	4to	1743

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953	ditto 15		972 ditto	34	
954	ditto 16	1803	973 ditto	35	1810
955	ditto 17	1804	974 ditto	36	
956	ditto 18		975 ditto	37	1811
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958	ditto 20	1805	977 ditto	39	1812
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1594	Report of Proceedings of the British Association for the Advancement of Science			York 8vo	1832

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1520	ditto			2	
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121	ditto 2		
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31	British Apollo Vol 1	Lon folio	1708
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15	Burton's Genuineness of Clarendon's History vindicated	Lon folio	1744
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1215	Gibbons' Decline and Fall of the Roman Empire	Vol 4	
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364	ditto	2	
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448	Goldsmith's Crimes of Cabinets		Lon 8vo 1801
262	Gordon's History of the American War	Vol. 1	Lon 8vo 1788
263	ditto	2	
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1517	ditto	2	
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43	Hooper's History of the Rebellion and Civil Wars during the reign of Charles 1st		Lon folio 1738
1275	Impartial Enquiry into the Management of the War in Spain, by the Ministry at home		Lon 12mo 1712
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1301	Manguall's Historical & Miscellaneous Questions		Lon 8vo 1813
1686	Marmontel, Les Incas (par)	Tome 1	Par 12mo 1822
1687	ditto ditto	2	
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915	Spain, Arragon, Valencia	21	
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917	France from Clovis to Charles 6th	23	
918	France, Charles 7th to Louis 13th	24	
919	France, Louis 14th to Louis 15th and Italy to Benedict 9th	25	
920	Italy Clement 5th to Clement 11th	26	
921	Venice	27	
922	Naples, Genoa	28	
923	Germany, Conrad to Maximilian	29	
924	Germany, Charles 5th and 6th	30	
925	Holland to 1697	31	
926	Denmark to Frederick 5th	32	
927	Sweden	33	
928	Poland, Russia	34	
929	Russia to Elizabeth, 1744	35	
930	Florence	36	
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935	North America to 1753	41	
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937	Conclusion of Modern History	43	
938	Index to 43 vols. of Modern History	44	
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1292	New History of England, by Question and Answer	Lon 12mo	1761
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			Edition.	Date
1616	Notions of the Americans	Vol. 1	Lon 8vo	1828
1617	ditto	2		
1550	Palgrave's History of England		Lon 12mo	1831
1414	Paris (Historical Scenes)		Lon 12mo	1831
1415	Paris, Revolution of July, 1830			
1445	Plain Englishman's Historian		Lon 12mo	1879
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1081	Poll for Knights of the Shire to represent the County of Kent in 1802		Can 8vo	1803
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794	Present State of Europe		Lon 8vo	1750
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8	Rapin's History of England	Vol. 1	Lon folio	1733
9	ditto to James 2nd	2		
1339	Ray's complete History of the Rebellion		Lon 12mo	1758
807	Reform Festival, Canterbury		Can 8vo	1832
210	Robertson's History of America & Scotland, Vol. 1		Lon 8vo	1828
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11	ditto Geo. I. to Geo. III.	2		
177	Tracts, &c. relating to the Commonwealth from 1606 to	Vol 1	4to	1640
178	ditto	2	4to	1641
179	ditto	3		1642
180	ditto	4		1643
181	ditto	1644 to 5		1646
182	ditto	6		1646
183	ditto	1647 to 7		1648
184	ditto	1649 to 8		1650
185	ditto	1651 to 9		1679
186	ditto	1683 to 10		1703
187	ditto	1643 to 11		1651
1496	Wolley's Loyalty amongst Rebels		Lon 12mo	1662
343	Wyvell's Political Papers	Vol 1	York 8vo	
344	ditto	2		
345	ditto	3		

Biography.

