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PRESENTED

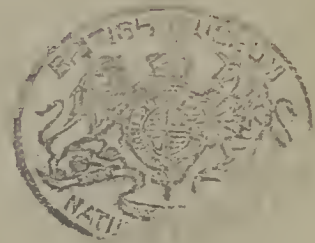
1 4 MAY 1934

# ANNUAL REPORT

OF THE COUNCIL

OF THE

YORKSHIRE



# PHILOSOPHICAL SOCIETY

FOR THE YEAR

**1933**

PRESENTED TO THE ANNUAL MEETING,<sup>\*</sup>

FEBRUARY 12th, 1934.

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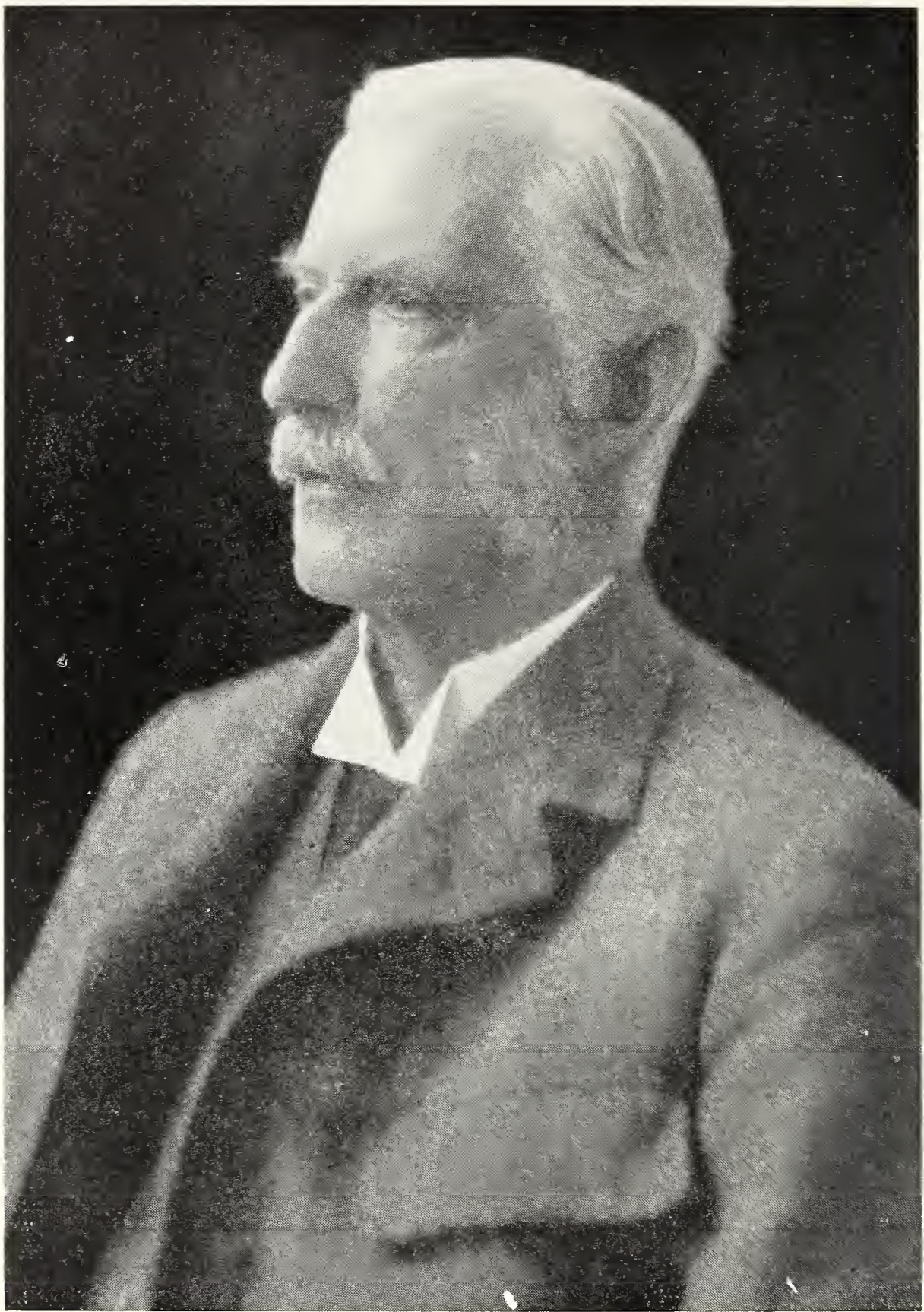
PRINTED BY ORDER OF THE COUNCIL.

1934.

Issued March 27th, 1934.







WILLIAM HERBERT ST. QUINTIN, D.L., J.P.,  
1851—1933.

*(By kind permission of the Editors of "The Naturalist.")*

# ANNUAL REPORT

OF THE COUNCIL

OF THE

YORKSHIRE

# PHILOSOPHICAL SOCIETY

FOR THE YEAR

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FORM  
OF A  
BEQUEST TO THE SOCIETY.

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Every person desirous of bequeathing to the Society any sum of Money, Specimens, Books, Instruments, or other Property, is requested to make use of the following form:—

*I give and bequeath to the Trustees, for the time being, of the Society established at York, called “**The Yorkshire Philosophical Society,**” for the use of the said Society, the sum of \_\_\_\_\_ to be paid out of such part of my personal estate as I may legally charge therewith. [Or here enumerate the effects or property intended to be bequeathed.] And I direct that the receipt of the Treasurer of the said Society, for the time being, shall be an effectual discharge to my Executors for the said legacy.*



# The Yorkshire Philosophical Society.

(Founded 1822.)

## Patrons :

HIS MAJESTY THE KING. HER MAJESTY THE QUEEN.

---

## Trustees :

GEORGE A. AUDEN, M.D. CHAS. E. ELMHIRST, J.P.  
RT. HON. LORD DERAMORE.

## President :

## Vice-Presidents :

COL. W. A. WHITE, J.P.	H. J. WILKINSON.
SYDNEY H. SMITH, J.P., F.Z.S.	ARTHUR HURST, A.K.C.
J. TRIFFITT.	W. A. EVELYN, M.A., M.D.
H. M. PLATNAUER, B.Sc.	CHAS. E. ELMHIRST, J.P.
ALD. W. H. BIRCH, J.P.	W. HARVEY BROOK.
S. WALKER, F.R.E.S.	REV. A. RAINE, M.A.

## Council :

*Elected 1932...*E. BAKER.

J. H. COLLINSON, M.A.

G. W. DANIEL.

CHARLES ALLEN.

*Elected 1933...*R. H. CHAPMAN.

M. DU BOIS FERGUSON, M.D., D.P.H.

ALD. FRANK W. TERRY.

GEOFFREY THOMPSON, M.A.

*Elected 1934...*J. L. BROCKBANK, M.A., H.M.I.

JOHN A. COOPER.

SIDNEY MELMORE, B.Sc., F.G.S.

A. W. PING, M.A.

## Hon. Treasurer :

S. WALKER, F.R.E.S.

## Hon. Secretary :

CHAS. E. ELMHIRST, J.P.

## Committees :

### General Purposes and Finance Committee :

J. L. BROCKBANK.  
W. HARVEY BROOK.  
JOHN A. COOPER.  
ARTHUR HURST.  
SIDNEY MELMORE.

REV. A. RAINE.  
ALD. FRANK W. TERRY.  
J. TRIFFITT.  
S. WALKER.  
CHAS. E. ELMHIRST,  
*Secretary.*

---

### Garden Committee :

E. BAKER.  
R. H. CHAPMAN.  
J. H. COLLINSON.  
G. W. DANIEL.

ARTHUR HURST.  
SIDNEY MELMORE.  
A. W. PING.  
COL. W. A. WHITE.  
S. WALKER, *Secretary.*

---

### Museum Committee :

W. HARVEY BROOK.  
DR. W. A. EVELYN.  
ARTHUR HURST.  
SIDNEY MELMORE.  
REV. A. RAINE.  
J. SCOTT.

SYDNEY H. SMITH.  
H. SOWDEN.  
GEOFFREY THOMPSON.  
S. WALKER.  
H. J. WILKINSON.  
DR. COLLINGE, *Secretary.*

---

### Abbey Restoration Committee :

ALD. W. H. BIRCH.  
W. HARVEY BROOK.  
JOHN A. COOPER.  
CHAS. E. ELMHIRST.  
REV. A. RAINE.

SYDNEY H. SMITH.  
ALD. FRANK W. TERRY.  
J. TRIFFITT.  
S. WALKER.  
H. J. WILKINSON.  
DR. COLLINGE, *Secretary.*

**Building Committee :**

ALD. W. H. BIRCH.

J. TRIFFITT.

CHAS. E. ELMHIRST.

S. WALKER.

DR. COLLINGE, *Secretary*.

---

The President, Hon. Secretary, Hon. Treasurer and Keeper  
are *ex-officio* members of all Committees.

---

**York and District Field Naturalists' Section.**

*President :*

A. W. PING, M.A., F.R.Met.S.

*Vice-Presidents :*

H. J. WILKINSON.

E. W. TAYLOR.

V. G. F. ZIMMERMANN.

F. VEAR.

*Hon. Treasurer :* G. MACHIN,  
42, Vyner Street, York.

*Hon. Secretaries :*

C. R. FEATHERSTONE, M.A.  
Clifton Rise, York.

K. G. CHILMAN.  
St. Olave's School,  
Clifton, York.



REPORT OF THE COUNCIL  
OF THE  
YORKSHIRE PHILOSOPHICAL SOCIETY.

12th FEBRUARY, 1934.

---

IT is your Council's painful duty to place on record the death of Mr. William Herbert St. Quintin, who had occupied the Presidential Chair since 1913. Mr. St. Quintin passed away on January 21st. For nineteen years he was an invaluable, devoted, and generous supporter of the Society; his donations to the Society's funds and Collections were numerous.

