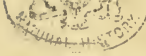


S. 403. A. 1.



21 MAR 1839

OBJECTS AND LAWS

OF THE

YORKSHIRE

PHILOSOPHICAL SOCIETY:

K.

WITH THE

ANNUAL REPORT

FOR MDCCCXXIII:

REGULATIONS AND CATALOGUE OF THE LIBRARY:

LIST OF OFFICERS ETC.



AND GENERAL LIST OF MEMBERS.



YORK:

PRINTED BY W. ALEXANDER AND SON
CASTLEGATE
MDCCCXXIV.

B. H. N. H
General

THE UNIVERSITY OF CHICAGO
PHYSICS DEPARTMENT
RESEARCH REPORT

THEORY OF THE

OF THE

BY

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THE HISTORY OF THE



[The text in this section is extremely faint and illegible. It appears to be a list of entries or a table of contents, with several lines of text visible but not readable.]

OBJECTS OF THE SOCIETY.



The general object of the Society, is the promotion of Science in the district for which it has been instituted. To this end, it would enroll among its members not only those who are themselves engaged in philosophical studies, but all by whom the value of such studies is duly appreciated; not those alone who hope to extend the boundaries of knowledge by their own researches, but all who are willing to encourage the prosecution of such researches by others, and to concur in furnishing those facilities to scientific enquirers, which a Philosophical Association is capable of affording.

There are many ways in which Philosophical Societies may promote the interests of Science. They may contribute to its diffusion by giving encouragement to Public Lectures, or forward its advancement by providing apparatus for original experiments and observations; but there are some objects of scientific utility, which this Society considers as certainly within its reach, and intends therefore to keep immediately in view.

One of these objects is, to facilitate the mutual communication of philosophical opinions and facts, by holding General Meetings, at which papers may be read, and oral information received.

Another object is, to establish a **SCIENTIFIC LIBRARY**, by means of which, persons of various pursuits in different parts of the County, may be enabled to consult Books, on the subjects of their respective studies, which it might not be convenient for them, individually, to purchase; and, for that purpose, a Collection will by degrees be made, of the Transactions of Philosophical Societies, Journals of Science, and Works on Arts, Antiquities, and Natural History, especially those parts of it which relate to Mineralogy and Geology.

The more particular object of the Society is, to elucidate the Geology of Yorkshire. There are few Counties in England which are traversed by so great a variety of Strata as this, few of which the Strata contain so many Fossils interesting to the Geologist, or so many Minerals important to the Arts, and few of which the geological relations are so imperfectly and doubtfully determined. Towards the illustration of this subject, the Society hope that much may be done, by the combined observation of many individuals in their respective neighbourhoods, and by a contribution of Specimens from every part of Yorkshire to a **CENTRAL MUSEUM**.

But though the illustration of Geology is the principal design of the Society's Museum, it is intended to embrace

all the departments of Natural History; to receive specimens of Comparative Anatomy and Zoology, and contain collections of Insects, Shells, and Birds. It will be open also to other objects of Scientific Curiosity, and will be a Repository for those Antiquities, with which the County, and particularly the City of York, is known to abound.

In this statement of their designs, the Society not only have it in view to increase their efficiency, by adding to the number of their Members, but hope also to induce many other persons to promote, what cannot be considered otherwise than as a project of public utility, by contributing to the Museum, and particularly by sending to it Specimens of Minerals and Fossils, which, of however little value they may appear, cannot fail of being interesting, if the place in which they occur, the kind of Stratum, and its position with respect to other Strata in the neighbourhood, be only noted. *Drawings* and *Casts* of Fossil Specimens in other Cabinets, will be very acceptable to the Society.* They will also be greatly obliged by Communications addressed to their Secretaries, relative to the Strata of any part of the Country, and particularly of Yorkshire. Persons not pretending to much knowledge of Mineralogy, may be of essential service, by observing those points of JUNCTION, where different kinds of Rock come in contact with

* Whenever it is practicable, the Drawings ought to give the *full* front, and the profile. These will assign the true outline. Cuvier's 'Ossemens Fossiles' furnish an illustration of the advantages of this method of description.—See Tom. II. 2de. partie, Pl. 3. fig. 6. A. B. Pl. 5. fig. 9. a. b. c.

each other, and by furnishing SECTIONS OF THE STRATA, as they are laid open, in some parts naturally by rivers or the sea, and in others, presented artificially by quarries, wells, or mines.

These, indeed, are minute details; but with such minutiae, great practical utility is immediately connected: from such minutiae, the knowledge of the Earth's structure is to be deduced, and a Science hereafter to be raised, which may lead to conclusions as important, perhaps, as any of those which have been so happily derived from the other parts of Natural Philosophy.

A desire of mutually communicating information, and interchanging specimens with this Institution, has been expressed by similar Establishments in different parts of the Country. Such a co-operation will greatly advance the general views of the Yorkshire Philosophical Society, and in particular contribute much to accomplish an accurate identification of the Strata, and the construction of a perfect map of the Geology of England.



☞ The Treasurer is authorized to receive DONATIONS for the general purposes of the Society from Members, or other persons desirous of promoting its Objects. Presents of BOOKS, SPECIMENS, OF PHILOSOPHICAL APPARATUS, will be received by the Secretaries, at the Society's Rooms in York.

LAWS OF THE SOCIETY.



SECTION I.

MEETINGS.

I. General Meetings of the Society shall be held on the second Tuesday of every Month, at Twelve o'clock at Noon. At these meetings, scientific Communications shall be received, subjects of Science discussed, Donations presented, and new Members elected.

Monthly Meetings.

II. The Meeting in January, which shall be designated the Annual Meeting, shall have power to enact new Laws for the Society, to alter and rescind existing Laws, and to elect Officers and Members of the Council.

Annual Meeting.

III. Special Meetings summoned by the Council, shall have the same powers as the Annual Meeting: provided that a notice have been issued a week before, to every subscribing Member residing within the County, specifying the object of the Meeting; to which object its proceedings shall be confined.

Special Meetings.

IV. Adjourned Meetings shall have the same powers as the Meetings from which they were adjourned.

Adjourned Meetings.

Right of
Voting.

V. Subscribing Members alone, shall have the right of voting at a Meeting.

Chair, by
whom and
when taken.

VI. The President, if present, shall take the Chair at the Meetings; in his absence a Vice-President, and in the absence of the Vice-Presidents, a Member of the Council. The Chair shall be taken as soon after Twelve o'clock, as five Members shall have assembled.

Decision of
Questions.

VII. Questions proposed at a Meeting shall be determined by a majority of votes; and if the votes be equal, the Chairman shall have a second, or casting vote.

SECTION II.

OFFICERS AND COUNCIL.

Officers.

I. A President, six Vice-Presidents, a Treasurer, and Secretaries, shall be chosen out of the Subscribing Members, every year, at the Annual Meeting, and shall be re-eligible from year to year.

Council.

II. The Affairs of the Society shall be conducted, in conformity with the Laws, by these Officers, and a Council consisting of twelve subscribing Members.

III. Four new Members of the Council shall be chosen yearly, out of the Subscribing Members of the Society, at the Annual Meeting; the supernumerary Members of the former Council retiring in the order of seniority, (or, where the seniority is undetermined, by lot,) and not being re-eligible for the current year.

Mode of Elec-
tion of Officers
and Council.

IV. There shall be laid before each Subscribing Member present at the Annual Meeting, a List of all the Subscribing Members of the Society, and also a Balloting Paper. On the

latter, each Member shall write the names of those whom he desires to fill the several Offices, and shall deliver it, folded up, to the Chairman. The Chairman shall appoint two Scrutineers to examine the balloting papers, and those Members who have the greatest number of votes for the respective Offices, shall be thereby elected to fill them. The Chairman shall announce the result of the Election to the Meeting, which shall then proceed in like manner to the Election of the new Members of the Council.