			Edition.	Date
1061	Biographical Dictionary	Vol 1	A—A. Y. L.	Lon 8vo 1798
1062	ditto	2	A. Y. L.—B. O. Y.	
1063	ditto	3	B. O. Y.—C. J. B.	
1064	ditto	4	C. J. B.—D. E. N.	
1065	ditto	5	D. E. N.—E. U. G.	
1066	ditto	6	E. U. G.—G. E. R.	
1067	ditto	7	G. E. R.—H. F. A.	
1068	ditto	8	H. F. A.—J. O. L.	
1069	ditto	9	J. O. L.—L. O. W.	
1070	ditto	10	L. O. W.—M. O. L.	
1071	ditto	11	M. O. L.—P. A. P.	
1072	ditto	12	P. A. P.—R. A. M.	
1073	ditto	13	R. A. M.—S. I. M.	
1074	ditto	14	S. I. M.—T. O. L.	
1075	ditto	15	T. O. L.—Z.	
1557	Bourrienne's Memoirs of Napoleon	Vol 1	Ed 12mo	1850
1558	ditto	2		
1559	ditto	3		
1533	Bousset, Oraisons funebres (par)		Par 12mo	1762
48	Camden's History of Elizabeth, Queen of England		Lon folio	1675
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1543	Court and Camp of Bonaparte		Lon 12mo	1831
1284	Dodderidge's Life of Col. Gardener		Lon 12mo	1803
1526	Galt's Life of Byron		Lon 12mo	1830
1679	Head's Life of Bruce		Lon 12mo	1830
1418	Historical parallels	Vol 1	Lon 12mo	1831
1419	ditto	2		
1680	History of Napoleon Bonaparte	Vol 1	Lon 12mo	1829
1681	ditto	2		
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1218	ditto	2		
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1582	ditto	2		
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865	Life of Franklin, by himself		Lon 8vo	1793
46	Lloyd's Memoires of the Lives and Sufferings of Persons for their Allegiance to Charles 1st with his Life and Martyrdom		Lon folio	1668

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271	Martin's <i>Biographia Philosophica</i>	Lon 8vo	1764
1529	Mavor's <i>British Nepos</i>	Lon 8vo	1800
1578	Memoirs of Lady Fanshawe	Lon 8vo	1829
1505	Memoirs of Sarah Duchess of Marlboro'	Lon 12mo	1744
149	Memoires pour la vie de F. Pètrarque	Ams 4to	1764
150	ditto	Tom 1	
151	ditto	2	1767
217	Milizia's <i>Lives of Celebrated Architects, Ancient and Modern</i> , translated by Cresy	Vol 1	Lon 8vo 1826
218	ditto	2	
1584	Miller's <i>Memoirs of General Miller</i>	Vol 1	Lon 8vo 1829
1585	ditto	2	
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849	ditto	2	
850	ditto	3	
851	ditto	4	
852	ditto	5	
1088	Plutarch's <i>lives of the illustrious Greeks and Romans with their comparisons, abridged</i>	Lon 8vo	1713
1683	Sherer's <i>Military Memoirs of Wellington</i>	Vol 1	Lon 12mo 1830
1684	ditto	2	
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1455	The most Christian Turk, or a view of the Life and bloody reign of Lewis XIV.	2	
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894	Chronological Table, to 20 vols of Universal History	Lon 8vo	1754
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1287	Mortimer's <i>Compendium</i>	Lon 12mo	1777
868	Prideaux's <i>Easy and Compendious Introduction for reading all sorts of Histories</i>	Oxf 4to	1664
797	Salmon's <i>Chronological Historian</i>	Lon 8vo	1723
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291	Gostling's <i>Walk in and about Canterbury</i>	Can t vo	1777
1278	ditto	Can 12mo	1804
1124	Hasted's <i>History and Topographical Survey of the County of Kent</i>	Vol 1	Can 8vo 1797
1125	ditto	2	
1126	ditto	3	
1127	ditto	4	
1128	ditto	5	
1129	ditto	6	

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1131	ditto	8	
1132	ditto	9	
1133	ditto	10	
1134	ditto	11	
1135	ditto	12	
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433	Smeaton's Report on Ramsgate Harbour & Tracts	Lon 8vo	1791
172	Somner's Antiquities of Canterbury	Lon 4to	1640
97	Venuti Antichita de Roma parti prima	Roma 4to	1763
98	ditto parti seconda		
55	Woolnorth's Canterbury Cathedral	Lon folio	1816

Voyages and Travels.