Mr. St. Quintin was an ardent and enthusiastic naturalist and his abilities as such were matched to an exceptional degree by his gentleness, kindness, and personal charm. His sound advice in all deliberations of the Council was always very highly valued.

Quickly following Mr. St. Quintin's decease, your Council were grieved to learn that Mr. Richard Thompson, the Society's senior Vice-President, had passed away on February 5th, at the age of 90.

Mr. Thompson had been a member of the Society since 1875, and was elected as a member of the Council in 1882 and Vice-President in 1898.

A further loss on February 11th was sustained by the death of Mr. Alfred Procter, the York & District City Coroner, who had been a member since 1884, and on December 27th, Alderman R. H. Vernon Wragge passed away in his eightieth year. Alderman Wragge had been a member of the Society since 1899.

Like most other learned societies this Society has felt the effect of the prevailing economic depression, which has affected its membership and the number of persons visiting the Museums and Gardens. There are, however, signs of an improvement, and your Council trust to the co-operation and assistance of all members to further these. There is need for a much larger membership.

FINANCE. The year commenced with a debit balance of £214 4s. 10d. A sub-committee dealt with the Society's financial position in April last and made various recommendations to the Council to take effect from May 8th, and although these have only been in operation for eight months the income has exceeded the expenses by £181 0s. 8d., thus reducing the deficit to £33 4s. 2d. The overdraft on the Abbey Restoration Fund has been reduced by £54 16s. 9d.; the Million Shilling Fund has increased by £3 13s. 3d., whilst the Reed Bequest shows a credit balance of £78 9s. 0d., and the Society's funds have been augmented by a legacy of £250 from the late Mr. W. H. St. Quintin.

The following is a full list of the Lectures delivered in the Tempest Anderson Hall during the past year :—

- Thursday, January 5th.—“Television Progress.” By J. J. Denton, A.M.I.E.E.
- Thursday, January 19th.—“A Voyage round Iceland.” By Robert H. Miller.
- Thursday, February 2nd.—“Yorkshire as a Novelist's County.” By Miss Phyllis Bentley, B.A.
- Thursday, February 16th.—“Through the French Revolution with an Eye Witness.” By E. Rosslyn Mitchell, M.A., LL.B.
- Thursday, October 12th.—“The Cities of Judah, Lost and Found.” By Captain R. St. Barbe Baker.
- Thursday, October 26th.—“Water Wonders of India.” By Lieut.-Col. C. H. Buck.
- Thursday, November 9th.—“From the Stone Age to the Flying Doctor in Australia.” By Miss Marjorie Ramsay, M.A.
- Thursday, November 23rd.—“In the Heart of Morocco.” By Captain H. G. Mansfield, M.C.
- Thursday, December 7th.—“Old Roads and Bridges.” By Edwin Jervoise.

FIELD NATURALISTS' SECTION. The past year has been most satisfactory; a full programme of lectures, exhibit nights and excursions has been carried out. Attendances at these meetings have shown that there is no lack of enthusiasm on the part of this Section, and that there is a steady progress in work done. The Summer Excursions were well attended and many valuable observations in the field were made.

At the Annual Meeting in April, three new Honorary Members were elected—Professor Gilligan, University of Leeds, Mr. C. F. Proctor, Hull, and Mr. A. Templeman, The Geological Museum, London.

At the end of the year Membership of this Section, including Honorary and Corresponding Members, stands at 129, an increase of 5 on last year.

The Lectures and Excursions during 1933 have been as follows :—

January 18th.—Presidential Address. "Notes on the Herbarium of the Y.P.S." H. J. Wilkinson.

January 25th.—Microscopical Evening.

February 8th.—Botanical Recorder's Report. Lecture and Exhibits. J. H. Evers.

February 22nd.—Lecture, with Exhibits: "A Talk on the Hydra." C. F. Sweetman.

March 8th.—Entomological Recorder's Report. Lecture and Exhibits. A. Smith.

March 22nd.—Recorders' Reports: Ornithology, V.G.F. Zimmermann. Vertebrate Zoology, S. H. Smith, F.Z.S.

April 5th.—Annual Meeting.

May 13th.—An Excursion to Skipwith Common. (Jointly with the Yorkshire Naturalists' Union.)

May 24th.—An Evening Visit to Sand Hutton Gravel Pits.

June 10th.—A Ramble beside the River Foss. (Jointly with the Yorkshire Conchological Society.)

June 20th.—A Visit to Nunthorpe Hall.

June 21st.—A Visit to East Moor, near Sutton-on-Forest.

June 28th.—A Visit to the Hermitage, Malton Road.

July 5th.—An Evening Visit to Acomb Brick Ponds.

July 15th.—A Visit to Allerthorpe Common.

August 26th.—A Geological Visit to the Museum.

September 30th.—An Excursion and Fungus Foray to Moreby Park; also an evening visit to inspect and discuss the specimens obtained.

October 4th.—Lantern Lecture: "Glimpses of Life in Birdland." F. Vear.

October 18th.—General Exhibit Night.

November 1st.—Geological Recorder's Report and Lecture: "The Most Recent Deposits of the Vale of York." J. A. Dell, M.Sc.

November 15th.—Lantern Lecture: "Partridge Disease and its Causes." Dr. W. E. Collinge, F.L.S.

November 29th.—Recorders' Reports: (a) Conchology, H. Sowden. (b) Fresh-water Biology, C. Allen.

December 13th.—Three Lecturettes.

## NEW MEMBERS, ELECTED IN 1933.

- Allen, Cyril, Princess Road, Strensall.  
 Batty, T. E., The Pharmacy, Tang Hall Lane.  
 Bond, Mrs. A., 30 Gillygate.  
 Britton, Miss A. E., 30 Micklegate.  
 Brown, Ald. H. Rhodes, J.P., Allerthorpe Hall.  
 Claire, Dalle, 44 Clifton.  
 Clark, G. T., 35 Parliament Street  
 Cook, Miss G. H., 6 Lindley Street, Acomb Road.  
 Davies, Mrs. S. H., 30 Clifton.  
 Daykin, A., 51 Wentworth Road.  
 Dudgeon, Mrs. B. M., 25 Bootham.  
 Green, Miss C. A., 18 Claremont Terrace.  
 Hope, A., 24 Stonegate.  
 Kidd, F. H., LL.B. (Lond.), 23 Clifton Dale.  
 Lumley, Roger, B.A., M.P., 39 Eaton Square, London, S.W.1.  
 Mackenzie, Mrs. E., 254 Bishopthorpe Road.  
 Needham, C. W. C., "Gatesgarth," Dringhouses.  
 Roberts, W. H., 1 Moorland Road, Fulford.  
 Rose, Miss Edith, 12 St. Mary's.  
 Spence, J. J., 1 Grosvenor Terrace.  
 Swale, Mrs., 12 Queen Anne's Road.  
 Thompson, Mrs. Richard, "Dringcote," The Mount.  
 Thompson, The Rev. Thomas, Clifton Field.  
 Webb, Mrs. I. M., 6 Clifton Dale.

## DEATHS.

## HONORARY MEMBER.

- Macnamara, W. H., Railway Commission, Courts of Justice, London.

## MEMBERS.

- Allen, E., Stonegate.  
 Appleton, T. H., Beverley House, Clifton.  
 Coverdale, G. H., 16 Queen Anne's Road.  
 Mackenzie, H. J., M.B., C.M., 254 Bishopthorpe Road.  
 McIntosh, Miss M. L., 1 Sycamore Terrace.  
 Perkins, R. H., 91 Lawrence Street.  
 Procter, A., 9 Clifton.  
 Richardson, Col. J. W., 1 St. James' Terrace.  
 St. Quintin, W. H., D.L., J.P., Scampston Hall, Malton.  
 Thompson, Richard, "Dringcote," The Mount.  
 Wilcox, Richard L., M.R.C.S., L.R.C.P., Junior Constitutional Club,  
 Piccadilly, London, W.1.  
 Wilson, Miss A., "Rockhurst," St. Peter's Grove.  
 Wragge, Ald. R. H. Vernon, "Horton Lodge," The Mount.



## RESIGNATIONS.

Members, 27.

## DEATH AND RESIGNATION.

Members	...	...	...	...	40
Lady Subscribers	...	...	...	...	
Associates	...	...	...	....	
					—
					40
					—

## NEW MEMBERS.

24

TOTAL MEMBERSHIP ON 31st DECEMBER,  
1933.

