

21 MAR 1839

Yorkshire Philosophical Society.

A N N U A L R E P O R T

FOR

M D C C C X L I I I .



A N N U A L R E P O R T

OF THE COUNCIL

OF THE

YORKSHIRE

PHILOSOPHICAL SOCIETY

FOR

M D C C C X L I I I .

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 6, 1844.

YORK:

RICHARD BURDEKIN, 16, HIGH-OUSEGATE.

1844.

TRUSTEES
OF
THE YORKSHIRE MUSEUM,

APPOINTED BY THE ROYAL GRANT.

HIS GRACE, EDWARD, LORD ARCHBISHOP OF
YORK.

GEORGE, EARL OF CARLISLE, K.G.

CHARLES WILLIAM, EARL FITZWILLIAM, F.R.S.,
F.S.A.

THOMAS PHILIP, EARL DE GREY.

HON. AND VERY REV. HENRY HOWARD, D.D.,
DEAN OF LICHFIELD.

SIR WILLIAM LAWSON, BART., F.S.A.

FRANCIS CHOLMELEY, ESQ., F.S.A.

ROBERT DENISON, ESQ.

REV. WILLIAM VERNON HARCOURT, F.R.S.

WILLIAM HATFEILD, ESQ., F.G.S.

RICHARD JOHN THOMPSON, ESQ.

PATRONESSES

OF

The Yorkshire Philosophical Society.

HER MAJESTY THE QUEEN.

HER ROYAL HIGHNESS THE DUCHESS OF KENT.

PATRONS.

HIS GRACE THE ARCHBISHOP OF YORK.

EARL OF CARLISLE, K.G.

EARL FITZWILLIAM, F.R.S.

EARL OF TYRCONNEL, F.R.S.

THE VISCOUNT MORPETH.

THE LORD STOURTON.

THE LORD WHARNCLIFFE.

THE LORD FEVERSHAM.

THE LORD WENLOCK.

OFFICERS OF THE SOCIETY, 1844.

PRESIDENT:

EARL FITZWILLIAM, F.R.S.

VICE-PRESIDENTS:

REV. STEPHEN CREYKE.

REV. THOMAS EGERTON, F.G.S.

CHARLES HENEAGE ELSLEY.

REV. WM. VERNON HARCOURT, F.R.S.

WILLIAM HATFIELD, F.G.S.

SIR J. V. B. JOHNSTONE, BART, M.P.

JOHN HENRY LOWTHER, M.P.

REV. CHARLES WELLBELOVED.

TREASURER:

ROBERT DAVIES, F.S.A.

COUNCIL:

Elected 1841....REV. WILLIAM HEY.

Elected 1842....JAMES ALLEN,

JOHN PHILLIPS, F.R.S., F.G.S.

HENRY ROBINSON,

WILLIAM WHYTEHEAD.

Elected 1843....JAMES BARBER,

CAPTAIN BENTHAM,

REV. JOHN KENRICK.

Elected 1844....REV. W. B. COOKE,

GEORGE GOLDIE, M.D.

WILLIAM GRAY, JUN.

THOMAS HENRY TRAVIS.

SECRETARY:

THOMAS MEYNELL, JUN, F.L.S.

CURATORS.

NATURAL HISTORY DEPARTMENT:

GEOLOGY	..	..	J. PHILLIPS, F.R.S., F.G.S.
MINERALOGY	..	..	W. HATFIELD, F.G.S.
ZOOLOGY—VERTEBRATA	..	..	REV. WILLIAM HEY.
ANNULOSA	..	..	T. MEYNELL, JUN. F.L.S.
MOLLUSCA AND ZOOPHYTA	} }	*	
COMPARATIVE ANATOMY	..	..	THOMAS ALLIS.
BOTANY	..	..	OSWALD ALLEN MOORE.

ANTIQUITIES	..	..	REV. C. WELLBELOVED.
LIBRARY and MSS.	..	..
LABORATORY	..	..	T. H. BARKER.
OBSERVATORY	..	..	W. L. NEWMAN, F.R.Ast.S.
METEOROLOGICAL INSTRUM.	..	..	JOHN FORD.

SUB-CURATOR OF THE MUSEUM:

HENRY BAINES.

* Those departments for which no Curators are specially named, are considered to be under the direction of the Secretary and the Curator.