V. The President, Vice-Presidents, Treasurer, and Secretaries, shall be *ex-officio* Members of the Council.

Ex-officio
Members of the
Council.

VI. The Council shall meet at One o'clock on the Monday preceding each monthly Meeting; and oftener, if occasion shall require, on a summons issued not later than the preceding day, by two Officers of the Society. The presence of Five Members shall constitute a meeting of the Council.

Meetings of the
Council.

VII. The Chair shall be taken in the Council, in the same order as at the General Meetings.

VIII. Questions proposed in the Council, shall be decided by the majority of votes; and if the votes are equal, the Chairman shall have a second, or casting vote.

IX. The Council shall appoint Curators, who, with the President and Secretaries, shall have the superintendance of the several departments of the Museum, and of the Library, and shall prepare Catalogues of the same.

Curators.

X. Previous to the Annual Meeting, the Curators shall make a Report to the Council, of the additions made in the course of the year to their respective departments.

Reports.

XI. The Treasurer shall make a quarterly Report to the Council, of the state of the Society's Funds.

XII. The Council, at the Annual Meeting, shall present a Report of the state of the Society's Funds, the progress of the Library and Museum, and the general advancement of the objects of the Society; and the Report, if approved by the Meeting, shall be printed and sent to the members.

SECTION III.

ELECTION OF MEMBERS.

Proposal of
Members.

I. The proposal of a Subscribing Member shall be in the following form, signed by three Members of the Society, and shall be hung up in the Library, for one week previous to the ballot :

of *being desirous of*
becoming a Member of the Yorkshire Philosophical Society,
we, whose names are undersigned, do recommend him as a
proper person to be a Member thereof.

(Date.)

(Signatures.)

II. Honorary Members shall be proposed by the Council, and no previous notice shall be required.

Ballot for
Members.

III. The ballot for a Candidate shall take place at a General Meeting, and if three-fourths of the Subscribing Members present vote in the affirmative, he shall be admitted into the Society.

SECTION IV.

PAYMENTS OF MEMBERS.

I. Each subscribing Member shall pay to the Treasurer Five Pounds on his admission, and an Annual Subscription of One Pound on every first day of January following.

Admission-
money and
Subscription.

II. A Member may compound for his future annual subscriptions by a payment of Ten Pounds; and, having so compounded, he shall be entitled to all the privileges of a Subscribing Member.

Composition.

SECTION V.

PROPERTY.

I. The Property of the Society is, and shall be, vested in the Subscribing Members.

Property in
whom vested.

II. The Council shall be authorized to exchange specimens belonging to the Society, with other institutions or individuals, in such manner as they may judge conducive to the interests of the Society and Science; such specimens excepted, as shall have been given to the Society under restrictions to the contrary.

Exchange of
Specimens.

III. The Council shall be authorized to make purchases, and give orders on the Treasurer, upon the Society's account.

Purchases and
Disbursements.

SECTION VI.

MUSEUM AND LIBRARY.

Access to
Museum
and Library.

I. Members, both Subscribing and Honorary, and Strangers accompanied by a Member, shall have access to the Museum and Library, subject to such restrictions and regulations as the Council shall appoint.

Circulation
of Books.

II. Such of the Society's Books, as in the judgment of the Council can be permitted to circulate, shall be sent out to Subscribing Members resident within the County, under such regulations and penalties as the Council shall appoint.

REPORT

OF THE COMMITTEE FOR 1823,

TO

THE ANNUAL MEETING.

THE Committee, in making their first Report on the state of the Society's affairs, have great satisfaction in announcing to the Annual Meeting, that the Institution has received a support equal to their most sanguine expectations.

In little more than a twelvemonth, there have been placed on the books of the Society, the names of ONE HUNDRED AND TWENTY Subscribers, residing in different parts of Yorkshire, who have considered it an honourable and useful object, to promote the pursuits of Science in the County to which they belong.

The advantages which had been anticipated to the illustration of Natural History, from a Society confining its attention to a particular field of research, and yet spread over a district of such extent and variety as the County of York, are already beginning to be conspicuous. It will appear from the list subjoined to this Report, that in the last year upwards of TWO THOUSAND specimens of Minerals and Fossils, for the most part illustrative of the Geology of Yorkshire, have been entered on the Society's Catalogue, as gratuitous donations, exclusive of the TWO HUNDRED AND FORTY FIVE specimens from the Cave of Kirkdale, which formed the commencement of this part of the Museum; and it will be also seen, that in the various branches of Zoology, and in the Antiquarian Department, valuable contributions have been furnished, and the foundation of future collections laid.

The principle on which the Society has proceeded, of fixing the terms of Subscription as low as possible, in order that no cultivator of Science might be excluded from it by pecuniary considerations, renders the utmost economy necessary in the management of its funds; and the Committee have not thought themselves justified in laying out any considerable sum in the purchase of Fossils, however desirable for the Museum, but have trusted, for the enlargement of the geological collection, almost entirely to the zeal and liberality of individual Members. But with respect to Mineralogy, in which specimens are more expensive and less easily procured, they have

judged it useful to make purchases to the amount of about Forty Pounds, which, added to the Minerals presented to the Society by its Members, and in particular, an extensive donation from Mr. Hepworth, form a respectable commencement of a Mineralogical cabinet.

The Committee have expended a more considerable sum in the purchase of Books, a large proportion of which have been foreign works in Natural History, imported on advantageous terms directly from Paris. The Library has also been increased by many liberal donations from Members of the Society; and the books are now become sufficiently numerous to make it proper that a list of them should be printed, and regulations for the use of them framed; though it cannot be expected that the Library of an infant Society, with such limited funds, should answer any extensive demand for circulation.

But the most considerable article of expenditure during the last year, has been the fitting up of the Society's Rooms with the necessary Furniture, and particularly with Cabinets and Cases. To combine security with facility of inspection, the Committee have thought it desirable, as far as room permits, to place the Minerals and Fossils under glass; proposing however, that the less striking specimens of geological detail shall hereafter be distributed in drawers, which is the most economical disposition, with respect both to cost and space. The expense of the glazed cases has raised the sum under this head, in the Treasurer's account, to near Two Hundred

Pounds; and it is calculated that about Sixty Pounds in addition will be required to complete the arrangements; an expense which will be more than defrayed by the surplus of income for 1823.

The Committee have been enabled to apply the Society's Funds to these objects with very little deduction, in consequence of the low rate at which house-room has been obtained. Twelve Members of the Society having purchased a House with a view to its accommodation, require a rent of only thirty guineas a year for the five rooms which it occupies: these are occupied without payment of taxes, and they are sufficient, at present, for the purposes of the Society, in every respect but this, that none of the rooms are large enough for the delivery of Lectures.

The advantages which might accrue to the Society, and the effect of diffusing a taste for Science, which might be expected from scientific Lectures given under the Society's patronage, have been more than once adverted to in the General Meetings; and the Committee have, in consequence, taken measures to accomplish so desirable an object: they have entered into an engagement for a course of Lectures on Geology, to be delivered in February, by Mr. WILLIAM SMITH, a name well known to the Society, as that of a man to whom the Science of Geology is highly indebted, both for establishing some of the general principles on which it is studied, and for ascertaining so much of its detail; and who, after a practical acquaintance of more than twenty years with the Strata of Yorkshire, is at

present employed in preparing a corrected edition of his Geological Map of the County. They propose also, with the approbation of the Meeting, at a more advanced period of the year, to avail themselves of the talents of a well qualified Lecturer in Chemistry, who has offered his services to the Society.

The Committee are of opinion that Lecturers of superior qualifications, on a variety of subjects, might hereafter be engaged on advantageous terms, if a system of co-operation could be established among the numerous Scientific Societies which are springing up in every part of England. To this end, they have put themselves in correspondence with the Members of the Philosophical Institutions at Manchester and Bristol; and, with the sanction of the Meeting, shall proceed to invite other Societies to join in their views.