Honorary Members	...	...	....	29
Members	...	...	...	348
Lady Subscribers	...	...	...	42
Associates	...	...	...	9
				—
				428
				—

## LIST OF HONORARY MEMBERS.

1. 1927. Bather, F. A., M.A., D.Sc., F.R.S., F.G.S., 46 Marryat Road, London, S.W. 19.
2. 1926. Benson, George, A.R.I.B.A., Thirsk Road, Easingwold.
3. 1897. Berget, Baron A., Sorbonne, Paris.
4. 1888. Bobretzki, Dr., The University, Kiev.
5. 1906. Bower, F. O., M.A., Sc.D., LL.D., F.R.S., The Crescent, Ripon.
6. 1898. Clark, J. E., B.A., B.Sc., 41 Downscourt Road, Purley, Surrey.
7. 1923. Clarke, Wm. Eagle, I.S.O., LL.D., F.R.S.E., The Royal Scottish Museum, Edinburgh.
8. 1924. Collingwood, R. G., M.A., F.S.A., Haverfield Library, Ashmolean Museum, Oxford.
9. 1906. Cornish, Vaughan, D.Sc., Inglewood, Camberley, Surrey.
10. 1898. Crichton-Browne, Sir James, M.D., LL.D., D.Sc., F.R.S., 45 Hans Place, London, S.W. 1.
11. 1926. Fox, Cyril, Ph.D., F.S.A., Director of the National Museum of Wales, Cardiff.
12. 1920. Grabham, Oxley, M.A., Heron Cottage, Thornton Dale, Yorks.
13. 1923. Harmer, Sir Sidney F., K.B.E., Sc.D., F.R.S., The Old Manor House, Melbourn, near Royston, Herts.
14. 1924. Kendall, Prof. Percy F., D.Sc., F.R.S., F.G.S., Briarwood, Frinton-on-Sea, Essex.
15. 1926. Keith, Sir Arthur, M.D., LL.D., F.R.C.S., F.R.S., Conservator of Museum and Hunterian Professor, Royal College of Surgeons of England, London, W.C.
16. — Lightfoot, Thomas, Masham, Yorks.
17. 1929. Maclagan, Sir Eric, C.B.E., M.A., F.S.A., Director and Secretary of the Victoria and Albert Museum, London, S.W. 1.
18. 1925. Marriott, Sir John A. R., M.A., 17 Belgrave Square, London.
19. 1906. Müller, Sophus, Prindsens Palais, Copenhagen.
20. 1934. Parker, Col. John, C.B., D.L., F.S.A., Browsholme Hall, Nr. Clitheroe.
21. 1926. Peers, Sir C. R., C.B.E., M.A., F.B.A., F.S.A., President of the Society of Antiquaries of London.
22. 1927. Regan, C. Tate, M.A., D.Sc., F.R.S., F.L.S., Director of the British Museum (Nat. Hist.), London, S.W.
23. — Sadler, Sir Michael Ernest, K.C.S.I., C.B., D.Litt., LL.D., Master of University College, Oxford.
24. 1906. Shetelig, Dr. Haakon, Bergens Museum, Bergen, Norway
25. 1924. Smith, Arthur H., M.A., F.S.A., 2 Balfour Road, Weybridge, Surrey.
26. 1929. Thompson, Professor A. Hamilton, M.A., D.Litt., F.S.A., The University, Leeds.
27. 1930. Wheeler, R. Mortimer, M.C., D.Litt., M.A., F.S.A., London Museum, Lancaster House, London, S.W.
28. 1926. Woods, Henry, M.A., F.R.S., Sedgwick Museum, Cambridge.
29. 1923. Woodward, Sir A. Smith, LL.D., F.R.S., F.G.S., Hill Place, Hayward's Heath, Sussex.
30. 1922. Yeld, George, M.A., Orleton, Gerrard's Cross, Bucks.

PAST PRESIDENTS  
OF THE  
YORKSHIRE PHILOSOPHICAL SOCIETY.

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- 1822-1830. The Rev. William Venables Vernon, F.R.S., F.G.S. (Resigned at Annual Meeting, February, 1831.)
- 1831-1857. The Viscount Milton, F.R.S., F.S.A. (afterwards became the Earl Fitzwilliam). (See Ann. Rpt. for 1857, p. 15.) (Died 1857.)
- 1858-1864. The Earl of Carlisle, K.G., F.R.S. (Died 1864.)
- 1865-1890. His Grace the Lord Archbishop of York. (William Thomson, F.R.S., F.G.S.) (See Ann. Rpt. for 1890, p. 14.) (Died 1890.)
- 1892-1906. Sir Charles Strickland, Bart., F.G.S. (Resigned early in 1906.)
- 1906-1913. Tempest Anderson, M.D., D.Sc. (Died 26th August, 1913.)
- 1914-1933. William Herbert St. Quintin, D.L., J.P. (Died January 21st, 1933.)



## PHILOSOPHICAL SOCIETY FOR THE YEAR ENDING 31ST DEC., 1933.

		EXPENDITURE.									
<i>Last</i>						£	s.	d.	£	s.	d.
<i>Year</i>											
	<i>Rent, Rates and Taxes :</i>										
	Corporation Rent ... ..					20	0	0			
	Property Tax and City Rates ... ..					71	13	8			
	Waterworks Company's Rates ... ..					9	16	11			
	Gardeners' Licence ... ..					3	0	0			
102									104	10	7
	<i>Insurance :</i>										
	Fire Premiums, etc. ... ..					18	14	6			
	Boiler Insurance ... ..					8	3	0			
	Employers' Liability Premium ... ..					6	4	9			
	Fidelity Guarantee Premium ... ..					1	10	0			
	National Health and Unemployment Insurance					32	7	3			
68									66	19	6
14	Telephone Rent and Calls ... ..								13	14	11
	<i>Salaries and Wages :</i>										
	Museums ... ..					1599	2	0			
	Lodge and Gardens ... ..					599	0	4			
	Staff Pensions ... ..					142	2	6			
2699									2340	4	10
	<i>General Additions, Repairs, etc. :</i>										
	MUSEUMS—										
	Additions... ..					4	10	6			
	Repairs ... ..					13	6	10			
	General Expenses ... ..					54	2	8			
147									72	0	0
	GARDENS—										
	General Expenses ... ..					81	7	0			
	Bowling Green ... ..					8	12	6			
95									89	19	6
	ESTATE—										
	General Repairs, etc. ... ..					76	7	9			
200									76	7	9
442									238	7	3
	<i>Coal, Coke, Gas and Electricity :</i>										
III	Coal and Coke ... ..					94	12	2			
II	Gas ... ..					10	7	6			
103	Electricity ... ..					72	10	10			
225									177	10	6
59	Library—Books and Binding ... ..								39	4	11
35	Lectures ... ..								55	2	6
	<i>Printing and Stationery :</i>										
34	Annual Reports and Proceedings ... ..					46	1	6			
34	General Printing and Stationery ... ..					14	16	3			
68									60	17	9
	Fabric Fund ... ..								39	1	8
29	Picture Postcards, etc. ... ..								29	3	9
15	Postages and Receipts ... ..								12	0	0
									3176	18	2
	Excess of Income over Expenditure ... ..								181	0	8
									<u>£3357</u>	<u>18</u>	<u>10</u>
	Balance due to Treasurer, 31st December, 1933 ...					33	4	2			
						<u>£33</u>	<u>4</u>	<u>2</u>			

S. WALKER,  
Hon. Treasurer.

## THE LATE DR. ANDERSON'S BEQUEST.

<i>Capital.</i>	<i>Net Income.</i>		
	£	s.	d.
£8,000 New Zealand 4% Inscribed Stock... ..	320	0	0
£5,700 London & North Eastern Railway 4 % First Preference Stock	42	15	0
£2,500 London & North Eastern Railway 4 % Second Guaranteed Stock ... ..	75	0	0
£8,000 Canada 4% Registered Stock ... ..	240	0	0
£3,219 3s. 5d. Bank of England Stock ... ..	289	14	6
£5,777 2s. 6d. South Indian Railway 4% Registered Debenture Stock	173	6	4
£4,314 13s. 2d. 3½% War Loan Stock ... ..	151	0	2
£2,000 4½% Conversion Loan ... ..	90	0	0
£45 Deposit at Midland Bank ... ..		13	5
Rents of Shops and Dwelling-houses, Nos. 32 & 34, Bootham	65	0	0
	£1,447 9 5		
Income Tax recovered (1 year) ... ..		273	11 10
	£1,721 1 3		

Memo :—The above items are shown less tax, if deducted.

THE TREASURER'S ACCOUNT IN CONNECTION WITH THE FUND FOUNDED BY  
THE LATE WM. REED, ESQ., FOR SPECIFIC PURPOSES, 1933.

Dr.	INCOME.	£	s.	d.	EXPENDITURE.	£	s.	d.
	To Balance brought forward	24	13	0				
	„ Interest on York Corporation 3% Redeemable Stock, less tax	13	10	0	By New Books and Binding			15 4 0
	„ Income Tax recovered, 1933	4	10	0	Excess of Income over Expenditure			28 9 0
	„ Interest on £50 placed on Deposit with Midland Bank, Ltd.	15	0	0				
	„ Bank Interest	0	5	0				
		<u>£43</u>	<u>13</u>	<u>0</u>				<u>£43 13 0</u>

BALANCE SHEET.

Amount of Fund on 31st December, 1933	£	s.	d.
Amount invested in York Corporation 3% Redeemable Stock	600	0	0
Amount placed on Deposit with the Midland Bank, Ltd.	50	0	0
Balance at Midland Bank, Ltd.	28	9	0
	<u>£678</u>	<u>9</u>	<u>0</u>

Audited and found correct.

S. WALKER,

Hon. Treasurer.

ARTHUR D. GLADWIN,

9th February, 1934.

Dr. ST. MARY'S ABBEY RESTORATION FUND, 1933. Cr.

INCOME.		EXPENDITURE.	
	£ s. d.		£ s. d.
To Subscriptions for 1933	... 4 5 3	By Balance brought forward	... 353 19 3
„ Amount transferred from Fabric Fund	... 39 1 8	„ Bank Interest and Commission	... 16 12 0
„ St. Mary's Abbey Wall Fund	... 28 1 10		
„ Balance ...	... 299 2 6		
	<u>£370 11 3</u>		<u>£370 11 3</u>

STATEMENT OF FUND.

	£ s. d.		£ s. d.
To Subscriptions received to 31st Dec., 1933	... 423 7 9	By G. Walker & Son (Repair of Hospitium)	... 4772 6 1
„ Champney Bequest	... 2141 15 7	„ York Corporation (Electric Heating)	... 265 18 0
„ Y.P.S. General A/c.	... 1944 12 0	„ Supervisor's Fees	... 40 10 0
„ Fabric Fund	... 336 7 11	„ General Expenses	... 48 14 10
„ St. Mary's Abbey Wall Fund	... 28 1 10	„ Bank Interest and Commission	... 61 10 0
„ War Stock Interest	... 12 7 0		
„ Profit on Sale of War Stock	... 3 4 4		
„ Amount due to Midland Bank, Ltd.	... 299 2 6		
	<u>£5188 18 11</u>		<u>£5188 18 11</u>

Audited and found correct.

S. WALKER,

Hon. Tre surer.

ARTHUR D. GLADWIN,

9th February, 1934.