YORKSHIRE PHILOSOPHICAL SOCIETY.

REPORT OF THE COUNCIL

TO THE

ANNUAL MEETING OF THE SOCIETY, ON THE 6th OF FEBRUARY, 1844.

THE Council, acting under the direction of the last Annual Meeting, repeated the invitation from the Yorkshire Philosophical Society to the British Association for the Advancement of Science, when assembled at Cork, to hold its next Meeting in this City; and they have great pleasure in announcing that the invitation was accepted, and that the Society will, in September next, again have the honour of witnessing, within the City of York, the assembling of that learned body. This event, so earnestly desired by the Council, must necessarily have a most beneficial influence on this Society, by stimulating its members to renewed exertion, and thus raising it to a still more elevated position in the scale of science and utility.

To render the Museum as attractive as possible, and interesting to the numerous scientific visitors who may be expected to attend the meeting, the Council have considered it highly important to complete, as far as possible, the arrangement of the different Collections previous to the month of September. For this purpose, several alterations in the interior of the Museum have become necessary, more particularly the re-opening the communication between the Library and the late Mineralogical Room, and the completing the side cases in that Room, for the reception of the splendid Collection of Comparative Osteology, which is at present so imperfectly exhibited. It has also been determined to place drawers underneath the new centre cases in the Geological Room, for the arrangement of the Foreign and British Rock Specimens, which will thus be easily referred to; and to fit up the spare Room

in the upper part of the building, for displaying to more advantage the numerous Roman Antiquities connected with the ancient history of the City of York,

These alterations, however, could not be undertaken without incurring considerable expense, but the Council did not hesitate to enter upon them. The most rigid economy having been exercised for the last few years, a great reduction has taken place in the amount of the Society's debt, and there is now a considerable surplus in the ordinary annual receipts over the expenditure, which may be applied to the purpose of these improvements.

It will likewise be advisable for the Council to purchase a certain number of Specimens, in order to complete some of the most interesting groups, and supply several vacancies, which it is not probable the Society can otherwise fill up.

It could not be expected that, with the limited funds at its disposal, the Society could undertake to defray the heavy expenses which will be incurred in receiving the British Association. The Council, therefore, prepared a circular letter, which they addressed to the principal gentlemen in the county, soliciting contributions for that purpose; and they are happy to state that the amount already received renders it certain that no loss will be sustained by the Society. The appeal which the Council has made to the County of York, has indeed been every where most favourably received, and they cannot allow this opportunity to pass without returning their thanks to their numerous friends, who have so generously come forward to their support, at a time when so many calls of a more pressing nature are being made upon them.

An Act was passed during the last Session of Parliament, to exempt Scientific Societies from the payment of all local rates. This Act came into operation in October last, and the Council lost no time in taking the necessary steps to enable the Society to avail itself of this exemption. The Society will therefore in future be relieved from the payment of a tax which has pressed very heavily upon it, amounting to a sum little short of £30. per annum, or nearly 5 per cent. upon its ordinary annual income.

In presenting a statement of the accounts of the Society for the past year, the Council have little to remark. The receipts are almost entirely confined to the usual sources of income, and the

ordinary expenditure has been somewhat increased by certain repairs which it has been found necessary to effect. Seventy-five pounds have been expended in extra works; and a donation of £10. has been made towards presenting a testimonial to Mr. A. Ryland, of Birmingham, for his services in obtaining the Act of Parliament before mentioned. Notwithstanding this extra expense, the balance against the Society at its bankers has been further reduced to a small extent, and now amounts to the sum of £1064. 16s. 2d.

Whilst on the subject of finance, the Council cannot refrain from adverting to the splendid bequest which has been made to the Society by their late esteemed Vice-President, Dr. Beckwith. This Princely Legacy, which in conjunction with his other liberal bequests will render the name of Dr. Beckwith revered as the greatest benefactor to the charities and public institutions of the City of York, will go far towards relieving the Society from those difficulties under which it has laboured ever since its first formation; although in accordance with a stipulation in the will, the legacy is not to be applied to the payment of any part of the heavy debt of the Society. At the special request of Dr. Beckwith, the income arising from this legacy is, in the first place, to be expended in building a house upon the Society's property, as a residence for the Sub-Curator. This outlay is very desirable, as the rooms at present occupied by him are from their situation extremely damp and unhealthy; and the Council have only been deterred from undertaking it hitherto, by the expense which a suitable building would entail. It will be hereafter the duty of the Council, in the appropriation of this increase of income, to render the Museum and Gardens as interesting as possible to the members and the public.