The plans which the Committee have thus formed, are proposed in the confidence that they will meet with the ready and adequate support of the inhabitants of the city and vicinity of York, to whom, whether Members of the Society or not, it is presumed that the establishment of able Lectures in the various branches of knowledge, will appear an important acquisition. Should the Committee even be disappointed in this expectation, the experiment involves no material risk to the Society's funds: should it prove successful, to the degree only of paying the salaries of the Lecturers and the rent of a Lecture room, the Committee think it very

desirable that such a room should hereafter form a part of the Society's establishment. They cannot however but indulge a hope, that the suggestion they are now submitting to you may prove of still greater advantage to the Society ; and that, in connecting this object with its other views, it may go on in increasing prosperity, multiplying the number of its Members, enlarging the extent of its Resources, and answering the purposes of its Institution.

Jan. 13, 1824.

STATE OF THE SOCIETY'S FUNDS, January 13th, 1824.

INCOME.

	£.	s.	d.
Admissions, Subscriptions, and Compositions received	484	0	0
Admissions, and Subscriptions for 1823, still due	73	0	0

EXPENDITURE.

	£.	s.	d.
Cabinets, fitting up of Rooms, and Furniture.....	197	19	0½
Books, Maps, Stationery, and Binding.....	157	14	4
Printing	16	6	0
Minerals and Fossils.....	44	13	6
Half-Year's Rent	15	15	0
Wages.....	11	15	6
Incidents, Postage, House-expenses, &c.....	21	15	3½
Advanced towards Foreign Books ordered by the Committee.....	10	5	3
Balance in the Treasurer's hands.....	7	16	1
Due to him from Members.....	73	0	0

£ 557 0 0

£ 557 0 0

The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is equivalent to the problem of finding the minimum of a certain function. This function is defined as follows:

$$\begin{aligned}
 & \text{Let } f(x) = \sum_{i=1}^n a_i x_i \\
 & \text{and } g(x) = \sum_{i=1}^n b_i x_i^2
 \end{aligned}$$

where a_i and b_i are constants. The problem is to find the minimum of $f(x)$ subject to the constraint $g(x) = 1$. This is a constrained optimization problem. The method of Lagrange multipliers is used to solve this problem. The Lagrangian function is defined as follows:

$$L(x, \lambda) = f(x) - \lambda(g(x) - 1)$$

The necessary conditions for a minimum are that the partial derivatives of L with respect to x_i and λ are zero. This leads to the following system of equations:

$$\begin{aligned}
 & a_i - 2\lambda b_i x_i = 0 \\
 & \sum_{i=1}^n b_i x_i^2 = 1
 \end{aligned}$$

DONATIONS

TO THE SOCIETY'S LIBRARY AND MUSEUM.

+ Donors being Members of the Society.

* Honorary Members.

TO THE LIBRARY.

- | | |
|--|-------------------------|
| Geological Survey of Yorkshire, by the
Rev. George Young and John Bird. | * The Authors. |
| Flora Scotica, by William Jackson
Hooker, LL.D. | * The Author. |
| Reliquiæ Diluvianæ, by Professor
Buckland..... | * The Author. |
| Conybeare and Phillips's Geology of
England..... | * Rev. W. D. Conybeare. |
| Elementary Introduction to Mineralogy,
by William Phillips..... | } * The Author. |
| Lectures on Astronomy, by William
Phillips. | |
| Natural History of the Crinoidea, or
Lily-shaped Animals, by J. S.
Miller, A.L.S. | * The Author. |
| Syllabus of Lectures on Mineralogy, by
Professor Henslow. | * The Author. |
| On the Geology of the Coast of
France, (from the Phil. Trans.) by
H. T. De la Beche, Esq. | * The Author. |
| On the Fossil Bones of Oreston, (from
ditto,) by Mr. William Clift. | * The Author. |
| Molinet, Pontificum Numismata | } + Rev. W. V. Vernon. |
| Mantell's Geology of Sussex..... | |
| Hill on Fossils | |

- Haüy, *Traité de Minéralogie*, 4 vols. and
Atlas..... † Mr. Salmoud.
- Kirwan's *Mineralogy*, 2 vols. }
Kirwan's *Geological Atlas*..... } † Rev. C. Wellbeloved.
- Newton's *Opticks*. }
Newton's *Principia*, translated by Motte, } † Mr. Ryland.
2 vols..... }
- Haüy's *Natural Philosophy*, by Gregory,
2 vols..... † Mr. G. Meynell.
- Renerii *Tabulæ Medicæ*. † Mr. Jas. Atkinson.
- Edinburgh *Philosophical Journal*, vols.
1 to 8. }
Kirby and Spence's *Entomology*, 2 vols. }
Burrow's *Conchology*. } † Dr. Goldie.
Jameson's *Mineralogy*, 3 vols. }
——— *Characters of Minerals*. }
Lamarck, *Philosophie Zoologique*, 2 vols. }
Kendall's *Scarborough Fossils*. }
- Catalogue of the York Subscription }
Library..... } The York Subscription
Library.
- Evelyn's *Terra*..... † Mr. G. Todd.
- Wernerian Society's *Memoirs*, v. 1, 2, 3. † Mr. Meynell, Friarage.

MAPS AND PRINTS.

- Geological Map of 24 miles round Bath,
by the Rev. W. D. Conybeare, and
H. T. De la Beche..... * The Authors.
- Tuke's Map of Yorkshire..... † Mr. D. Tuke.
- Print of an *Ichthyosaurus*, (from
the *Philosophical Transactions*.).... * Mr. Clift.
- Print of *Ulphus' Horn*, by Vertue. }
Lithographic Print of the Old and New }
Ouse-Bridge, by H. Cave. } † Mr. G. Todd.
- Print of a *Lusus Naturæ* in an Egyp- }
tian Pebble at Burton Constable. . . }
Etchings of Ancient Roman Sculpture }
found in the river River Ouse, &c. } Mr. J. Browne, Artist,
York.

DONATIONS TO THE MUSEUM.



GEOLOGY AND MINERALOGY.

144	} Specimens of Fossil Bones and Teeth, from the Cave of Kirkdale, of the Elephant, Hippopotamus, Rhinoceros, Ox, Stag, Hyæna, Fox, Water-Rat, and Widgeon: the bones and teeth of the Hyæna amounting to 122.	† Mr. Jas. Atkinson.
43		† Mr. Salmond.
36		† Mr. Thorpe.
13		† H. A. Atcheson, M.B.
8		* Rev. W. Eastmead.
6		† Rev. W. V. Vernon.
21 Bones of Hyæna, Horse, and Ox, found in the Oreston Caves, near Plymouth		} Mr. Creyke, jun. and Rev. S. Creyke.
Tooth of an Elephant, supposed to be fossil		† Mr. Thorpe.
Part of the Tusk of an Elephant, found in the gravel at Rugby		† Mr. Salmond.
Part of a large Tusk of an Elephant, found in the gravel at Brandsburton.		Mr. Shepherd, Beverley.
Portion of the Tusk of an Elephant, found at Atwick		* Dr. Alderson.
Part of a large Tusk of an Elephant, found in the gravel at Overton, near York		} † Mr. Thompson, Kirby-Hall.
Fragments of Elephants' Tusks, found in the gravel at Overton		} † H. A. Atcheson, M.B. and † Rev. J. Graham.