## FABRIC FUND, 1933.

Cr.

Dr.	£	s.	d.	EXPENDITURE.	£	s.	d.
INCOME.							
To Balance brought forward	1	6	2	By St. Mary's Abbey Restoration Fund	39	1	8
„ 1/4th Income Tax recovered, 1933	39	1	8	„ Balance	1	6	2
	<u>£40</u>	<u>7</u>	<u>10</u>		<u>£40</u>	<u>7</u>	<u>10</u>

## BALANCE SHEET.

Dr.	£	s.	d.	Cr.	£	s.	d.
Amount of Fund, 31st December, 1933	1	6	2	Balance at Midland Bank, Ltd.	1	6	2
	<u>£1</u>	<u>6</u>	<u>2</u>		<u>£1</u>	<u>6</u>	<u>2</u>

## STATEMENT OF FUND.

Dr.	£	s.	d.	Cr.	£	s.	d.
To 1/4th Income Tax recovered	322	3	4	By St. Mary's Abbey Restoration Fund	336	7	11
„ War Stock Interest	11	0	6	„ Balance at Midland Bank, Ltd.	1	6	2
„ Bank Interest, less Commission	2	5	0				
„ Profit on Sale of War Stock	2	5	3				
	<u>£337</u>	<u>14</u>	<u>1</u>		<u>£337</u>	<u>14</u>	<u>1</u>

Audited and found correct.

S. WALKER,  
Hon. Treasurer,

ARTHUR D. GLADWIN,  
9th February, 1934.

The Yorkshire Museum,

YORK.

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Report

of the

Museum Committee

FOR THE YEAR 1933.

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PRINTED BY ORDER OF THE COUNCIL.

1934.



# THE YORKSHIRE MUSEUM, YORK.

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*Keeper :*

WALTER E. COLLINGE, D.Sc., M.Sc., F.S.A., F.L.S.,  
M.B.O.U., Hon. F.R.H.S.

*Honorary Curators :*

ARCHÆOLOGY	- - -	{ W. HARVEY BROOK. W. A. EVELYN, M.A., M.D. (Cantab.)
GEOLOGY	- - - -	SIDNEY MELMORE, B.Sc., F.G.S.
ROMAN ANTIQUITIES	-	REV. A. RAINE, M.A.
BOTANY	- - - - -	H. J. WILKINSON.
ZOOLOGY	- - - -	SYDNEY H. SMITH, J.P., F.Z.S.
ENTOMOLOGY	- - -	S. WALKER, F.R.E.S.
CONCHOLOGY	- - -	H. SOWDEN.
ASTRONOMY	- - -	J. SCOTT.
NUMISMATICS	- - -	GEOFFREY THOMPSON, M.A.
CERAMICS	- - - -	ARTHUR HURST, A.K.C.

*Assistants :* { MISS E. HOLMES.  
FRANCIS T. G. WHITE.

*Chief Clerk :* ARTHUR COLLEY.

*Museum Attendant :*  
WILLIAM RAFTON.

*Hospitium Attendant :*  
MISS G. FISHER.



## THE YORKSHIRE MUSEUM.

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### REPORT FOR THE YEAR 1933.

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**D**URING the past year considerable progress has been made in the classification and relabelling of the Collections. Nearly all the Collections have now been brought up to date.

Amongst the more interesting additions are the Sea-chest and Cash Box of Admiral Hawke presented by Lord Hawke, and a model of H.M.S. Berwick, lent by Lord Hawke; a head and fore limb of *Ichthyosaurus communis* presented by Mr. J. Horatio Fraser; two pistols which once belonged to the Young Pretender, Prince Charles Edward, and an iron whip found on Marston Moor, both presented by Mrs. S. A. Charlton of Thirsk.

On June 15th, the Thoroton Society of Nottinghamshire visited the Museum of Mediaeval Architecture and the ruins of St. Mary's Abbey. The members met in the Tempest Anderson Hall, when a short address on the History of St. Mary's Abbey and the Mediaeval Architectural Museum was given by Dr. Collinge.

The Society of Pewter Collectors held their Summer Meeting at York on June 17th, when a visit was paid to the Museum to inspect the Society's Collection of Pewter. Sixty-four pieces were on exhibition, in addition to twenty pieces kindly lent by J. Triffitt, Esq.

The Yorkshire Architectural and York Archaeological Society continues to hold its meetings and house its Library in the Museum.

EDUCATIONAL WORK. During the year 591 children from Schools in the City attended the Museum for study and instruction, and 341 students from the City School of Arts and Crafts.

The number of schools and other organizations which have visited the Museums, exceeds any previous record. (For full list see p. 31.)

During January and February the Keeper made six tours of the Museum on Saturday afternoons, and described various Collections. There was an average attendance of twenty-seven visitors, who evinced great interest.

In connection with various B.B.C. Talks special exhibitions were made to illustrate Mr. Charles Elton's "Five Talks on Exploring the Animal World" from April 21st to May 19th, and Miss Grace Hadow's "Six Talks on Local History" from May 26th to June 30th.

Many students engaged in archæological, geological, and zoological research have made use of the Library.

The Collections or Specimens have been studied by Dr. W. J. Arkell, M.A., University Museum, Oxford; Sir J. F. Colyer, K.B.E., F.R.C.S., London; Domingo P. Acosta, Puebla, Mexico; W. Arnold Thorpe, Victoria and Albert Museum, London; Dr. J. Grafton Milne, M.A., Oxford; W. S. Ascoli, Bollington; Henry Collett, London; J. C. Fenton, Cleckheaton; Miss Mary A. Johnstone, Cheadle Hulme; R. H. Edleston, F.S.A., Gainford; T. D. Cowen, Shotley Bridge; Dr. Vernon Wilson, F.G.S., Leeds University; A. M. Haggis, F.L.S., Wellcome Historical Medical Museum, London; Miss Anne S. Robertson, M.A., Glasgow University; D. K. Hughes, York; Miss M. Kitson Clark, Leeds; Dr. J. F. S. Stone, Salisbury; C. N. V. Sutherland, Ashmolean Museum, Oxford; Gilbert Askew, F.S.A. (Scot.), Society of Antiquaries, Newcastle-on-Tyne, and T. Bishop, The Bodleian Library, Oxford.

Turning to the different departments of the Museum :—

ETHNOLOGY. A slight rearrangement of some of the cases has resulted in widening the gangways and at the same time affording a slightly increased space to the Boynton Collection.



Lady Thomson has lent an interesting exhibit in the form of a Road Measuring Wheel. Many flint, stone and bronze specimens found locally have been added to the Collections.

The Collection of Pewter has been cleaned and rearranged.

**GEOLOGY.** The nucleus of a collection of glacial pebbles has been formed, which it is hoped may ultimately become representative of the various Boulder Clays of East Yorkshire. A series of erratics from Brayton Barff, recently presented by Mr. J. W. Stather, F.G.S., is included in the present collection.

**ZOOLOGY.** The collection is now completely rearranged and its clean condition reflects the greatest credit on Dr. Collinge and his staff who have laboured so patiently on a task which was at once so necessary but extremely difficult because previous neglect had allowed many of the specimens to become almost unrecognisable. There are a number of birds which require replacing, and this work is gradually being accomplished, when new ones are available, and names of desired species will be supplied to interested workers in this department on inquiry from the Keeper of the Museum.

Interesting additions during the year include a fine Badger presented by Mr. Chas E. Elmhirst, and a white Jay the gift of Mr. Alan H. Mackay. In the vicinity of York small colonies of badgers have existed for centuries at Castle Howard, Kirkham, Acaster and Kilnwick Percy, chiefly because of their nocturnal habits and generally harmless nature, their food consisting principally of roots, beetles and grubs, and occasional young rabbits, mice, voles, etc. The handsome blue-winged jays are now more numerous in all the wooded country around York, owing to gamekeepers being fewer in number than formerly, and because of their own wary nature causing their little parties to get out of range of a gun with remarkable celerity and loud screeches. It is rare to see a pure white variety from the usual colouring, hence the welcome extended to the new specimen.

**ENTOMOLOGY.** Not since the Society acquired the "Allis Collection" of British Lepidoptera, sixty years ago, has such an important addition to the Society's Collection been made, as that of our late President, Mr. W. H. St. Quintin, of his fine Palæarctic Butterflies and Moths, contained in three

mahogany cabinets of sixty-eight drawers. The specimens are in excellent condition, and constitute a valuable addition to the Entomological Department of the Museum.

Some rearrangement is being made to accommodate the growing collection of insects, but it is regrettable that so much valuable material as we possess, cannot be placed in a more suitable room and made available for study by students of Entomology.

All other collections of insects have been maintained in good condition.

ASTRONOMY. All the instruments are in good order, and a number of observations have been taken, and new webs fitted on the Transit Instruments, which have been readjusted. The Observatory is open to members at the close of the lectures when the sky is clear.

BOTANY. The specimens of British Flowering Plants and Ferns in the Herbarium are in fair condition.

The foreign specimens require attention and more room.

The following additions have been made during the year :— Twenty-four specimens of Myxomycetes from Dr. W. T. Elliott, F.L.S., Tanworth-in-Arden; Twenty-four specimens of British Flowering Plants and Ferns from Mr. T. J. Foggitt of Thirsk.

NUMISMATICS. There is nothing of outstanding importance to report in this section. Our few Greek coins have been provisionally arranged, and work is beginning on the Medals. Some welcome gifts have been received, but it has not been possible to make any purchases or to spend anything on the collections. We have, however, acquired by exchange some coins, including the very rare York Groat of Richard III. During the year the collections have been visited by several specialists and officials from other museums who have found our collections to contain valuable material for reference.

CERAMICS. The Collections have been maintained in an efficient state during the past year. A few new specimens have been added to the Collections.

LIBRARY. During the year 35 volumes have been added by purchase, and 24 by presentation, in addition to the usual unbound memoirs. The number of volumes borrowed was 348.