The money received for tickets of admission to the Gardens and Museum during the past twelve months, has not been quite equal to the amount of the previous year; but the small deficiency is less than might have been expected, considering the unprecedented depression under which the trade of the country has of late laboured.

On Whit-Monday and Tuesday, the Gardens and Museum were as usual, thrown open to the Public, and visited by a large concourse of persons. The Officers and Privates of the Yorkshire Hussars were likewise permitted to have free access to the Museum, during the period of their service in York.

Much inconvenience has at times been experienced by the Council from not having the power to admit persons during their temporary residence in the City, to the Garden and Museum, on the payment of a reasonable sum for the privilege thus granted. The Council have therefore agreed to submit a resolution to the meeting, to authorize them to admit such residents as temporary subscribers.

The Horticultural Fête was held on the 26th of August, on which occasion the display of Fruit and Flowers was superior to that of any former exhibition.

The Council have deemed it expedient to add to the Gardens the ground lying immediately below the Observatory; and they hope that thus a suitable situation may be found for a scientific arrangement of Plants, which has long been wanted.

In the Geological department, the Collections have been increased by a few purchases, and some interesting donations; but the attention of the Council has been called by Professor Phillips, to the advantage which would arise from enlarging this part of the Museum, by the addition of *one* complete series of all the species of Invertebral Fossil remains, yet discovered in Yorkshire. For the purpose of this new arrangement, the long table-case in which the Minerals have recently been placed, has been surmounted by stages under glass. To furnish any great proportion of the large number of select specimens proper for the systematic arrangement of the Invertebral Fossils, the present Collections are inadequate, as they contain but few choice duplicates; but by application to several friends of the Society, resident on the coast, and by purchases to a moderate extent, upon a regular plan, the Council hope to make good progress in this undertaking, previous to the meeting of the British Association.

The Collection of Minerals has been entirely re-arranged in the new cases in the Geological Room, and enriched by a splendid donation from the late Dr. Beckwith, including not only many specimens not previously possessed by the Society, but also a Collection of Gems, of such intrinsic value, as has seldom been received at one time by any similar public Institution.

To the Collection of Vertebrated Animals, fifty-three birds from Trinidad, in beautiful condition, have been added by Wm. Hatfeild, Esq.; and Mr. James Backhouse has presented several Lizards and

Snakes, from Australia. A competent person has been employed to set up the numerous skins of Foreign Birds in the possession of the Society, previous to a complete new arrangement of the whole.

The additions to the collection of Comparative Osteology consist of twenty-nine skeletons of Foreign Mammalia, presented by Mr. Allis, the Curator; which, added to the valuable series previously in the possession of the Society, will make this collection, under the new arrangement, one of the most interesting in the Museum.

The Curator of British Botany has completed the Classification of the Herbarium, commenced by his predecessor, the Rev. W. Hincks, so far as regards the flowering Plants, and is proceeding with the Ferns. This collection is now in admirable order, and from the mode of its arrangement may be at any time conveniently referred to.

In return for some assistance in his enquiries relating to the Saxon Coinage, obtained from the cabinet of the Society by Mr. D. H. Haigh, of Leeds, that gentleman has presented to the Society upwards of one hundred and twenty Silver Coins, comprising several of the Visigoth Kings, some of the Saxon period, and many belonging to the English Series. More than one hundred and fifty English Coins, chiefly modern, in Gold, Silver, and Copper, were likewise presented by the late Dr. Beckwith, not long before his death; and some beautiful impressions of Foreign Seals have been received from Edward Hailstone, Esq., of Bradford. Mr. R. Ready, of Leeds, having been allowed the use of the Matrices of the Ancient Seals in the possession of the Society, has in return presented a considerable number of casts of other Seals, principally connected with religious and other institutions of Yorkshire.

The Northumbrian Stycas mentioned in the last Report as part of a hoard recently discovered in York, have been purchased, partly by the proceeds of three Lectures on the state of York under the Anglo-Saxons, delivered by the Curator of Antiquities in the Theatre of the Museum, and partly by voluntary Subscriptions; and they now form an interesting and very instructive portion of the Cabinet of Coins belonging to the Society.