- Portions of three Teeth of the Elephant,
and a Tooth of the Rhinoceros, found
near Bridlington † Rev. W. V. Vernon.
- Horns of a large species of Stag, found
in digging the Pocklington Canal. † Mr. Alderman Smith.
-
- Head and part of a Skeleton of the
Ichthyosaurus, from the Whitby Alum
Shale; 480 other Fossils, from the
Strata of Yorkshire and other parts of
England; and 57 Swedish, Alpine,
and other Minerals. † Rev. W. V. Vernon.
- Skeleton of an Ichthyosaurus, with other
portions of Ichthyosaurus, and other
Fossils, from Whitby Alum-Shale. . . * Mr. Eglin,
- Head of a Fossil Crocodile, Head of an
Ichthyosaurus, and 57 Bones of Ich-
thyosaurus, &c. from Do. * Mr. Bird,
- 2 Upper Jaws, a Section of the
Vertebræ, the Spine and Ribs of
Ichthyosaurus, and a large mass of
Madreporite, from the Alum Shale:
other Fossils and Minerals † Mr. Thorpe.
- Cast of the Under Jaw of a Plesiosaurus,
found in the Dorsetshire Lias Mr. Chantrey, R.A.
- Several Specimens of Remains of the
Ichthyosaurus, and 170 of Fossil
Shells, &c. all from the Malton Oölite. * Mr. Pickering.
- 35 Geological Specimens, chiefly York-
shire. † Mr. Salmond.
- 57 Geological and Mineralogical Spe-
cimens. † Rev. J. Graham.
- 17 Specimens of the Fossils of the
Coral Rag and Lias of Wilts and
Somerset. } * Rev. W. D. Conybeare,
and * Mr. Miller.

- 31 Geological Specimens, chiefly from Northumberland. † Rev. L. V. Vernon.
- 23 Do. from Craike and its Vicinity . . . † Rev. W. H. Dixon.
- 21 Minerals, chiefly foreign. † Mr. Meynell, Friarage.
- 216 Ores, Precious Stones, and other Minerals. † Mr. Hepworth.
- 14 Minerals from Royal Mines in Spain Dean of Ripon.
- 79 Minerals and Fossils. † Mr. Copsie.
- 22 Specimens of Vegetable Impressions from the Coal-measures, Silkstone. Rev. Mr. Affleck.
- 51 Do. from the Low Moor Iron Works, with specimens of the Iron in its progressive states, and one of Metallic Titanium. † Mr. H. W. Hird.
- Several specimens of Vegetable Impressions, from the Coal-measures near Chesterfield. † Mr. J. L. Eyre.
- Large Phytolithus in Sand-stone, from the Coal-measures. Mr. Fawkes, Farnley.
- 12 Specimens of Vegetable Impressions, from the Coal-measures in the County of Durham. † Mr. Hawksworth Fawkes.
- 8 Do. Yorkshire. Mr. W. Leatham, Wakefield.
- 51 Specimens of Alpine Rocks, and 13 foreign Minerals. † Mr. Marshall.
- 77 Alpine and Vesuvian Rock Specimens and Minerals. † Lord Stourton.
- Collection of Rocks formed at Freyberg, and arranged according to the Wernerian School. * Mr. Heuland.
- 7 Yorkshire Fossils. † Rev. F. Kendall.
- 15 Fossils from the Chalk of the Wolds. * Archdeacon Wrangham.
- 23 Specimens from the Magnesian Limestone, Bramham, &c. † Rev. B. Eamsonson.

7 Fossil Shells from the Oölite, Langton Wold.	Mrs. Norcliffe.
Specimen of Bufonites, and 29 other Fossils and Rock Specimens from the Oölite, near Castle Howard.	† Earl of Carlisle.
4 Specimens of Minerals, from Knaresborough.	Dr. Murray.
Celestine, from do.	Mr. Sutcliffe, York.
26 Minerals and Fossils.	{ Mr. Bland, Ormside Lodge, Westmorland.
Agate, from Oberstein.	Mr. J. Hearon, York.
33 Fossils from the Whitby Alum-Shale.	Mr. Belcher, Whitby.
33 Specimens of Trap, in contact with the Shale of Coal-measures, and converting it to Garnets and Analcime, from Anglesea.	* Professor Henslow.
16 Fossils from the Lias at Wilton in Cleveland.	* Rev. W. Taylor.
8 Fossils from Pembrokeshire, &c. ...	Mr. Ellison, York.
51 Fossils and Minerals.	† Mr. Danby.
Obsidian, from St. Helena.	Mr. H. Strickland, York.
Part of a series of Rocks, to illustrate the "Geological Survey of the Yorkshire Coast."	* Rev. G. Young.
16 Fossil and Rock specimens from the Magnesian Limestone, County of Durham.	† Mr. T. Backhouse.
48 Fossils of the Transition Limestone of the Midland Counties.	* Rev. Robert Halifax.
6 Specimens of Magnesian Limestone, from the County of Durham.	Mr. H.F. Smith, Darlington.
20 Fossils and Minerals.	Miss Currer, Eshton Hall.

25 Minerals from the Mines of Copiapo, Chili, and other parts of South America; from Africa, St. Helena, and Conception.	Capt. Fred. Vernon, R. N.
16 Foreign and British Marbles.	† Rev. W. Smith, <i>deceased</i> .
2 Specimens of Marble, from Westgate Common, Wakefield.	Rev. S. Sharpe.
Fossils from Malton Oölite.	† Rev. Sydney Smith.
110 Geological Specimens, chiefly from the Oölitic Series of Rocks in Oxfordshire	* Rev. Professor Buckland.

RECENT ZOOLOGY.

Skull of an Asiatic Elephant.	† Mr. Danby.
Skull of the Walrus.	† Mr. Hornor.
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Skull of the Polar Bear, a very large specimen; and Wings of the Flying Fish.	† Mr. Henwood:
4 Casts, of the Upper and Lower Jaws of the Caiman, and of other Bones in his private collection.	† Mr. Jas. Atkinson.
9 Birds, and 50 Insects, from Canada.	† Mr. Strickland.
Chinese Pheasant, male and female.	Mr. Alderman Hearon.
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- A Collection of West Indian and South
Sea Shells..... † Rev. W. V. Vernon.
- 5 1 Species of Yorkshire Shells, many of
them newly discovered * Mr. Bean.
- Shells of *Cardium Edule*, perforated by
one of the *Zoophages* of Lamarck.
(Vide Phil. Trans. 1823. pt. 2. p. 396.) } Mr. Dillwyn, F.R.S.
- Skeletons and Bones of small Animals. } † Rev. W. V. Vernon,
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ANTIQUITIES, COINS, &c.



ANTIQUITIES.

- Several Roman Cinerary Urns, and a Roman Lamp, found near Malton. †Rev. C. Sykes.
- Several Cinerary Urns, Amphoræ, Pateræ, and two Roman Lamps, found near York Mr. Knowlson, York.
- An Ancient Head in Stone, laureated, found at the foundations of a house in Stonegate. Fragments of Roman Pottery. Two Bricks, one marked LEG. VI. Ancient British Glass Beads found in a tumulus. An Enamelled Plate with the emblems of the four Evangelists, &c. &c..... } †Mr. Jas. Atkinson.
- A Celt from the Isle of Axholme. A Roman Sacrificial Sculpture, from the Roman Wall in Northumberland. An ancient British Stone Axe..... †Rev. J. Graham.
- Six Moulds of Ancient Roman Coins, found at Wakefield. Fragments of Roman Pottery. Two Leaden Bullæ of GREG. VIII. and ALEX. IV. one found at Cawood, the other at Bishopthorpe. } †Rev. W. V. Vernon.