1556	Adventures of British Seamen	Ed 12mo	1827
1430	Anson's Voyage Round the World Vol 1	Lon 12mo	1772
1431	ditto	2	
16	Barclay's Universal Traveller	Lon folio	1735
418	Burnaby's Travels in North America in 1759	8vo	1775
1438	Burnett's Letters from Switzerland, Italy, &c	12mo	1689
63	Burney's History of Discoveries in the South Seas Vol 1	Lon 4to	1803
64	ditto	2	1806
65	ditto	3	1813
66	ditto	4	1816
67	ditto	5	1817
353	Cogan's Journey from Utrecht to Frankfort Vol 1	Lon 4to	1794
354	ditto	2	
1145	Dampier's Voyage to New Holland in 1699, Vol. 1	Lon 8vo	1705
1146	ditto	2	
1147	ditto	2	
1598	Denham and Clapperton's Travels and Discoveries in Central Africa Vol. 1	Lon 8vo	1826
1599	ditto	2	
1527	Discovery and Adventures in Africa	Edin 8vo	1830
1528	ditto in the Polar Regions		
19	Drake's Collection of Voyages and Travels	Lon folio	1771
1588	Finlayson's Mission to Siam and Hué	Lon 8vo	1826
1201	Hall's Travels in North America, in 1827, Vol. 1	Edin 8vo	1829

		Edition.	Date
1202	Hall's Travels in North America, in 1827, Vol. 2	Edin 8vo	1829
1203	ditto 3		
1199	Head's Forest Scenes and Incidents	Lon 8vo	1829
1589	Hodgskin's Travels in the North of Germany Vol. 1	Edin 8vo	1820
1590	ditto 2		
1553	Irving's Life and Voyages of Christ. Columbus	Lon 12mo	1830
1545	Irving's Companions of Columbus	Lon 12mo	1831
143	Jeffery's Voyages from Asia to America	Lon 4to	1761
1608	Keppel's Journey across the Balcan Vol. 1	Lon 8vo	1831
1609	ditto 2		
449	Lantier, Voyage en Espagne (par) Tome 1	Par 8vo	1809
450	ditto 2		
1381	Morgan's Italy Vol. 1	Par 12mo	1821
1382	ditto 2		
1383	ditto 3		
1180	Murray's Companion and Guide to the beauties of Scotland and the Lakes	Lon 8vo	1799
1407	New Zealanders	Lon 12mo	1830
91	O'Reilly's Voyage to Greenland	Lon. 4to	1818
92	Parry's first Voyage to the Artic Regions	Lon 4to	1821
93	Parry's second ditto	Lon 4to	1821
1204	Picture of Australia	Lon 8vo	1829
1346	Relation de L'Ambassade a la Cour du Roi de Siam	Par 12mo	1687
376	Rochon's Voyage to Madagascar	Lon 8vo	1821
1150	Thompson's Travels, France, Italy, & Turkey, Vol. 1	Lon 8vo	1744
1151	ditto Turkey 2		
1152	ditto Holy Land, Egypt 3		
466	Tournefort's Voyage into the Levant Vol. 1	Lon 8vo	1741
467	ditto 2		
468	ditto 3		

Philology.

1531	Antenini's Grammaire Italienne	Par 12mo	1728
1273	Buxtorf's Lexicon Hebraicum et Chaldaicum	Bas 12mo	1655
1227	Cham baud's Grammar of the French Tongue	Lon 8vo	1790
349	Crombie's Etymology and Syntax of the English Language	Lon 8vo	1802
443	Deletanville's French Dictionary	Lon 8vo	1814
142	Dictionnaire royal François Anglois et Anglois François par Boyer	Lon 4to	1727
1228	Difference between Words deemed Synonymous in the English Language Vol. 1.	Lon 8vo	1766
1229	Ditto 2		
233	Douville's French Grammar for the use of the English Students Vol. 1	Lon 8vo	1824
234	ditto 2		
456	Dyche's English Dictionary	Lon 8vo	1768
828	English and Latin Dictionary	8vo	
1289	Gerard, Synonymes Française (par)	Gen 12mo	1753
205	Gilchrist's Philosophic Etymology	Lon 8vo	1816
1191	Heinemann's Introduction to Hebrew	Lon 8vo	1823
244	Lyon's Theological Hebrew Grammar and Lexicon	Liver 8vo	1812
1290	Olivet, Traité de la Prosodie Française (par)	Gen 12mo	1755
1295	Pierce's new and easy Guide to the French Language	Lon 12mo	1751

		Edition.	Date
1532	Restaut, principes generaux et raisonne de la Grammaire François (par)	Par 12mo	1763
209	Salome's Grammar of the Hebrew Tongue	Lon 8vo	1825
836	Schrevelli Lexicon manuale Græco Latinum et Latino Græcum	Lon 8vo	1762
843	Salmonis Glassii Philogia Sacra Tom 1	Lep 8vo	1776
1595	Sarchi on Antient and Modern Hebrew Poetry	Lon 8vo	1824
1385	Short Introduction to the English Grammar	Lon 12mo	1783
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1238	Wendeborn's Introduction to German Grammar	Lon 8vo	1810

Divinity.