The Roman and other Antiquities have been for the most part removed to the room now appropriated for them, and are at present under arrangement by the Curator.

Among the Donations to the Library, the Council have to notice with peculiar satisfaction, a valuable work, by the Society's highly respected Treasurer, Robert Davies, Esq., whose "*Extracts from the Municipal Records of the City of York,*" to which his official connection with the Corporation afforded him a ready access, accompanied with many curious "*illustrative and explanatory notes,*" have thrown much light on the history of York during that portion of the 15th Century which comprised the reigns of the three last kings of the Plantagenet race. The valuable Transactions of the various Scientific Societies continue to be received as usual. The Council hope that, by some changes which they propose to make during the present year, the Library will be rendered more available to the purposes for which it was intended.

The Laboratory continues in the same active service as usual. The regular course of Lectures to the Pupils of the York School of Medicine is in course of delivery; and the Laboratory is well stocked with the requisites for general purposes. Some slight alterations will however be necessary previous to the meeting of the British Association.

Though the usual Astronomical Observations have been continued at the Observatory, the great want of proper instruments has prevented the Curator from remarking many interesting celestial phenomena, which have occurred during the past year. He has recently commenced a course of Lectures on Astronomy, by the proceeds of which he hopes, in part, to supply this deficiency; and the Council trust, ere long, to be able to make a grant for the same object.

The Curator of Meteorological Instruments has continued the Horary Observations at the Equinoxes and Solstices, which were commenced in 1842; and they have been regularly forwarded to the zealous and indefatigable M. Quetelet, of the Royal Academy of Brussels, and acknowledged by him.

The following are the results of these observations for the past year.

Vernal Equinox, Mean of 24 Obs,	49°	occurring bet. 8 and 9 A.M. and 7 & 8 P.M.
Summer Solstice	24 56.8°	7 and 8 A.M. and 7 & 8 P.M.
Autumnal Equinox	24 57.9°	7 and 8 A.M. and 7 & 8 P.M.
Winter Solstice	24 42.8°	10 and 11 A.M. and 3 & 4 P.M.

Period of Maximum and Minimum Mercurial Column.

Vernal Equinox maximum 11 A.M. minimum 3 P.M.
 Summer Solstice 6 A.M. 4 P.M.
 Autumnal Equinox steadily ascending through the 24 hours.
 Winter Solstice 8 P.M. 6 A.M.

The Register of Meteorological Phenomena at York is given in the subjoined Table.

METEOROLOGICAL REGISTER—YORK, 1843.

	Barometer.			Rain. Inches.	Thermometer.					Nights below 32°	Days of Rain or Snow, more or less	
	Mean.	Highest.	Lowest.		Mean Maximum.	Mean Minimum.	Mean Temperature.	Highest.	Lowest.			
Jan.	29.600	30.40	27.99	1.02	41.5	32.7	37.1	53	20	15	14	Westerly.
Feb.	29.648	30.18	29.16	2.65	37.8	30.0	33.9	49	12	18	14	Northerly.
March	29.929	30.40	29.38	0.89	47.2	33.6	40.4	60	25	12	11	Southerly and Easterly.
April	29.746	30.23	29.40	2.23	54.5	37.5	46	65	26	6	20	Southerly.
May	29.890	30.40	29.48	2.81	57.2	40.7	49	64	32	1	17	Easterly.
June	29.937	30.25	29.19	1.86	62.2	46.2	54.2	72	41	0	11	N. Easterly.
July	29.950	30.30	29.42	2.67	67	50.4	58.7	78	41	0	16	Westerly.
Aug.	30.015	30.37	29.48	4.09	67.8	50	58.9	77	41	0	10	South and West.
Sept.	30.268	30.671	29.80	0.42	66.5	48.3	57.4	75	39	0	8	Various.
Oct.	29.730	30.415	28.80	4.59	51.7	39.0	45.3	66	26	10	20	N. and Westerly.
Nov.	29.849	30.40	29.15	2.21	46.7	35.7	41.2	54	29	12	21	S. and Westerly.
Dec.	30.353	30.60	29.60	0.22	48.3	38.1	43.3	56	28	8	7	South Westerly.
	29.909			25.66			47.1 ¹ / ₁₆			82	169	

Total Rain. Mean annual Temperature.