- The "Upper part of a Pouch," of the Fifteenth Century.* A small Box made from the wood of the ancient Vessel found in the Rother. } †Rev. W. V. Vernon.
- A small figure, in brass, of a Bacchante, found near the Multangular Tower, York. } Mr. G. Thorpe, Kirkton, Lincolnshire.
- A Roman Meta, or, Upper Mill Stone, found in the Roman Camp at Adel. + Mr. P. Atkinson.
- A Roman Amphora. An Ancient British Stone Axe. An Ancient Flint Adze from Denmark. + Mr. Thorpe.
- A Celt found at Stittenham. Mr. R. Tuke.
- A Roman Earthen Vessel. An Antique Brass Spur, found near the foundation of Ouse Bridge. + Mr. Sanderson.
- A Piece of Bituminous Cement from Babylon. } Rev. Mr. Canning, Heselton.
- Fragment of Stucco from Pompeii, &c. + Mr. Meynell.
- Roman Bracelet and Ear-rings of Silver, found near Severus' Hills, York. . . . Mr. Jackson, York.
- A Roman Bronze Bracelet. + Mr. Ryland.
- A Roman Earthen Vessel + Mr. Copsie.
- An Ancient Sculpture, probably British, found in Stonegate. Part of the Architrave of a Roman Doorway, found at the bottom of one of the piers of the Old Ouse Bridge, York. + Mr. G. Todd.
- Ancient Figure in wood, probably Monastic, found in Cleveland. + Mr. D. Tuke.
- A curiously ornamented Silver and Copper Gilt Bowl, probably of the Fourteenth Century, found in Ormside Burial Ground, Westmoreland. . . Mr. Bland, Ormside Lodge.

* Vide *Archæologia*, Vol. xvii. page 116.

- Sigillum Capituli Beatae Mariae, &c.
 found at Skelton. Mr. Robinson, Rydal.
- Mummy of an Ibis, brought from
 Egypt by the late Dr. Clarke †H. A. Atcheson, M. B.
- Fragments of a Roman Tessellated
 Pavement, &c. found last Summer in
 Hampshire †Mr. Pemberton.

MISCELLANEOUS.

- A Chinese Compass. †H. A. Atcheson, M. B.
- A Cross-bow from Sherwood Forest †Mr. Burdekin.
- Curious Ivory Steelyards Mr. W. Hornby, York.
- Twenty Carved Amber Buttons Mr. James Barber, York.
- One Hundred Plaster of Paris Casts
 from Antique Gems. †Mr. J. F. Brown.
- Idol, and other Articles from the Sout
 Sea Islands. Capt. Fred. Vernon, R. N.
- Variou. { Mr. Alderman Peacock,
 Miss Wickhams,
 Rev. T. Comber, &c.

COINS AND MEDALS.

- Fl. J. Constantinus, *æ*. Gratianus, *æ*.
 Athelstan, *ar*. Five of Edward I. *ar*.
 Elizabeth, 1574, *ar*. Jacob. I. *au*. } +Rev. W. V. Vernon.
 Carol. I. *au*. Jacob. II. *au*. }
- Tib. Claud. Cæs. Aug. *æ*. Another not
 decyphered, *æ*. both found near
 Naples } +Mr. Meynell.
- Trajan. Aug. *ar*. Victorinus Pius, *æ*.
 Edmund, *ar*. Eadrede, *ar*. Ethelstan,
ar. Edw. (Conf.) *ar*. Edw. I. *large*;
ar.—An Amulet of Silver, inscribed
 with Abracadabra, &c. } +Rev^d Archdeacon Eyre.
- Trajan. Aug. *ar*. Julia Mammæa, *ar*.
 Q. Herennius Etr. *ar*. ——— Cæsar
 Aug. *ar*. } +Mr. P. Atkinson.
- Antoninus Aug. Pius, *ar. et æ*. Con-
 stantinus, *æ*. Severus, *ar*. Elizabeth,
ar. Another unknown } +Dr. Beckwith.
- Four of Valens P. F. Aug. *ar*. Four
 Indian Coins, *ar*. Elizabeth, *ar*. } Rev. T. Comber,
 Penny of Geo. III. *ar*. } Oswaldkirk.
- Constantinus Max. *æ*. Victorinus P. F.
æ. Victorinus Pius, *æ*. Claud. ——— } +Dr. Goldie.
 ——— *æ*. Tetricus, *æ*. }
- Valens, *æ*. Victorinus, *æ*. Elizabeth,
 1565, *ar*. Carol, I. *ar*. Gul. et Maria
 1689, *ar*. Gul. et Maria, *cup*. Ludov.
 XV. *au*. Ludov. XVI. *au*. Carol. III.
 Hisp. 1783, *ar*. A small Arabic coin.
 Catharina II. *ar*. &c. } Messrs Hardman, York.

Valens P. F. *æ.* Tetricus, *æ.* Constantinus Aug. *æ.* Constantinus junior, *æ.* Victorinus, *æ.* Constans, *æ.* with 118 others found in a garden in York. . . . } † Mr. C. Watson, York.

Carausius, *æ.* † Mr. Alderman Smith.

Allectus, *æ.* Mr. Baines, Bell-Hall.

Constantinus, *æ.* † Mr. Ryland.

Valens, P. F. *æ.* Mr. J. Browne.

Nero Cæs. Aug. *æ.* Domitianus, *æ.* Hadrianus, *æ.* Antoninus Pius, *æ.* Alexander Aug. *æ.* Gordianus, *æ.* Constantinus Aug. *æ.* Constantinus P. F. *æ.* and several early English Coins } † Mr. Copsie.

Victorinus, *æ.* }
 Valentinus, *æ.* }
 Constantinus, *æ.* }
 Edw. I. 2 *ar.* 1 *æ.* }
 Jacob. I. *ar.* }
 Jacob. II. *æ.* } Donors unknown.
 Anna Reg. *medal, ar.* }
 Carolus III. Hisp. 1788, *ar.* }
 Elizabeth, *ar.* }
 Two Hans Kraywinck. in Nur. }
 Ten others, not deciphered. }

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Annals of Philosophy, (by Phillips,) from January 1822, monthly.

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*Taylor, Rev. W. *Swillington-House.*

Tempest, Stephen, *Broughton Hall.*

Thompson, P. Beilby, *Escrick.*

Thompson, G. Lowther, M.P. *Sheriff-Hutton.*

Thompson, Richard J. *Kirby Hall.*

Thompson, Rev. Robert S. *Bilbrough.*

Thorpe, Anthony, *York.*

Todd, George, *York.*

*Traill, T. S. M.D. F.R.S.E. *Liverpool.*

Tuite, J. T. *Deighton Cottage, near York.*

Tuke, Daniel, *York.*

Tuke, Samuel, *York.*

Turner, Rev. William, *York.*

Tweedy, John Drumelzier, *York.*

- Vansittart, Henry, *Kirkleatham*.
- Vernon, Granville V. *London*.
- Vernon, Rev. Leveson V. *Stokesley*.
- Vernon, Rev. William V. M.G.S. *Bishopthorpe*.
- Wood, Sir Francis Lindley, Bart. *Hemsworth*.
- *Wrangham, Rev. Archdeacon, F.R.S. F.C.P.S. *Hunmanby*.
- Wake, Baldwin, M.D. *York*.
- *Warburton, Henry, F.R.S. V.P.G.S. *London*.
- Wasse, Jonah, M.D. *Moat Hall, Little Ouseburn*.
- *Waterton, Charles, *Walton Hall*.
- Wellbeloved, Rev. Charles, *York*.
- Wemyss, Thomas, *York*.
- Wharton, John, *Aberford*.
- Wilson, Richard Fountayne, *Melton, Doncaster*.
- *Worsley, Thomas, F.C.P.S.
- Worsley, William, *Hovingham*.
- Wortley, James Archibald Stuart, M.P. *Wortley*.

YORK, ARCHBISHOP OF.

York, Dean of.

Yarburgh, Henry, *Heslington*.

*Young, Rev. George, *Whitby*.