1371	Abbott's Christian Family builded by God	Lon 12mo	1653
1148	Alciphron, or the Minute Philosopher Vol 1	Lon 8vo	1732
1149	ditto 2		
348	Aspland's Plea for Unitarian Dissenters	Hack 8vo	1813
1566	Bawer's History of the Popes Vol 1	Lon 4to	1748
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330	ditto 2		1809
331	ditto 3		1810
332	ditto 4		1812
51	Bennett's Temple of Ezekiel	Lon 4to	1824
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1226	Edwards' Socinian Creed	Lon 8vo	1697
270	Falconer's Brampton Lecture Sermon	Oxf. 8vo	1811
1225	Farmer's Essay on the Demoniacs of the New Testament	Lon 8vo	1805
360	Fellowe's Guide to Immortality	Vol 1 Lon 8vo	1804
361	ditto	2	
362	ditto	3	
326	Hales on Faith in the Holy Trinity	Vol 1 Lon 8vo	1818
327	ditto	2	
220	Hales on the Origin and Purity of the Primitive Church of the British Isles	Liver 8vo	1819
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1293	Harvey's Meditations and Contemplations	Vol 1 Lon12mo	1769
1294	ditto	2	
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232	Higgins' Mahommed or the Illustrious	Lon 8vo	1829
171	Holy Bible (black letter)	Lon 4to	1608
1353	Ingenious Thoughts of the Fathers of the Church	Lon12mo	1727
1338	Jardin, Venin des Cipropositions de Quesnel exposé	Gan12mo	1730
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236	Jones on the Truth of the Christian Religion	Lon 8vo	1820
1085	Kennicott on the Tree of Life in Paradise, &c.	Oxf 8vo	1797
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1306	Klopstock's Messiah	Vol 1 Lon12mo	1769
1307	ditto	2	
359	Landaff's Sermons on public occasions	Wisb. 8vo	1806
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1436	Leslie on Deism	Can12mo	1786
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269	ditto	2	
786	Nelson's Companion for the Festivals and Fasts of the Church of England	Lon 8vo	1737
194	New Testament (improved version)	Lon 8vo	1808
335	Nisbett's original Evidences of Christianity	Lon 8vo	1807
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1084	Nisbett's Triumphs of Christianity over Infidelity	Deal 8vo	1802
1502	Nouvelles Etrennes spirituelles	Par12mo	1770
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175	Parker's Demonstration of the Law of Nature and of the Christian Religion	Lon 4to	1685
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414	Priestley's Discourses on various subjects	Bir. 8vo	1787
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869	Prideaux' Doctrine of the Sabbath, &c.	Lon 4to	1634

		Edition.	Date
809	Prideaux' Old and New Testament connected in the History of the Jews and neighbouring Nations	Vol 1	Lon 8vo 1716
810	ditto	2	1717
811	ditto	3	1718
1274	Ray's Miscellaneous Discourses		Lon 12mo 1692
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835	Stanhope's Parson's Christian Directory		Lon 8vo 1716
1376	Steel's Christian Hero		Lon 12mo 1701
1286	Taylor's Worthy Communicant		Lon 12mo 1678
61	Taylor's Translations of Proclus	Vol 1	Lon 4to 1816
62	ditto	2	
387	Theological Repository	Vol 1	Lon 8vo 1773
388	ditto	2	1770
389	ditto	3	1771
390	ditto	4	Birm 8vo 1784
391	ditto	5	1786
392	ditto	6	1788
1366	Thomas à Kempis' Christian Pattern		Lon 12mo 1727
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1079	Vindiciæ Priestleianæ, or Lindley's Address to the Students of Oxford and Cambridge	Vol 1	Lon 8vo 1788
1080	ditto	2	
1374	Wakes' Principles of the Christian Religion		Lon 12mo 1727
832	Wall's History of Infant Baptism		Lon 8vo 1705
256	Watson's Collection of Theological Tracts	Vol 1	Cam 8vo 1785
257	ditto	2	
258	ditto	3	
259	ditto	4	
260	ditto	5	
261	ditto	6	
1364	Watson's Mischief of Sinne		Lon 12mo 1671
174	Wilson's Christian's Dictionary		Lon 4to 1622
384	Witherby's attempt to remove prejudices concerning the Jewish Nation		Lon 8vo 1804
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375	Wright's Apology for Michael Servetus		Wis 8vo 1806
271	Yate's Vindication of Unitarianism		Glas 8vo 1815
380	Zollitrofre's Exercises of Piety		Lon 8vo 1796

Moral Philosophy.