METEOROLOGY. Statistics of Station: Longitude  $1^{\circ} 5'$  W.; Latitude,  $55^{\circ} 57'$  N.; height above mean sea level, 56 feet.

The rainfall for 1933 was below normal, being 23.02 inches, 2.48 inches below the average for over 50 years. The wettest months of the year were February, March, May, September, October and November, when the totals for the months were: 4.11, 2.06, 2.26, 2.09, 3.33 and 2.70 respectively. July, August and December were the driest months with 0.95, 0.50 and 0.51 inches respectively.

Temperature ranged from  $89^{\circ}$  F. on August 28th to  $21^{\circ}$  F. on January 20th; the range of temperature for 1933 being thus:  $68.0^{\circ}$  F. as against  $60.0^{\circ}$  F. for 1932. A mean pressure of 1016.4 millibars (1,000 millibar= $29.531$  inches of mercury) at M.S.L. (corrected for diurnal variations), has been recorded as against 1015.4 millibars for 1932. June gave the lowest mean for the year, 1012.0 millibars, October next with 1012.5 millibars. December was highest, 1023.9 millibars, and January next with 1020.2 millibars. The extreme range was 1.19 inches as compared with 1.96 inches in 1932. The highest reading of the barometer was taken December 3rd at 9 p.m., viz.: 30.763 inches, and the lowest on March 17th at 9 p.m., viz.: 28.909 inches.

Snow or Rain fell to the amount of 23.02 inches or 584.8 mm., as against 24.91 inches or 632.7 mm. for 1932, a decrease of 1.89 inches or 47.9 mm. for the year. The heaviest fall of the year occurred on February 25th, when 30.0 mm. (1.18 inches) fell. The cumulative totals for the years since 1820 are, for the heaviest monthly falls, August 6000.35 mms., October 5753.48 mms., and July 5432.30 mms.

Observations of Winds show that during 1933 we had "strong" winds on 3 days (force 4-7 on scale 0-12), 3 days less than 1932, and "calm" on 4 days as in 1932. The chief winds have been observed as S.(90), N.(83), W.(46), N.E.(30), S.W.(31), and N.W.(32).

Thunder was heard on 10 days, snow or sleet fell on 19 days, as against 6 days in 1932; and there were hailstorms on 2 days, as against 8 days the previous year.

Bright Sunshine was recorded 1379.7 hours as against 1090.2 hours in 1932, an increase of 289.5 hours for the year. The daily mean was 3.77 hours, and the percentage of possible sunshine 31 as against 24 in 1932.

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It is urgently requested that any discovery of Archæological interest in the neighbourhood may be brought to the notice of the Keeper of the Museum, or the Honorary Curators, as early as possible.

The Keeper of the Museum will be pleased to give any information in his power, and may be seen daily, Museum engagements permitting.

## LIST OF SCHOOLS

AND OTHER ORGANIZATIONS THAT HAVE VISITED THE MUSEUMS DURING 1933.

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- April 3rd—Girls' Secondary School, Goole.
- April 4th—Dame Allen's Girls' High School, Newcastle-on-Tyne.
- April 8th—Church Schools, Goole.
- April 19th—Boys' School, Huddersfield.
- April 20th—Dublin Archæological Society.
- May 5th—Yarm Grammar School.
- May 6th—Yorkshire Photographic Union.
- May 9th—Firth Road Secondary School, Sheffield.
- May 13th—Yorkshire Geological Society.
- May 13th—Meltham School.
- May 20th—Ashton Road School, Castleford.
- May 20th—The High School, Wakefield.
- May 25th—Diocesan Training College, Liverpool.
- May 25th—St. John the Evangelist School, Liverpool.
- May 25th—Lorraine Street School, Liverpool.
- May 25th—St. Saviour's School, Leeds.
- May 25th—Woolton Parish Church School, Liverpool.
- May 25th—Ings Road Central School, Wakefield.
- May 26th—Marsden School
- May 26th—King George Vth School, Southport.
- May 26th—Girls' High School, Middlesbrough.
- May 27th—Women's Unionist Association, Macclesfield.
- May 29th—Diocesan Mothers' Union.
- May 30th—Derby Lane Girls' School, Birdholme.
- May 30th—Bolton Mothers' Union.
- June 10th—Morpeth High School for Girls.
- June 15th—Hyde Park Council School, Senior Boys, Doncaster.

- June 15th—North Lonsdale Women's Unionist Association.
- June 15th—Thoroton Society of Nottinghamshire.
- June 16th—Convent of S.H. of Mary, Grosslands.
- June 16th—Alfred Barrows Central Girls' School, Barrow-in-Furness.
- June 16th—Ingleton School, Co. Durham.
- June 16th—Sowerby Bridge Secondary School.
- June 16th—Holker Street Council School, Barrow-in-Furness.
- June 17th—Evening Institute, Gt. Houghton.
- June 17th—The Society of Pewter Collectors.
- June 19th—Reeth Women's Institute.
- June 20th—Manchester Training College.
- June 21st—Rotherham Grammar School.
- June 21st—Blyth Harbour Council Workers.
- June 22nd—Master Builders' Federation.
- June 24th—Normanton High School.
- June 24th—Regent Street School, Heywood.
- June 24th—Ambler Schools.
- June 26th—St. John's Training College, York.
- June 28th—The Oulton School, Liverpool.
- June 28th—Edge Hill Training College, Liverpool.
- June 29th—St. Sebastian's Schools, Liverpool.
- June 29th—Wakefield Historical Society.
- June 30th—Shotton Senior Boys' School.
- June 30th—South Helton Girls' School.
- June 30th—Merton School.
- June 30th—The Park Central School, Colne.
- July 1st—Lapage Street Boys' Modern School, Bradford.
- July 3rd—Yorkshire Architectural and York Archæological Society.
- July 3rd—The Classical Society of the University of Manchester.
- July 6th—Saltaire Road, Shipley, Boys' School.
- July 7th—Pelton Intermediate School.
- July 7th—Wadsley Bridge Council School.
- July 8th—Church of England Girls' School, Ilkley.
- July 8th—Tong Park Council School, Baildon.
- July 11th—Owler Lane Council School, Sheffield.
- July 12th—Sale High School for Boys.
- July 14th—Crookesmoor Girls' Council School.
- July 14th—Stand Grammar School.

- July 14th—George Street School, Birtley.
- July 15th—Poplar Street School, Openshaw.
- July 15th—West Riding Referees' Association.
- July 19th—Mexborough Secondary School.
- July 20th—Elswick Road Central School, West Hartlepool.
- July 20th—Gledhow Church of England Day Schools.
- July 21st—The College, Harrogate.
- July 22nd—Wakefield Naturalists' Society.
- July 24th—Spurley Hey Central School.
- Aug. 3rd—Calday Grange Grammar School, West Kirby.
- Aug. 8th—International Friendship League.
- Sept. 1st—Coltsgate Hill Council School, Ripon.
- Sept. 9th—Wigginton Council School.
- Sept. 16th—Oxford Street School, Bridlington.
- Oct. 7th—Christ Church School, Bootle.
- Oct. 7th—Secondary School, Bootle.
- Oct. 7th—Junior Technical School, Bootle.
- Oct. 13th—East Acklam School.
- Oct. 18th—Girls' School, Ackworth.
- Oct. 28th—Hunmanby School.
- Nov. 4th—The Red House School, Moor Monkton.
- Nov. 22nd—Bootham School, York.

# CLIMATOLOGICAL SUMMARY—THE YORKSHIRE MUSEUM, YORK, 1933.

Heights above Ground :—Thermometers 4 ft. Rain-gauge 1 ft.

1933.	Air Temperature in Degrees Fahrenheit.										Earth Temperature			Rainfall.				Weather.						Bright Sunshine.			
	Means of		Means of		Absolute Extremes.						At 1 ft.		At 4 ft.		Total.		Maximum Fall.		Number of Days of						Total.	Daily Mean.	Per cent.
	Max.	Min.	Max.	Min.	H. Max.	Day.	L. Min.	Day.	L. Max.	Day.	H. Min.	Day.	in.	mm.	in.	mm.	Precipitation or more.	Snow.	Snow Lying.	Hail.	Thunder storm.						
	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	hr.	hr.	%	
Jan.	41.1	32.4	36.7	21	3, 8, 9	54	23	31	20	45	8	38.2	43.2	1.83	46.5	1.04	26.4	7	4	16	0	0	31.7	1.02	13		
Feb.	45.1	34.4	39.7	23	8, 9	57	24	35	20	50	5	38.4	41.4	4.11	104.4	1.18	30.0	13	11	10	0	0	63.4	2.26	23		
March	53.8	37.3	45.5	30	27	64	1	43	27	44	9	41.3	41.8	2.06	52.3	.34	8.6	15	1	0	1	0	135.4	4.37	37		
April	55.9	41.6	48.7	31	7, 8, 11	64	20	46	19	50	10, 27	46.7	45.1	1.09	27.7	.28	7.1	9	2	0	1	1	100.6	3.35	24		
May	60.7	46.4	53.5	41	22	75	3	50	10	54	21	53.0	49.3	2.26	57.4	.46	11.7	16	0	0	0	1	117.8	3.80	24		
June	69.6	50.7	60.1	43	4, 5, 6, 7	85	13, 18	59	12	60	6	60.0	54.7	1.59	40.4	.36	9.1	10	0	0	0	4	234.5	7.82	46		
July	73.5	55.7	64.6	50	3	88	13, 15	64	22, 30	60	25	63.2	58.2	0.95	24.1	.27	6.9	11	0	0	0	3	216.6	6.99	42		
August	74.2	55.8	65.0	47	28	89	21	65	22	68	4	63.0	59.9	0.50	12.7	.16	4.1	6	0	0	0	1	204.3	6.59	45		
Sept.	68.6	49.8	59.2	41	4	80	24	59	16, 21	59	3, 5	59.2	59.1	2.09	53.1	.93	23.6	7	0	0	0	0	149.8	4.99	39		
October	56.2	44.6	50.4	35	4	67	26	41	28	54	1, 6, 23	52.6	55.6	3.33	84.6	.75	19.1	14	0	0	0	0	68.2	2.20	21		
Nov.	47.3	38.7	43.0	27	8	55	26	39	13	48	8	45.2	50.1	2.70	68.6	.63	16.0	20	0	0	0	0	36.6	1.22	14		
Dec.	40.0	33.0	36.5	26	15	46	21	29	6, 20, 21	39	2	39.4	45.3	0.51	13.0	.12	3.0	12	1	0	0	0	20.8	0.67	9		
Totals	686.0	520.4	602.9	—	—	—	—	—	—	—	—	600.2	603.7	23.02	584.8	—	—	153	107	26	2	10	1379.7	45.28	31		
Means	57.2	43.4	50.2	—	—	—	—	—	—	—	—	50.0	50.3	—	—	—	—	—	—	—	—	—	3.78	3.77	—		



# CLIMATOLOGICAL SUMMARY—THE YORKSHIRE MUSEUM, YORK, 1933.

Latitude 53° 57' N. Longitude 1° 5' W. Height above Mean Sea Level 56 ft.