- 1. *Journal of the American Medical Association*, 1910-1915
- 2. *Journal of the American Medical Association*, 1916-1920
- 3. *Journal of the American Medical Association*, 1921-1925
- 4. *Journal of the American Medical Association*, 1926-1930
- 5. *Journal of the American Medical Association*, 1931-1935
- 6. *Journal of the American Medical Association*, 1936-1940
- 7. *Journal of the American Medical Association*, 1941-1945
- 8. *Journal of the American Medical Association*, 1946-1950
- 9. *Journal of the American Medical Association*, 1951-1955
- 10. *Journal of the American Medical Association*, 1956-1960
- 11. *Journal of the American Medical Association*, 1961-1965
- 12. *Journal of the American Medical Association*, 1966-1970
- 13. *Journal of the American Medical Association*, 1971-1975
- 14. *Journal of the American Medical Association*, 1976-1980
- 15. *Journal of the American Medical Association*, 1981-1985
- 16. *Journal of the American Medical Association*, 1986-1990
- 17. *Journal of the American Medical Association*, 1991-1995
- 18. *Journal of the American Medical Association*, 1996-2000
- 19. *Journal of the American Medical Association*, 2001-2005
- 20. *Journal of the American Medical Association*, 2006-2010



ANNUAL REPORT

OF THE COUNCIL

OF THE

Workshire **P**hilosophical **S**ociety,

K.

FOR MDCCCXXIV.

THE GREAT

OF THE

THE

THE

W. ALEXANDER AND SON,
PRINTERS, YORK.

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It is particularly requested, that all Letters,
Communications, and Packages containing Specimens,
intended for the Society, may be directed to

“ The Secretaries

of the

Yorkshire Philosophical Society,

York.”

REPORT.

THE Council of the Yorkshire Philosophical Society beg leave to lay before the Annual Meeting, an abstract of the Society's receipts and expenditure for the year 1824, together with a detailed account of the donations which have been made, during that period, to the Library, and the various departments of the Museum.

It will be found that a considerable portion of the funds of the Society, has been employed in providing depositories for the presents made to it in the course of the last twelve-month, the number of which has been even greater than in the preceding year. In 1823, the donations to the geological and mineralogical cabinets were about TWO THOUSAND; in 1824, the donations to the Geological collection have amounted to nearly TWO THOUSAND FIVE HUNDRED, independent of more than TWO HUNDRED specimens added to the Mineralogical cases. The Council cannot but congratulate the Meeting upon so satisfactory a proof of the great and increasing zeal with which the Institution is supported, and the spirit of

research which it has awakened; and they find no reason to regret the rule which they have laid down to themselves, of relying, for the augmentation of the Geological part of the Museum, chiefly on the individual exertions of the Members of the Society, and the liberality of those who are willing to contribute to its objects.

To foreign Geology this principle has not been thought equally applicable; and the Council had no hesitation in availing itself of an offer, made through the intervention of one of the honorary Members of the Society,* by his Excellency Baron Von Struve, to purchase, at Brunswick, a very instructive series of specimens from the Mountains of the Harz, and from the Volcanic and Trap districts of Germany, Iceland, and the Azores.

In addition to what has been thus acquired by donation and purchase, there has lately been placed as a deposit in the cabinets of the Society, the private collection of Comparative Anatomy, belonging to the Curator† of that department; a collection rendered peculiarly interesting by the illustration it affords of those fossil remains of antediluvian animals, which occupy the most prominent place in the Society's Museum.

The space necessarily occupied by such an accumulation of specimens as has thus accrued from various sources, and

* Thomas Meade, esq. of Chatley, near Bath.

† James Atkinson, esq. York.

the arrangements required to bring them before the eye, to the extent desirable in an institution which cannot command the constant attendance of a Curator, will amply account to the Meeting for the principal item in the expenditure of the last year, the sum of One Hundred and Sixty-eight Pounds, employed in furnishing the Rooms. The remaining expenses may be generally stated to have consisted in Sixty-five Pounds laid out in Books and Maps, and about One Hundred Pounds in defraying charges which must be expected to be of annual recurrence. These disbursements have left, at the end of 1824, a balance on the books in favour of the Society, to the amount of Seventy Pounds, which, added to the Subscriptions due for 1825, makes an income of Two Hundred Pounds ready to meet the demands of the ensuing year: its finances, therefore, considering also the probability of increased resources from the accession of new members, must be considered as in a satisfactory state; and the Council have in consequence thought themselves justified in undertaking to advance the sum of Fifty Pounds, to meet a subscription which has been raised for the purpose of putting the Society in possession of a collection of Ancient Coins, valued at Two Hundred Guineas. The liberality thus called into action, has made a present to the Society which will at once give an interest to this department of the Museum, and which there is every reason to hope will have the effect of attracting many future contributions.

The Council have great satisfaction in calling the attention of the Meeting to a new source of income, appearing on the accounts which are now laid before them. Two courses

of Lectures on the sciences of Geology* and Chemistry † have been delivered on the Society's account, and a third on Zoology ‡ under its patronage, which have been attended in a manner corresponding with the anticipations expressed in the last Report, and displaying that eagerness for scientific information which had been hoped for from the public, and which it is one of the principal objects of the Society to gratify and encourage. || In the arrangements for these Lectures very considerable embarrassment was experienced, from the want of rooms adapted to the purpose of their delivery; but, even under this disadvantage, the profit derived from them, amounting to about Forty Pounds, has been sufficient to show that, if a proper Lecture Room should be built, the Lectures might reasonably be expected to pay the interest of the money laid out upon the building. The Council however submit to the Society, that it would be an object worthy of the county of York, to lend to an institution of this nature, a support which might render such a speculation unnecessary. They have some reason to believe, that a site for a Philosophical Establishment may be obtained on terms of the most liberal kind; a subscription of Three Thousand Pounds would be sufficient to raise a building that would comprise both an adequate Lecture Room and an extended Museum; and the Society has already proved, during the two years which it has existed, how capable it is of storing such a building

* By Mr. W. Smith. † By Messrs. West and George. ‡ By Dr. Harwood, F.L.S.

|| Gratuitous admission to the Chemical course, was given by the Council to several ingenious Artisans and Mechanics, who had expressed a wish to benefit by these Lectures.

with the materials of knowledge, and how desirous of encouraging, by all the means in its power, those honourable and useful studies, the cultivation of which, in their various branches, has raised to so high a pitch both the intellectual character and the commercial prosperity of this country.

Should the Meeting concur with the Council in the views it has now suggested, it is proposed that a Committee should be formed, of Members of the Society residing in different parts of Yorkshire, for the purpose of carrying those views into effect.

Encouraged by the success which attended the Lectures in the last spring, the Council have made proposals for two courses to be delivered in the present year, in the months of February and March: to one of these offers an answer has not yet been received; * the other has been accepted, and Mr. J. Phillips, a gentleman with whose attainments the Meeting are well acquainted, and to whose intelligence and industry the Society has been greatly indebted, has undertaken to deliver, in February, a short course of Lectures on the Primitive Rocks and Organized Fossils, supplementary to those which were delivered in 1824, by his relative, Mr. Smith.

In mentioning the name of Mr. Smith, the Council hope they may be allowed to express to the Meeting the satisfac-

* Since the Report was presented to the Annual Meeting, Mr. R. Dalton has been engaged to deliver a course of nine Lectures on Mechanics, Hydrostatics, Hydraulics, and Optics: and Mr. Murray a course of twelve Lectures on Chemistry.

tion they feel, in having been the means of inducing this able and experienced geologist, to resume his examination of the strata of Yorkshire; the result of which has been, a further developement of the intricate geological arrangement of the eastern part of the county, and the identification of several distinct beds in the Oolitic series, not before discriminated, with those which are known in the southern course of the strata. Mr. Smith is engaged in introducing these new observations and corrections into his Geological Map of Yorkshire; and he entertains also an intention of publishing the documents on which the colouring of that map is founded, the valuable fruits of many years of laborious investigation.