COMPARATIVE PREVALENCE OF WINDS.

N.	S.	E.	W.	N.E.	N.W.	S.E.	S.W.
37	46	25	76	42	38.	29	72
							.... 365

The Temperature of the Year 1843 was, within a small fraction, the same as that of 1842, and $\frac{1}{16}$ of a degree below the average of the preceding ten years. The mean height of the mercurial column

was equal to the annual average. The quantity of rain was above the mean. One-third of the rain, viz., 8.68 inches, fell in August and October. Only .22 inch of rain fell during the month of December, being less than has been registered for that month during the last 14 years.

The Curator of this department has likewise paid some attention to the coincidence of Barometrical and Lunar Phenomena. The following table will exhibit a few results of these observations; they seem to point to a field of labour not altogether unpromising.

Observations made at the Apogee and Perigee of the Moon, 1843.

APOGEE.					
		Wind.	Bar.		
Jan. 7	4 afternoon	S.	29.24	Much rain . . . .	.21 in.
Feb. 3	11 evening	N.	29.21	Snow and rain	.51 in.
March 3	11 morning	N.W.	30.10	Snow . . . . .	.08 in.
— 30	2 afternoon	S.E.	29.48	Rain . . . . .	.11 in.
April 26	9 evening	S.W.	29.64	Much rain ..	.47 in.
May 24	10 morning	E.to S.W.	29.76	Much rain . . . .	.62 in.*
June 21	4 morning	W.	30.11	Fair	
July 18	10 evening	W.	29.83	Much rain	
Aug. 15	5 evening	W.	30.07	Thunder storm	2.01 in.
Sept. 12	7 morning	N.E.	30.40	Very fair	
Oct. 9	4 afternoon	N.W.	29.80	. . . . .
Nov. 5	7 evening	N.	30.07	. . . . .	.29 in.
Dec. 3	3 morning	N.E.	30.37	Fair.	
— 30	8 evening	S.W.	30.14	Rain . . . . .	.12 in.
PERIGEE.					
		Wind.	Bar.		
Jan. 18	9 evening	S.W.	30.40		
Feb. 16	1 afternoon	N.W.	29.63	Minimum temp. 12°	
Mar. 16	noon	N.E.	30.01	Wind changed to S.W.	
April 13	11 evening	N.W.	30.00	Snow storm . . . .	.24 in.
May 12	6 morning	S.W.	30.20	Fair.	
June 9	5 morning	W.	29.19	{ Thunder storm	.31 in.
				{ High wind.	
July 5	2 afternoon	W.	29.83	Tremendous thund. storm.	
— 30	11 evening	W.	29.60	Fair.	
Aug. 27	3 afternoon	S.W.	30.20	Thunder storm 26th	.19 in.
Sept. 24	9 evening	N.W.	30.49	Very high tide 25th.	
Oct. 23	8 morning	W.	30.00	Much wind . . . .	.17 in.
Nov. 20	8 evening	W.	29.15	Much rain . . . .	.29 in.
Dec. 19	2 morning	S.W.	30.50	Fair.	

* On the 4th of May, exactly midway between the Apogee and Perigee, a thunder storm occurred between noon and 3 P.M. With this, and one more

Meteorological Observations have been received from a few Correspondents, and from these it appears that the quantity of rain which fell

At Huggate, was	28.316 in.
At Middleton, near Beverley ..	24.140
At Ackworth	26.250
At Settle	45.920

The Council cannot conclude their Report without again congratulating the Society on the bright prospect which is opening before it. The exertions of its members in the promotion of scientific research, stimulated by the approaching meeting of the British Association, and aided by the great increase of income which will be derived from the investment of the whole or greater part of the Legacy bequeathed to it, by Dr. Beckwith, and the extension and improvement of the Museum and Gardens, which the ampler means at its disposal will enable the Council to effect, will, they are persuaded, at no distant day elevate this Society to a rank seldom attained by any similar Provincial Institution, and render it worthy the great County in which it is established.

similar exception in August, every thunder storm observed at York during the year, was either exactly coincident with these positions of the Moon, or within 24 hours of their occurrence. Of these, the most remarkable for its violence happened on the 5th of July, and extended from Scarborough in the N.E. to Bristol in the S.W. Out of 27 recurrences of Apogee and Perigee, 19 were marked by change or crisis.