1344	Abridgment of Mr. Locke's Essay concerning Human Understanding		Lon 12mo 1721
1441	Baldwin's Treatise of Morral Philosophie—(black letter		Lon 12mo

		Edition.	Date
50	Bentivolio and Urania	Lon foli	1660
1365	Brown's Christian Morals	Cam12mo	1716
846	Bruyere's Characters on Manners of the Age	Lon 8vo	1770
1538	Bruyere, caracteres de Theophraste (par) Tom 1	Am 12mo	1731
1539	ditto	2	
240	Buxton on Prison Discipline	Lon 8vo	1818
431	Calcott's Disquisitions on the principles and practices of Free and Accepted Masons	Lon 8vo	1769
1221	Chalmers' Plurality of Worlds	Lon 8vo	1817
1078	Clarkson's Essay on the slavery and commerce of the Human Species	Lon 8vo	1786
1239	Collard's Essentials of Hope	Lon 8vo	1796
439	Darjes, Via ad Veritatem	Jene 8vo	1764
1184	Dunbar's Essays on the History of Mankind	Lon 8vo	1781
1308	Dyer's Disquisitions on several subjects	Lon 12mo	1782
226	Edgeworth's Practical Education	Vol 1 Lon 8vo	1801
227	ditto	2	
228	ditto	3	
1351	Epictetus's Works, translated by Mrs. Carter	Vol 1 Lon12mo	1768
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785	Fable of the Bees	Lon 8vo	1725
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1383	Foster's Essay on the evils of Popular Ignorance	Lon 8vo	1821
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856	Seneca's Morals by L'Estrange	Lon 8vo	1699
804	Shaftsbury's Characteristicks of Men, Manners, Opinions, and Times	Vol 1. 2. 3. Lon 8vo	1711
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68	Taylor's Proclus on the Timeus of Plato	Vol 1 Lon 4to	1820
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872	Tully's Offices by L'Estrange	Lon 8vo	1681
1153	Watts' Improvement of the mind	Lon 8vo	1782
1380	Watts' Logic, or the right use of Reason	Lon 8vo	1725

Law.

			Edition.	Date
681	Blackstone's Commentaries of the Laws of England	Vol 1	Lon 8vo	1783
682	ditto	2		
683	ditto	3		
684	ditto	4		
26	Carkesses' Collection of Laws relating to the Customs. The Acts of Tonnage and Poundage, &c.		Lon folio	1726
1375	Clergyman's Vade mecum, or an account of the ancient and present Church of England		Lon 12m	1707
33	Collection of the most remarkable Trials of Persons for High Treason, &c.	Vol 1	Lon folio	1734
34	ditto	2		1735
35	ditto	3		1736
36	ditto	4		1736
37	ditto	5		1739
1420	Criminal Trials	Vol 1	Lon 12mo	1832
1421	ditto	2		
463	Cunningham's Law of Bills of Exchange, &c.		Lon 8vo	1766
1456	Doctrinale florum artis notarie (Black Letter)		Par 12mo	1503
190	Gurney's Report of the Trials brought by Messrs. Severn against the Imperial Insurance Company		Lon 8vo	1820
231	Gurney's Trial of Walker for High Treason		Man. 8vo	1794
1281	Help to a Historical Reformation		Lon 12mo	1720
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847	Statutes at large made for the preservation of Game (Black Letter)		Lon 8vo	1726
1296	Trial of the Seven Bishops, &c.		Lon 12mo	1688

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434	Reynolds' discourses delivered in the Royal Academy		Lon 8vo	1778



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3 Antiquities of Herculaneum, description—folio Vol 1		
4 ditto plates 2		
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7 Shepherdesses with Cattle	Ditto	Ditto
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10 Catherine D'Alexandrie	Ditto	Desnoyers
11 The Crucifix	Le Brun	Cooper
12 Lord Byron	Phillips	Lupton
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51 Virgin and Child	Ditto	Ditto

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