The Council, while they have paid especial attention to objects thus near at home, have not been inattentive to the principle of extending, where occasion has offered, the sphere of the Society's operations. They have embraced an opportunity of sending a collection of duplicate fossils to the Asiatic Society at Calcutta; and they are at present engaged in selecting specimens from the Yorkshire Oolitic coal field, at the request of Professor Buckland, for the author of the *Flora der Vorwelt*, Count Sternberg, to be placed in the Public Museum under his superintendence at Prague.

Upon the same principle of making the Society's acquisitions as subservient as possible to the general interests of science, the Council have lent to Professor Buckland some rare specimens, of which he wished to have drawings made for the use of himself and Mr. Conybeare; and they have promised to send some duplicates to the Museum at Oxford,

and are under similar engagements to several other scientific Institutions. The accurate arrangement of the geological and mineralogical collections, which has been completed in the last year,* has enabled the Officers of the Society to separate the duplicates which they contain; whilst it has already rendered the Museum a very instructive school to the student, and, in the Fossil department, a very compendious and useful account of the local Strata to the experienced geologist.

Having thus given a faithful statement of the resources which have been placed at their disposal, of the manner in which they have hitherto transacted the business of the Society, and of their views for the future, the Council venture to come before the Annual Meeting with a call for increased exertion. They are duly sensible of the zeal which has been already shown by the members of the Society, for the promotion of its laudable objects; and they are encouraged by their sense of that zeal, to hope that an effort will now be made, to give a higher character of utility to its exertions, to support it in the way in which such an Institution ought to be supported by this great county, and to raise it to a state of which Yorkshire may have just reason to be proud.

* The geological collection is arranged in the order of the strata, and each specimen labelled with its locality and scientific name. The minerals are arranged according to the classification of Mr. W. Phillips, in his "Introduction to Mineralogy."

THE TREASURER'S ACCOUNT.

INCOME.

	£. s. d.	£. s. d.
Balance in the Treasurer's hands on the 13th January, 1824.....	7 16 4	165 2 2
Admissions, Subscriptions, and Compositions received.....	282 0 0	67 8 6
Donation from the Earl of Tyrconnel.....	20 0 0	26 5 0
Net produce of the courses of Geological and Chemical Lectures.....	39 7 6	31 10 0
Balance due to the Treasurer.....	4 10 5½	17 17 0
		Incidents, Postage, Carriage, House-expenses, &c. 25 11 7½
		Paid to Mr. J. Phillips for assistance in the Museum..... 20 0 0
	<u>£353 14 3½</u>	<u>£353 14 3½</u>

JONA: GRAY, Treasurer.

York, Jan. 11th. 1825.

STATE OF THE SOCIETY'S FUNDS.

	£. s. d.
Admissions and Subscriptions unpaid for 1823 and 1824.....	75 0 0
Deduct balance due to the Treasurer.....	4 10 5½
	<u>£70 9 6½</u>
Surplus at the end of the year 1824....	£70 9 6½

DONATIONS

TO THE

SOCIETY'S MUSEUM AND LIBRARY.

TO THE MUSEUM.

GEOLOGY AND MINERALOGY.

1823. §

† Rev. Mr. Affleck.....	22	Fossil Plants ; Coal-Measures, Silkstone, w. r. y.
Mr. T. Backhouse.....	16	specimens, Magnesian Limestone, Durham.
† Mr. Belcher.....	33	Fossils ; Lias, Whitby, n. r. y.
* Mr. Bird.....	}	Head of fossil Crocodile, head of Ichthyosaurus, 57 bones of Ichthyosaurus, &c. Lias, Whitby, n. r. y.
† Mr. Bland.....		26	Minerals and Fossils.
* Rev. Prof. Buckland.....	}	100 Specimens of Fossils from the Oolitic series in Oxfordshire ; from Antigua, New Holland, &c.
Earl of Carlisle.....		Bufonites, & 29	other specimens ; Coralline Oolite, Castle Howard.
* Rev. W. D. Conybeare, & } * Mr. J. S. Miller..... }	17	Fossils ; Coral Rag and Lias, Wilts and Somerset.

§ Last year's Report being out of print, an account of the donations received in 1823, has been inserted under each head in the present list.— n. r. y. e. r. y. or w. r. y. denote the locality to be in the North, East, or West Riding of Yorkshire.

* Honorary Members. † Donors not Members of the Society.

Mr. Copsie.....	79 Minerals and Fossils.
† Miss Currer.....	20 Fossils and Minerals.
Mr. Danby.....	} Series of sinkings at Brownsbeck Colliery, in Colsterdale, N.R.Y. with a Section. 51 Fossils and Minerals.
Rev. W. H. Dixon.....		23 Geological specimens, Craike, N.R.Y.
Rev. B. Eamonson.....	23 Geological specimens, Magnesian Limestone, Bramham, &c. W.R.Y.
* Rev. W. Eastmead.....	40 Fossils, Kirbymoorside, &c. N.R.Y.
* Mr. Eglin.....	Ichthyosaurus, (head, vertebræ, and paddles,) & other fossils, Lias, Whitby.
† Mr. Ellison.....	Fossils, Pembrokeshire, &c.
Mr. J. L. Eyre.....	Fossil Plants and Shells, Coal-measures, Chesterfield.
† Mr. Fawkes (<i>Farnley</i>).	Gigantic Phytolithus, in Sandstone, Coal-measures, W.R.Y.
Mr. Hawksworth Fawkes.	12 fossil Plants, Coal-measures, Durham.
Rev. J. Graham.....	57 Geological specimens and Minerals.
* Rev. Robert Halifax....	48 Fossils, Trans. Limest. Salop, &c.
† Mr. J. Hearon.....	Agate : Oberstein.
* Professor Henslow.....	33 Specimens of Trap, &c. Anglesea.
Mr. Hepworth.....	216 Minerals.
† Mr. Jackson.....	12 Minerals.
Mr. H. W. Hird.....	} 51 Fossil Plants, &c. Low Moor, W.R.Y. and scoriæ containing Metallic Titanium.
Rev. F. Kendall.....		Fossil Shells, Scarbro', N.R.Y.
Mr. W. Leatham.....	Fossil Plants, Coal-measures, W.R.Y.
Mr. Marshall.....	73 Alpine Rocks and foreign Minerals.
Mr. Meynell (<i>Friarage</i>).	21 Foreign Minerals.
† Dr. Murray.....	Sulphate of Strontian, Knaresbro', W.R.Y.

- † Dr. Murray Sulphate of Strontian, Knaresbro', W.R.Y.
- † Mrs. Norcliffe Fossils, Coralline Oolite, Langton, E.R.Y.
- * Mr. Pickering 116 Fossils, Coralline Oolite, Malton.
- † Dean of Ripon 14 Minerals, Royal Mines, Spain.
- Mr. Salmond Series, illustrating a Memoir on Holder-
ness, & 35 other Geological specimens.
- † Rev. S. Sharp Polished Muscle-bed Marble, Coal-
measures, Wakefield, W.R.Y.
- † Mr. H. F. Smith Fossils & Minerals, Mag. Limest. Durham.
- Rev. Sydney Smith Fossils, Inf. Oolite, Hutton Ambo, N.R.Y.
- Rev. W. Smith 16 Foreign and British Marbles.
- Lord Stourton 77 Alpine & Vesuvian Rocks & Minerals.
- * Rev. W. Taylor Fossil shells, Lias, Wilton, N.R.Y.
- Mr. Thorpe { Two portions of the upper jaw, and a
section of the vertebræ of Ichthyosaurus,
four vertebræ with ribs of Plesiosaurus,
lower jaw of Crocodile, & large diluvial
mass of Madrepore Limestone; Whitby.
—Many other Fossils and Minerals.
- Mr. G. Todd Fibrous Carb. of Lime, Collingham, W.R.Y.
- Mr. D. Tuke 40 Fossils and Minerals.
- Mr. S. Tuke 31 Fossils and Minerals.
- Capt. F. V. Vernon, R.N. { 25 Minerals; mines of Copiapo, in
Chili, and other parts of South America;
Africa, St. Helena, and Conception.
- Rev. L. V. Vernon 31 Geological specimens, chiefly
Northumberland.
- Rev. W. V. Vernon { Specimens of Ichthyosaurus and Plesio-
saurus, Whitby. 450 other fossils.
57 Swedish and Alpine Minerals.
- Rev. C. Wellbeloved 13 Fossils.
- * Archd. Wrangham Fossils, Chalk, Hunmanby, E.R.Y.
- * Rev. G. Young Series of Rocks of Yorkshire Coast.