ANALYSIS OF DISBURSEMENTS

DURING THE YEAR 1843.

ORDINARY EXPENSES.

Rents, Rates, &c. :	£.	s.	d.	£.	s.	d.
Rent to the Crown	1	0	1			
Rent to the Corporation	6	8	8			
Poor Rates, Highway Rates, Land and Property Tax	34	13	11½			
Insurance and Water Rent	11	0	0			
	<hr/>			53	2	8½
Salaries and Wages :						
Sub-Curator	100	0	0			
Servant	20	0	0			
Lodgekeeper	11	13	6			
Labourer	36	8	0			
Collector	10	0	0			
Occasional Labourers	19	13	0			
	<hr/>			197	14	6
Interest on Debt :						
Interest on Mortgage Debt	97	1	8			
Interest on £1000	38	16	8			
Interest to Bankers for being overdrawn	40	19	0			
	<hr/>			176	17	4
Museum, Gardens, Grounds, &c. :						
Painting and General Repairs	111	6	3			
Purchase and Preparation of Specimens	14	6	1			
Observatory	3	5	0			
	<hr/>			128	17	4
Library :						
Books and Binding	16	18	2			
	<hr/>			16	18	2
Incidentals :						
Printing, Advertising, and Stationery	22	17	1			
Coals, Gas Light, and Coke	35	2	6			
Postages, Carriage, and Sundries	14	19	6½			
	<hr/>			72	19	1½
				<hr/>		
				646	9	2

EXTRAORDINARY EXPENSES.

Mr. Arthur Ryland	10	0	0			
New Cases	65	5	0			
Fitting up the Antiquarian Room	8	0	0			
	<hr/>			83	5	0
				<hr/>		
				729	14	2
				<hr/>		

SUBSCRIBING MEMBERS
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY,
ELECTED IN 1843--4.

1843.

Major Brown, *York*.
Edward Hailstone, *Horton Hall*.
Rev. John Robinson, *Clifton*.

1844.

James Anderton, *York*.
John Bownas Atkinson, *York*.
Joseph Hick, *York*.
John Holtby, *York*.
George Leeman, *York*.
William Taylor, *York*.

HONORARY MEMBERS ELECTED IN 1843.

Joseph Clarke, *Cincinnati, U. S.*
Thomas Weaver, *F.G.S. London*.

RESOLUTIONS

PASSED AT THE ANNUAL MEETING, FEBRUARY 6, 1844.

1. That the Report of the Council be adopted and printed for the use of the Members.
2. That the Thanks of the Society be given to the Vice-Presidents and Members of the Council retiring from office.
3. That the Thanks of the Society be given to the Treasurer and Secretary for their valuable services.
4. That the Thanks of the Society be given to the Curators for their diligent and useful services in the several departments of the Museum.
5. That the Council be empowered, on certain days, to be selected by them, during the present year, to permit free admission to the Museum and Gardens to all persons; the mode of admission to be regulated by the Council.
6. That the Regulations adopted at the last eight Annual Meetings, for the admission of Strangers by the purchase of Tickets, be continued for the present year.
7. That the Council be authorized to admit to the Museum and Gardens, as temporary subscribers, any occasional visitors to York, not residing in the County, at the rate of *one* Pound for *four* months for themselves and their families; but that in no case shall such privilege be granted for a longer period than twelve months.
8. That the Resolution of the last Annual Meeting, empowering the Council to authorize the holding one or more Horticultural Meetings in the Society's Gardens, be continued in force during the present year.
9. That the best Thanks of the Society be given to the Chairman and Committee of Management of the Horticultural Fête held in August last.

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

Mr. James Backhouse.....	Miscellaneous specimens from Van Dieman's Land
Rev. D. R. Curren	Specimens of <i>Zamia</i> , found nine miles to the north of Whitby.
J. Dalton, Esq.	Various specimens of fossils.
Mr R. Dalton.	A large specimen of Ammonite.
W. Hatfeild, Esq.	Fossils from Barbadoes. Fossils from Ferriters Cove, County of Kerry.
Mr. Maclauchlan, (<i>Ordnance Survey</i>)	Fossils from the millstone grit near Brimham Crag.
Rev. F. O. Morris	Polished scales of <i>Tetragonolepis</i> (Agassiz). Fossil horn of a stag. Lamina of tusk of a fossil elephant. Fossil tooth of a shark. 9 specimens of Ammonites.
Professor Phillips	Posidonia from Devonshire. Trilobite (<i>Asaphus Buchii</i>) from Llandeilo, South Wales.
Purchased	Fossil head of <i>Lepidotus</i> .