1933.	Mean Pressure corrected to 32° F. and lat. 45° and reduced to Mean Sea Level.				Air Temperature		Humidity.				Mean Amount of Cloud, 0-10		Cloud Amount, 9 a.m.				Wind, No. of Observations, 9 a.m.																																					
	9 a.m.		9 p.m.		9 a.m.		9 p.m.		Depression of Wet Bulb.		Vapour Pressure.		Percentage.		9 a.m.		9 p.m.		0		1-3		4-6		7-9		10		0		1-3		4-7		8-10		∞		E		SE		S		SW		W		NW					
	mb.		in.		° F.		° F.		° F.		mb.		%		° F.		mb.		%		No.		No.		No.		No.		No.		No.		No.		No.		No.		No.		No.		No.		No.									
	9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.		9 a.m.		9 p.m.							
Jan.	1020.2	1019.3	30.13	30.10	35.0	36.5	0.8	1.4	6.3	6.5	92	87	8.0	6.7	5	0	2	3	21	10	0	0	31	0	4	3	2	2	11	4	4	3	2	2	11	4	4	3	2	2	11	4	4	3	2	4	1	4						
Feb.	1014.0	1014.9	29.94	29.97	38.8	39.1	1.7	1.3	6.8	7.1	85	8	6.3	6.2	9	1	1	1	16	16	0	0	27	0	9	1	1	2	7	2	9	1	1	1	7	2	2	2	4	2	7	2	4	2	4	1	2							
Mar.	1012.7	1012.0	29.91	29.88	43.5	43.4	2.5	2.3	7.4	7.6	79	80	4.5	4.6	12	2	6	2	9	9	0	0	31	0	1	1	0	6	15	4	1	0	6	4	1	1	4	4	1	3	3	1	3	3	3	3	3	3	3					
April	1019.1	1019.5	30.09	30.11	48.6	47.7	3.5	3.0	8.8	8.8	74	77	7.7	5.7	3	2	2	7	16	16	0	1	29	0	4	2	1	1	7	2	7	2	1	1	7	2	2	10	3	3	0	3	3	3	3	3	3	3	3					
May	1015.6	1015.7	29.99	29.99	53.2	52.9	3.7	3.3	10.3	10.7	75	78	7.5	7.8	3	1	5	6	16	16	0	0	31	0	12	3	4	6	3	4	3	4	3	4	6	3	4	3	0	3	3	0	3	3	0	3	3	3	3	3				
June	1012.0	1012.0	29.89	29.89	61.5	58.8	5.2	4.5	12.9	12.5	71	73	5.7	4.5	6	4	6	4	10	10	0	0	30	0	11	4	0	3	4	3	4	4	4	4	0	2	2	3	7	7	7	7	7	7	7	7	7	7	7	7				
July	1016.3	1016.3	30.01	30.01	66.2	63.9	5.2	4.1	15.9	15.8	73	77	6.3	6.3	5	3	5	9	9	9	9	0	0	31	0	4	0	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
Aug.	1017.1	1015.9	30.03	30.00	64.9	63.5	6.1	5.1	14.3	14.1	68	72	5.9	4.3	2	9	4	5	11	11	0	0	30	1	2	0	0	0	2	11	4	4	0	0	2	2	2	11	4	4	1	4	4	4	4	4	4	4	4	4	4	4	4	
Sept.	1019.5	1019.6	30.11	30.11	59.2	58.2	3.7	3.3	13.3	13.1	78	79	5.7	2.6	6	6	2	6	10	10	0	0	29	1	12	7	2	2	4	4	4	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
Oct.	1012.5	1012.5	29.90	29.90	50.5	48.9	2.3	2.0	10.3	10.1	83	85	7.1	5.0	2	4	5	5	15	15	0	1	28	2	9	2	1	1	1	9	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Nov.	1014.6	1015.6	29.96	29.99	41.8	43.3	1.5	1.3	7.9	8.4	87	89	7.6	8.0	3	2	3	5	17	17	0	0	30	0	10	2	1	1	4	3	3	2	2	1	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Dec.	1023.9	1023.5	30.24	30.23	35.6	36.3	1.2	1.4	6.3	6.2	88	86	8.3	7.7	3	1	2	4	21	21	0	0	31	0	5	5	6	6	10	10	10	5	6	6	10	1	6	6	10	1	6	6	10	1	6	6	10	1	6	6	10	1	6	6
Totals	12197.5	12196.8	—	—	598.8	592.5	37.4	33.0	120.5	120.9	953	971	80.6	69.4	59	35	43	57	171	171	0	3	358	4	83	30	20	29	90	31	46	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Means	1016.5	1016.4	30.02	30.01	49.9	49.4	3.1	2.7	10.0	10.1	79	81	6.7	5.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			

Pressure is expressed in millibars (1,000 millibars = 29.531 mercury inches), also in mercury inches.

RIVER HEIGHT RECORDS REGISTERED BY THE AUTOMATIC RECORDER

AT THE GUILDHALL, YORK, 1933.

Date	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.	
	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.
1	1 a.m.	above 0 6	12 p.m.	above 8 3	1 a.m.	above 10 11	12 p.m.	above 1 3	4 p.m.	above 1 4	noon	above 0 7
2	12 p.m.	1 0	6 p.m.	10 0	"	10 4	4 p.m.	1 4	1 a.m.	1 3	"	0 7
3	"	3 9	1 a.m.	8 11	12 p.m.	7 0	12 p.m.	1 2	6 p.m.	1 0	"	0 6
4	1 a.m.	3 9	"	3 5	"	12 0	"	1 1	12 p.m.	1 1	12 p.m.	0 4
5	12 p.m.	2 3	12 p.m.	6 5	"	13 5	"	1 1	8 p.m.	1 4	noon	0 4
6	6 a.m.	2 6	2 p.m.	7 10	"	14 0	"	1 1	12 p.m.	1 11	1 a.m.	0 6
7	1 a.m.	1 5	1 a.m.	5 5	1 a.m.	14 0	"	1 1	12 p.m.	4 9	noon	0 3
8	Recorder stopped		6 p.m.	2 10	"	12 6	9 p.m.	1 0	"	5 8	"	0 3
9	Recorder reading incorrectly		12 p.m.	3 0	"	10 6	12 p.m.	1 0	1 a.m.	3 10	"	0 3
10	9 a.m.	above 2 3	"	7 6	"	8 6	12 p.m.	1 2	"	1 6	"	0 3
11	12 p.m.	1 6	1 a.m.	7 7	"	6 9	3 p.m.	1 2	"	1 0	2 p.m.	0 3
12	noon	1 8	"	4 5	"	4 3	10 p.m.	1 0	"	0 5	12 p.m.	0 3
13	1 a.m.	1 5	"	2 6	"	2 9	"	0 11	12 p.m.	0 7	noon	0 5
14	11 p.m.	1 2	"	1 11	11 p.m.	2 9	12 p.m.	0 9	6 p.m.	0 7	"	0 4
15	12 p.m.	1 8	"	1 11	noon	2 8	noon	0 9	12 p.m.	2 9	3 p.m.	0 4
16	"	3 8	7 p.m.	1 11	9 p.m.	2 7	4 p.m.	0 10	4 p.m.	below 3 4	noon	0 4
17	1 a.m.	3 8	1 a.m.	1 9	4 p.m.	3 1	12 p.m.	0 9	"	3 5	"	0 4
18	"	2 11	noon	1 6	12 p.m.	2 10	8 p.m.	0 11	"	0 5	12 p.m.	0 3
19	"	2 5	1 a.m.	0 11	"	2 10	1 p.m.	1 0	noon	1 2	"	0 7
20	"	1 9	noon	0 9	7 p.m.	4 7	6 p.m.	0 11	1 a.m.	1 0	8 p.m.	1 5
21	12 p.m.	1 4	12 p.m.	1 0	1 a.m.	4 5	9 p.m.	1 0	"	0 10	1 a.m.	1 3
22	1 a.m.	1 4	noon	1 0	"	3 1	"	0 11	12 p.m.	0 11	"	0 10
23	"	1 1	1 a.m.	0 11	"	2 8	12 p.m.	0 10	12 p.m.	0 11	"	0 8
24	12 p.m.	0 9	8 a.m.	0 10	12 p.m.	2 0	"	0 10	1 a.m.	0 11	noon	0 6
25	"	0 9	12 p.m.	0 9	1 a.m.	1 11	6 p.m.	1 0	"	0 8	1 a.m.	0 7
26	1 a.m.	0 9	"	3 7	"	1 8	12 p.m.	1 3	"	0 7	noon	0 6
27	"	0 8	"	9 7	"	1 6	1 a.m.	1 3	"	0 7	12 p.m.	0 6
28	"	0 7	"	10 11	"	1 5	3 p.m.	1 7	"	0 6	1 a.m.	0 5
29	12 p.m.	0 8	noon	1 3	noon	1 3	1 a.m.	1 4	12 p.m.	0 8	noon	0 3
30	6 p.m.	1 1	"	1 3	"	1 3	1 a.m.	1 1	"	0 8	"	0 2
31	12 p.m.	1 4	12 p.m.	1 3	12 p.m.	1 3	12 p.m.	1 1	"	0 7	"	0 2

RIVER HEIGHT RECORDS.—Continued.