MINERALOGY.

Dr. Beckwith	Large and valuable Collection of Minerals, late the property of Francis Beckwith, Esq., including 442 specimens of gems, and a fine specimen of <i>Lumachelli</i> .
F. J. Copsie, Esq.	Carbonate of copper.
J. Dalton, Esq.	Various specimens of minerals.

- W. Hatfeild, Esq. Bitumen from the Pitch Lake of Trinidad.
Ditto from near the Havanna.
- Miss Norcliffe Specimen of the ashes which overwhelmed
Pompeii.

ZOOLOGY.

VERTEBRATA.

- S. Barber, Esq. A variety of the fieldfare.
- James Backhouse, Esq. Brown Snake from Sidney.
The Rough Lizard from ditto.
Native cats, taken from the pouch of their dam,
from Port Jackson.
Eggs of the beaded lizard, from ditto.
Flat-tailed or rock lizard, from ditto.
Iguana, just hatched from the egg, from ditto.
Tree frog of New South Wales, with numerous
lizards, &c.
- Dr. Beckwith 2 specimens of Tortoise.
- W. J. Farrer, Esq. (*Dromonby
Hill*) A variety of the chaffinch.
- W. Hatfeild, Esq. 53 skins of birds, from Trinidad.
The bull frog, from Dominica.
- Mr. W. Hardman Australian stork, from the collection of Mrs.
Colonel Dumaresq.

ANNULOSA.

- James Backhouse, Esq. Catterpillars, from Sidney.
Green centipede, ditto.
- Mrs. W. V. Harcourt..... A beetle, from the Brazils.

MOLLUSCA AND ZOOPHYTA.

- W. Hatfeild, Esq. 2 shells, from the Bermudas.
Fine specimen of Brain stone.
- R. Ward Jackson, Esq. Loligo sagittalis, from the mouth of the Tees.
- S. Dalton, Esq. Various specimens of shells.
- T. Rudd, Esq. Specimens of *Auricula myosotis* and *Turbo
ulva*, from Redcar.

BOTANY.

James Backhouse, Esq.	Fruit of the Barringtonia.
Mr. Baines (<i>Sub-Curator</i>)	Fruit of the <i>Phytelephas macrocarpa</i> (vegetable ivory).
Dr. Beckwith	Specimens of various kinds of woods.
J. Dalton, Esq.	Splendid collection of lichens, collected by the late Rev. J. Dalton, of Croft.
Rev. F. O. Morris	Various dried plants.

ANTIQUITIES.

W. L. Palmes, Esq.	An ancient Egyptian brick, found Feb. 1843, about 6 miles S.E. of Luxor.
A. Strickland, Esq.	Two Roman bricks.

COINS, &c.

Dr. Beckwith	74 gold and silver, and 26 copper coins. 148 copper tokens, 24 engraved gems. 11 casts in porcelain of ancient coins.
J. Dalton, Esq.	Various coins and medals.
E. Hailstone, Esq.	Impressions of eight foreign seals.
D. H. Haigh, Esq. (<i>Leeds</i>) ...	121 Saxon, English, and foreign coins.
Rev. F. O. Morris	26 sulphur and plaster casts.
Miss Rachel Oldfield	Various coins, 7 in number.
Mr. R. Ready, (<i>Leeds</i>)	50 sulphur casts of seals and coins.
Rev. C. Wellbeloved	9 Roman family coins.

GARDEN.

Mr. Barrett, (<i>Wakefield</i>)	80 species and varieties of Fuchsia. 60 varieties of Chrysanthemum. 1 peck of Crocus roots.
Mr. Borrer	Several rare British plants.
R. Gilbert, Esq.	12 <i>Kalmia latifolia</i> . 12 Rhododendron.
J. Roper, Esq.	40 Geraniums.

MISCELLANEOUS DONATIONS.

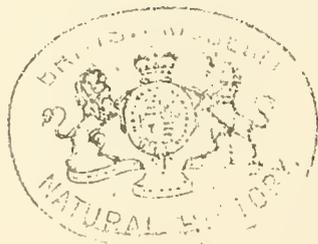
Dr. Beckwith	Specimens of spun glass. A Hindostanee breast-plate.
Mr. Knaggs.....	2 pair of Esquimeaux boots.
Mrs. Charles Metcalf	A Chinese hair cap.
Rev. F. O. Morris	Various artificial curiosities.
W. Oldfield, Esq.....	One of the windows taken out of the S.W. tower of York Minster.
Mr. Schwerer (<i>Stonegate</i>)	A wooden watch, made at Lenskirch, near Neu- stadt, in the Black Forest, about 8 standia from Frieburgh, sent to Hull in 1819.

LIBRARY.

Academie Royale de Bruxelles...	Bulletins de l'Académie, Année 1842, tom. ix. No. 7, & 1843, pt. 2. 6 Nos. Instructions pour l'Observation des Phénomènes periodiques de l'Homme, par M. Schwann. Extr. des Bulletins. Instructions pour l'Observation des Phénomènes periodiques. Extr. des Bulletins. Nouveaux Memoirs de l'Academie Royale, tom. ix —1842, & tom. xvi. Annuaire de l'Academie, 1842. Resumé des Observations Magnetiques, &c.
Botanical Society of London ...	Prospectus of the Society for 1843.
H. Breary, Esq.	Tables of Mortality for 1842.
— Burrows, Esq.	Description of the Fossil Deer of Ireland.
Council of British Association...	Report for 1842.
Rev. D. R. Currer	Monograph of the Ammonites of the Yorkshire Lias, described from Nature, by M. Simpson, Curator to the Geol. and Polytec. Society of the West Riding.
Issachar Cozzens, Jun. (<i>the Author</i>)	Geological history of Manhattan, or New York Island; with Maps, &c.
R. Davies, Esq. (<i>the Author</i>) ...	Records of York during the xv Century.
Geological Society	Proceedings of the Society for 1842—3.
Cavalier Giuseppe Gené	Memoria par servire alla Storia Naturale, &c.
J. Hogg, Esq., M.A., F.L.S. (<i>the Author</i>)	Catalogue of Sicilian Plants, with some Re- marks, on the Geography, Geology, and Ve- getation of Sicily. (From Mag. Nat. Hist.)

- James Hamerton, Esq. (*the Author*) Arboriculture. A Paper read before the Geol. and Polytec. Society of the West Riding.
- Rev. J. Kenrick Address of the Committee, and list of Works of the Society for the Diffusion of Useful Knowledge.
- Leeds Literary and Phil. Society. Report for 1841—2.
- J. M. Morgan, Esq. Religion and Crime, or Distresses of the People and their Remedies, 1842.
- Professor Phillips Notes on the Commerce of France, in 1840.
- By order of Government..... Observations on Days of unusual Magnetic disturbance.
- Edward Hailstone, Esq. Geometry Improved, by Abraham Sharpe, 1712.
- Royal Cornwall Polytechnic Society..... Tenth Annual Report.
- Professor Sedgwick and R. I. Murchison, Esq. (*the Authors*) On the Distribution and Classification of the Older or Palæozoic Deposits of the North of Germany and Belgium, and on their comparison with Formations of the same age in the British Islands.
- On the Fossils of the Older Deposits in the Rhenish Provinces, with Plates, by the Viscount D'Archiac and M. E. de Verneuil.
- Royal Society of Edinburgh ... Proceedings of the Society, Nos. 21 & 22.
- Transactions of the Society, vol. xv. part 3.
- The Lords Commissioners of the Admiralty Groombridge's Catalogue of Circumpolar Stars, edited by G. Biddell Airy, Esq. A.M., Astronomer Royal.
- W. Oldfield, Esq. An exact list of the Voluntary Subscribers, with the sums each subscribed and paid, for the security of his Majesties person and Government, and for the defence of the County of York. Dated 1747.
- Rev. J. Montgomery Traherne, M.A. &c. (*the Author*) Historical notices of Sir Matthew Cradock.
- Zoological Society Proceedings for 1842.

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