Date	JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.	
	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.
1	noon	above 0 3	1 p.m.	above 1 2	7 p.m.	above 0 3	1 a.m.	above 0 1	12 p.m.	above 1 0	12 p.m.	above 0 8
2	1 a.m.	0 2	1 a.m.	0 9	"	0 2	"	below 0 1	"	1 6	"	0 7
3	noon	0 3	2 p.m.	0 7	6 p.m.	below 0 4	9 a.m.	0 4	11 a.m.	1 11	5 p.m.	0 8
4	"	0 4	6 p.m.	0 6	3 p.m.	above 0 3	"	0 5	1 a.m.	1 10	12 p.m.	0 6
5	"	0 2	5 p.m.	0 5	10 a.m.	below 0 4	"	0 3	"	1 8	"	0 6
6	"	0 3	noon	0 1	noon	0 6	noon	0 5	"	1 5	"	0 6
7	1 a.m.	0 3	"	0 2	12 p.m.	0 8	"	0 4	"	1 0	"	0 5
8	noon	0 2	3 p.m.	0 4	1 a.m.	0 11	7 p.m.	above 0 4	12 p.m.	0 10	"	0 5
9	1 a.m.	0 3	noon	0 7	3 p.m.	above 0 1	6 p.m.	1 0	"	0 9	1 a.m.	0 5
10	8 a.m.	0 5	6 p.m.	0 2	12 p.m.	below 0 6	12 p.m.	1 7	"	0 9	5 p.m.	0 7
11	noon	0 3	5 p.m.	0 3	noon	0 8	9 a.m.	1 10	3 p.m.	1 0	9 p.m.	0 6
12	12 p.m.	0 8	1 a.m.	0 1	1 a.m.	0 6	5 a.m.	1 10	5 p.m.	0 11	12 p.m.	0 6
13	"	0 11	noon	0 3	9 a.m.	0 6	1 a.m.	1 0	6 a.m.	0 9	7 p.m.	0 5
14	"	1 11	4 p.m.	below 0 3	11 a.m.	0 6	12 p.m.	1 5	8 a.m.	0 9	9 p.m.	0 5
15	1 a.m.	1 11	6 p.m.	above 0 3	"	0 4	6 a.m.	2 7	12 p.m.	3 1	12 p.m.	0 4
16	"	1 4	5 p.m.	0 2	noon	0 4	12 p.m.	1 3	5 p.m.	6 8	"	0 5
17	9 p.m.	1 0	7 p.m.	0 2	12 p.m.	0 7	1 a.m.	1 3	1 a.m.	5 7	6 p.m.	0 9
18	noon	1 0	6 p.m.	0 2	noon	0 8	"	0 11	12 p.m.	3 8	12 p.m.	0 6
19	6 p.m.	0 8	"	0 3	10 a.m.	0 6	"	0 2	2 p.m.	4 6	9 p.m.	0 6
20	12 p.m.	0 6	2 p.m.	below 0 5	11 a.m.	0 6	12 p.m.	0 1	1 a.m.	3 9	"	0 5
21	"	0 5	6 p.m.	above 0 5	"	0 6	6 p.m.	0 3	"	1 10	8 p.m.	0 6
22	"	0 5	"	0 0	noon	0 7	4 p.m.	0 3	"	1 7	9 p.m.	0 5
23	1 a.m.	0 4	8 p.m.	0 0	"	0 9	"	1 0	"	1 3	4 p.m.	0 5
24	6 p.m.	0 3	1 a.m.	0 0	"	0 5	1 a.m.	0 8	12 p.m.	1 1	5 p.m.	0 7
25	2 p.m.	0 3	7 p.m.	0 0	3 p.m.	above 0 2	12 p.m.	0 8	1 a.m.	1 1	3 p.m.	0 7
26	6 p.m.	0 4	Recorder stopped	0 2	"	2 3	11 p.m.	0 7	12 v.m.	1 0	12 p.m.	0 5
27	"	0 4	3 p.m.	above 0 2	1 a.m.	1 5	12 p.m.	0 7	1 a.m.	1 0	"	0 8
28	"	0 4	9 a.m.	below 0 6	"	0 4	1 a.m.	0 6	"	0 9	3 a.m.	0 9
29	"	0 4	6 p.m.	above 0 1	8 p.m.	0 4	12 p.m.	0 3	12 p.m.	0 8	1 a.m.	0 6
30	12 p.m.	0 1	noon	below 0 5	1 a.m.	0 3	8 p.m.	1 6	"	0 8	6 p.m.	0 5
31	5 p.m.	0 6			1 a.m.	0 3	9 a.m.	1 5		0 8	5 p.m.	0 7

RAINFALL IN 1933  
AT CHERRY HILL, YORK

Rain Gauge: Dia. of Funnel, 5 in.;  
Height above Ground, 1 ft. 6 in.  
" " Sea level, about 50 ft.

Month	Total Rain-fall for month	Days with .01 in. or more.	Days with .04 in. or more.	Date of Highest Rainfall	Am't. in ins.
Jan.	1.92	10	8	14/15	1.25
Feb.	4.25	17	15	25/26	2.17
Mar.	1.66	13	10	9	.26
April	1.74	8	8	16/17	.57
May	2.13	10	10	6/7	1.09
June	1.50	11	8	12	.33
July	.89	6	6	8/9	.56
Aug.	.42	6	4	15	.13
Sep.	2.23	7	6	23/24	1.60
Oct.	3.45	17	14	10	.72
Nov.	2.40	16	12	15	.56
Dec.	.61	9	8	14	.20
Total	23.20	130	109		

Month.	Bright Sunshine.		Pressure at Mean Sea Level.					
	Daily Mean. 1933.	Per-centage.	Absolute.					
			Highest.	Date.	Time.	Lowest.	Date.	Time.
	hr.	%	mb.			mb.		
Jan.	1.02	19	1042.6	24th	9 a.m.	993.9	2nd	9 p.m.
Feb.	2.26	23	1038.3	11th	9 p.m.	988.7	1st	9 a.m.
Mar.	4.37	23	1030.3	27th	9 a.m.	982.2	19th	9 p.m.
Apr.	3.35	29	1033.9	14th	9 a.m.	1005.8	29th	9 p.m.
May	3.80	20	1024.7	18th	9 a.m.	998.9	7th	9 a.m.
June	7.82	34	1027.1	9th	9 a.m.	987.7	18th	9 p.m.
July	6.99	20	1039.0	3rd	9 p.m.	994.5	13th	9 p.m.
Aug.	6.59	28	1027.9	2nd	9 p.m.	1000.5	15th	9 p.m.
Sept.	4.99	36	1033.0	10th	9 p.m.	1000.4	24th	9 a.m.
Oct.	2.20	23	1032.1	2nd	9 p.m.	981.9	28th	9 a.m.
Nov.	1.22	11	1025.4	7th	9 p.m.	993.5	15th	9 a.m.
Dec.	0.67	14	1041.6	3rd	9 a.m.	989.2	28th	9 a.m.
Year.	45.28 3.77	24	1042.6	Jan. 24th	9 a.m.	981.9	Oct. 28th	9 a.m.

ADDITIONS TO THE MUSEUM  
DURING 1933.

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- ANDERSON, MRS.—Two Pictures, one worked by Elizabeth Thompson (aged 13), and one by Lydia Thompson (aged 12), in the year 1830.
- ANDERSON, MRS.—Daguerreotype Photograph; Piece of stained glass from Byland Abbey.
- ASKEW, GILBERT, F.S.A., SCOT.—Sestertius of Antoninus Pius.
- AUDEN, G. A., M.D., M.A., ETC.—19 Flint flakes from Fulford.
- BECKETT, GEORGE.—Curious stone found at Shipton.
- BRADSHAW, F.—Macclesfield Half-penny.
- BROWNE, THE REV. A. B.—Derringer.
- BURDEKIN, J. L.—Two leather Saddlebags.
- CHARLTON, MRS. S. A.—Brace of Pistols which once belonged to the Pretender—Prince Charles Edward; Iron Whip found in a drain on Marston Moor about 1810.
- CHAPMAN, MISS.—Ten pieces of Nelson china.
- COCKERELL, MRS.—Child's glass and pewter Feeding Bottle.
- ELLIOT, DR. W. T., F.L.S., F.Z.S.—24 examples of Mycetoza.
- ELMHIRST, CHAS. E., J.P.—Badger in flesh.
- FOGGITT, THOS. J., J.P.—24 Herbarium specimens of British Plants.
- FRANKS, S. R. B.—Leaden Fire Insurance Plate.
- FRASER, J. HORATIO.—Head and fore limbs of *Ichthyosaurus communis* from Lyme Regis; part of jaw of same; 2 vertebrae of *Plesiosaurus*; Fish spine.
- GOODALL, H.—Egg of Ostrich.
- GRAY, MRS. EDWIN.—Farthing Token of Middleham, Yorks., 1666, and sundry Indian Coins and Abbey Tokens.
- HALL, G. C.—Commemorative Book Marker, 1866.
- HAMMOND, MISS.—Old Copper Pan.
- HAWKE, THE RT. HON. LORD.—Model of Boat landing troops; Sea-chest and Cash Box; Head of Indian Lion from Gir Forest, State of Junagadh, March, 1906.
- HAWORTH, MRS.—Hand-made Rug, c. 1800.

- KERR, PROF. GRAHAM, F.R.S.—Cast of fang of *Bothrodon pridii*, Kerr.
- LONG, H. W. FORTESCUE, B.Sc.—Engraving of York, 1817.
- MACKAY, ALAN H.—White Jay, shot at Wheldrake.
- METCALFE, MISS M. DAY.—2 Silver Coins of King Peter of Serbia.
- MOODY, DR.—Old Razor.
- MORGAN, F. C.—Series of Fossils from Skipton.
- OGDEN, JAMES R., J.P., F.S.A.—Silver Medal of the York Agricultural Society, 1780.
- PARKIN, SAM.—Iguano.
- PEARSON, MISS H. J.—Roman Coin.
- RUDGARD, H. J.—Old English Cross-bow.
- SMITH, SYDNEY H.—Pair of Old Tongs ; Nest of Nightingale.
- ST. QUINTIN, the late W. H.—Three Cabinets of Lepidoptera, etc.
- STATHER, J. A. W., F.G.S.—Collection of Glacial erratics from Brayton Barff, near Selby.
- TAYLOR, CAPT. H. A.—Four faked carved stones from gravel pit near Thirsk.
- UNDERWOOD, MRS.—Carved wooden god.
- VICTORIA AND ALBERT MUSEUM (Trustees of).—Linthorpe Vase.
- WATSON, C.—Medal of Queen Caroline.
- WHEELER, G. OWEN.—Three old news sheets ; Certificate of Rent Charge ; Sample of Service Tartan used by the rank and file of Highlanders in the '45.
- WILSON, the late MISS EMILY.—Dutch Plaque.

#### ON LOAN.

- H.M. POSTMASTER GENERAL.—Fragments of Roman Pottery from Clifton.
- HAWKE, THE RT. HON. LORD.—Model, in mahogany and glass case, of H.M.S. Berwick.
- THOMSON, LADY.—Road Measuring Wheel.
- TRIFFITT, J.—Two Roman Bronze Statuettes and British Bronze Mace Head ; Roman Bronze Plaque.

ADDITIONS TO THE LIBRARY  
DURING 1933.

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ARKELL, W. J., M.A., B.Sc., D.PHIL. (author).—"The Corallian Lamellibranchia," part v.

ASHMOLEAN MUSEUM.—Report of the Visitors for 1932.

ASHMOLEAN NATURAL HISTORY SOCIETY OF OXFORDSHIRE.—Proceedings and Report for 1932.

AUCKLAND INSTITUTE AND MUSEUM, N.Z.—Annual Report, 1932-33; Records of the Auckland Institute and Museum, Vol. i, no. 4; Guide to the Exhibition of Early Chinese Ceramics (Auckland War Memorial Museum), 7th to 28th July, 1933.

AUSTRALIAN MUSEUM.—Annual Report for the year ended 30th June, 1932.

AUSTRALIAN AND NEW ZEALAND ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.—Report of the 21st Meeting (Sydney, August, 1932).

BELFAST NATURAL HISTORY AND PHILOSOPHICAL SOCIETY.—Proceedings and Reports, Session 1931-1932.

BILHAM, E. G., B.Sc., D.I.C. (author).—"Variations in the Climate of York during the Sixty Years 1871-1930 and comparison with Oxford.

BOSTON, MASS., U.S.A.—Bulletin of the Society for the Preservation of New England Antiquities ("Old-time New England"), Vol. xxii, no. 2; xxiii, nos. 3, 4; xxiv, nos. 1, 2.

BRIGHTON AND HOVE NATURAL HISTORY AND PHILOSOPHICAL SOCIETY.—Annual Report for year ending 30th June, 1933.

BRISTOL NATURALISTS' SOCIETY.—Annual Report and Proceedings, 4th Series, vol. vii, part v (1932).

CAHILL, R. S.—Journal of the Chemical Society, January—December, 1933; British Chemical Abstracts, January—December, 1933.

CALIFORNIA, STATE OF.—Monthly Bulletin of the Department of Agriculture, vol. xxi, nos. 10-12; xxii, nos. 1-6.

- CALIFORNIA.—University of California Publications.—Bulletin of the Department of Geological Sciences.—Vol. xxi, no. 8 (pp. 195-385); xxii, no. 3 (pp. 31-410); xxiii, nos. 1 (pp. 1-56), 2 (pp. 57-80), 3 (pp. 81-174), 6 (pp. 195-214).
- CANADA, DEPARTMENT OF MINES.—Report for year ending 31st March, 1932; Annual Report of National Museum of Canada for 1931.
- CARDIFF, NATIONAL MUSEUM OF WALES.—25th Annual Report (1931-32); "Wales and the Past—Two Voices" (By Prof. J. E. Lloyd, M.A., D.Litt., F.B.A., F.S.A.); 26th Annual Report, (1932-33).
- CLEVELAND NATURALISTS' FIELD CLUB.—Proceedings, vol. iv., parts 1 and 2.
- COLCHESTER AND ESSEX MUSEUM.—Annual Report, 1932.
- DUBLIN, NATIONAL MUSEUM OF IRELAND.—Reports for 1930-31; 1931-32.
- EDINBURGH, ROYAL SOCIETY OF.—Proceedings, vol. lii, part 5; liii, parts 1-3; Transactions, vol. lvii, part 2.
- FARQUHAR, MISS HELEN, F.R.HIST.SOC.—Royal Charities (Second Series), part v and Index.
- GLASGOW NATURALIST, THE.—Vol. xi.
- GLOUCESTER, PUBLIC MUSEUM.—Occasional Papers, no. 1 (Catalogue of Potters' Stamps on Terra Sigillata found in Gloucester (By Charles Green)).
- GREENWOOD, J.—"Nineveh and its Remains" (Layard), vols. i and ii (1849); "Illustrated History of the British Empire in India" (Nolan), vols. i and ii.
- HAWAIIAN VOLCANO OBSERVATORY.—The Volcano Letter, nos. 392-402.
- HORTICULTURAL SOCIETY, THE ROYAL.—Journal, vol. lviii, part 1.
- HULL MUSEUM.—Publications, nos. 178-181.
- HURST, ARTHUR, A.K.C.—"The Archaeology of Cornwall and Scilly" (By H. O'Neill Hencken).
- ILLINOIS, STATE GEOLOGICAL SURVEY.—Report of Investigations, nos. 26-28.
- INDIA (Calcutta), GEOLOGICAL SURVEY OF INDIA.—Records, vol. lxvi, parts 2, 3, 4; lxvii, parts 1, 3; Memoirs, vol. lv, part 2; lxii, part 2; lxiii, part 1; lxiv, part 1; Memoirs (Palaeontologia Indica) New Series, vol. xxi (mem. no. 1).



JAPAN, NATIONAL RESEARCH COUNCIL OF.—Japanese Journal of Zoology.—Vol. iv, nos. 4, 5 ; v, nos. 1, 2.

JAPAN (Tokyo).—Tokyo Science Museum, General Guide (1933).

JOHNSTONE, MARY A., B.Sc., F.L.S. (authoress).—"The Etruscan Collection in the Public Museum of Liverpool." (Reprinted from "Studi Etruschi," vol. vi, 1932) ; "The Etruscan Collection in the Free Public Museums of Liverpool." (Reprinted from "The Annals of Archaeology and Anthropology," vol. xix, nos. 3-4).

LEEDS PHILOSOPHICAL AND LITERARY SOCIETY.—Proceedings, Literary and Historical Section, vol. iii, parts 1, 2 ; Scientific Section, vol. ii, parts 8, 9, 10.

LEEDS, UNIVERSITY OF.—28th Report (1931-32) ; Publications and Abstracts of Theses by Members of the University during Session 1931-32.

LEICESTER LITERARY AND PHILOSOPHICAL SOCIETY.—Transactions, vol. xxxiv (1932-33).

LEICESTER MUSEUM, ART GALLERY AND LIBRARY.—Bulletin (Quarterly)—nos. 35-38 ; 29th Report (Museum and Art Gallery), 1932-33 ; "What to see in the Leicester Museum and Art Gallery."

LONDON, BRITISH MUSEUM (Natural History).—Index animalium (Sherborn), parts xxvii-xxxiii ; Catalogue of the Rock Collections in the British Museum (Natural History), part ii (America) ; Economic Series, no. 14—Clothes Moths and House Moths (By Major E. E. Austen, D.S.O. and A. W. McKenny Hughes, D.I.C.) ; Fossil Insects, no. 3.—The Panorpoid Complex in the British Rhaetic and Lias. (By R. J. Tillyard, Sc.D.).

— GEOLOGICAL SOCIETY OF.—Quarterly Journal, vol. lxxxix, parts 1-4 ; Geological Literature added to the Geological Society's Library during 1932.

— H.M. STATIONERY OFFICE.—Quarterly Return of Marriages, Births and Deaths, nos. 336-339.

— METEOROLOGICAL OFFICE.—Monthly Weather Reports, Supplements, etc., etc.

— THE NATIONAL CENTRAL LIBRARY.—17th Annual Report (1932-33).

— ZOOLOGICAL SOCIETY.—Proceedings, part iv, 1932 ; parts i-iii, 1933.

MADISON (Wisconsin), U.S.A.—WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS.—Transactions, vol. xxvii, xxviii.

MANCHESTER, JOHN RYLANDS LIBRARY.—Bulletin, vol. xvii, nos. 1, 2.

— LITERARY AND PHILOSOPHICAL SOCIETY.—Memoirs and Proceedings, vol. 76.

— MUSEUM.—Publication no. 103.

MEXICO.—OBSERVATORIO ASTRONOMICO NACIONAL DE TACUBAYA.—Anuario (for 1933)—Año liii; (for 1934)—Año liv.

MIDDLESBROUGH, DORMAN MEMORIAL AND STEWART PARK MUSEUMS.—Annual Report for year ending March 31st, 1933.

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