1824.

- Mr. W. H. Alexander 3 Minerals, Scotland and Cumberland.
- † Mr. Allis { 56 Fossils, London Clay, Green Sand,
Oolites, Lias, and Transition Limestone
of southern counties. 8 Minerals, Devon,
Cornwall, &c.
- Mr. T. Backhouse Fossils, Magnesian Limestone, Durham.
English and Foreign Minerals.
- † Mr. Bland 32 Minerals.
- † Mr. Brewerton Phosphate of Iron, Bawtry, W. R. Y.
- † Mr. Briggs Minerals, Dufton mines & Derbyshire.
- † Mr. Camidge Polished Agates.
- Mr. Cholmeley Fossils, Inf. Oolite, Brandsby, N. R. Y.
- † Mr. Clemesha Fossils, Chalk Marl, Alton, Hants.
- Mr. Copsie 22 Fossils, Coralline Oolite, Malton,
N. R. Y. & other Fossils and Minerals.
- Rev. R. Croft 2 Minerals.
- Rev. T. Croft Quartz crystallized in a geode.
- † Miss Croft 4 Minerals.
- † Mr. Cumberland,
Hon. M. G. S. { 51 Fossils, Chalk, Kent and Sussex;
Oolites, Lias, and Coal-measures, Somers-
set and Gloucester. 11 Minerals.
- Mr. Danby 32 English and Foreign Minerals.
- Mr. Dealtry Fossil Shells and Plants, Coal-measures,
Wakefield, W. R. Y.
- Mr. R. Denison Pseudomorphous Galena : Cumberland.

- Rev. B. Eamouson } Barytes, &c. in Magnesian Limestone,
Bramham, w.r.y. 15 Rock specimens,
Isle of Man.
- † Mr. Ellison Fossil Shells, Diluvium, Copgrove, w.r.y.
- Mr. Wilmer Field Pecten Papyraceus and Ammonites, in
Coal Shale, Heaton and Shipley, w.r.y.
- Dr. Goldie Siliceous casts of Shells in Mountain
Limestone, Northumberland.
- Rev. John Graham } 40 Fossils, from the beds above the
Chalk, Chalk, and beds between the
Chalk and Oolites, Isle of Wight,
Folkstone, and Dover.
- * Dr. Greville Fossil Plant, Edinburgh Coal-field.
- * Rev. R. Halifax Ammonite, inf. Oolite, Gloucestershire.
- † Mr. Hamerton, Jun Fossils, Mountain Limestone, Craven.
- * Mr. Hinderwell Fossils, Coralline Oolite, Malton, n.r.y.
- Hon. and Rev. H. Howard. Trilobite, Transition Limestone, Llan-
deilo, S. Wales.
- † Mrs. Howard (*Corby Castle*) 2 Minerals from Italy.
- † Mrs. Jarrett Fossil Plants, and Calcareous Spar in
coal, Camerton, Somerset.
- † Mr. J. Lakeland Fossil Shells, Chalk, ———.
- Mr. Marshall } Green Carbonate of Copper in Magn.
Limestone, Newton Kyme, w.r.y.
Shells, &c. in Trans. Limestone, Dudley.
Minerals, Switzerland, Italy, & Iceland.
- * Mr. Meade } 50 Fossils, Chalk, Gr. Sand, Coral rag,
Cornbrash, & Coal-measures, Wilts &
Somerset. Rock specimens containing
fossils, North America. 28 English
and N. American Minerals.

- Mr. J. Mills..... Non-descript Fossil bivalve Shell :
Bridlington, E.R.Y.
- † Dr. Murray..... Two varieties of Carbonate of Strontian :
Merryfield Mine, Pately, W.R.Y.
- Rev. B. Newton..... 25 Fossils : Green Sand, Cornbrash, and
Kelloways Rock, Wilts. 5 Minerals.
- Mr. Pemberton..... Rocks and Minerals, Cumberland.
- * Mr. J. Phillips..... } 38 species of fossil Shells and
Zoophytes: Green Sand, Coralline
Oolite, and Cornbrash, Somerset.
- * Mr. Pickering..... } Upper jaw of Fossil Crocodile ; bones
and teeth of Saurian animals ; and 95
specimens added to his former donation
of Fossil Shells, &c : all from the
Coralline Oolite, Malton, N.R.Y.
- † Mr. Plows, York..... Fossil Plants : Mexbro', W.R.Y.
- † Mr. Preston..... } Fossil Shells and Mineral Tar, from
the "hard band" stratum of the Moun-
tain Limestone : Flasby, Craven. W.R.Y.
- † Rev. T. Rankin..... Phosphate of Iron, from a Tumulus.
- † Mr. L. Robinson..... Vertebra of Ichthyosaurus, and Belem-
nite : Lias Clay, Sanctou, E.R.Y.
- Mr. Salmund..... } 120 Fossils, Yorkshire. 20 Specimens of
Grauwacke, &c. Cumberland. 170 Rocks,
Scotland and Hebrides. 15 Minerals,
Cumberland and Scotland.
- † Rev. James Serjeantson. Fossil Plants : Wakefield, W.R.Y.
- * Mr. W. Smith..... } 158 Fossils and Rock specimens : Wilts,
Somerset, Lincolnshire, Westmoreland,
and Cumberland.
- * Mr. W. Smith and
* Mr. Phillips..... } 193 Fossils and Rock specimens, from
various parts of Yorkshire.

- † Mr. I. Stickney Fossil wood, Scarbro' Beach.
- † Rev. E. Stillingfleet Astræa in chert, Tisbury, Wilts.
- Mr. Strangways 17 Minerals, Devonshire, &c.
- Mr. Eust. Strickland Fossils, Oolites and Lias, Lincolnshire.
- † Miss A. Sympson Ammonite, Bridlington Beach, E. R. Y.
- † Miss E. Sympson 20 Agates, &c. Yorkshire coast.
- * Rev. W. Taylor 22 Fossils, Transition Limestone,
Herefordshire and Wales.
- † Mr. J. Thompson Fossils, Chalk, Yorkshire Wolds.
- Mr. Thorpe Selenite, Bonby, Lincolnshire.
- Mr. D. Tuke Geological specimens, Yorkshire.
- Mr. S. Tuke Fossil Shells, Dover and France.
- † Countess of Tyrconnel 22 Fossil Shells, France and Pyrenees.
3 English Minerals.
- † Rev. C. V. Vernon } Fossils from upper beds of Mountain
Limestone and Shale, hardened by
contact with Trap, Northumberland.
- Rev. W. V. Vernon } Fossils, Calcareous grit, Birdsall,
E. R. Y. and diluvial gravel, York.
Trilobite with shells, Transition Lime-
stone, Shropshire. Fossils, in Transition
Slate, N. Wales and Westmoreland.
Rock specimens and Minerals, primary
district, Cumberland.
- † Mr. S. Waring Ammonites Banksii, Sherborne, Dorset.
- * Mr. West Carbonate of Strontian, Pately, W. R. Y.
- † Miss Wheeler Fossil Palates, Chalk, Hitchin, Herts.
- † Mr. Witham, M. W. S. 262 Rocks of various districts of Scotland.

MINERALS, &c. PURCHASED BY THE SOCIETY.

1823.

- 140 Fossil specimens, including numerous remains of Ichthyosaurus and Plesiosaurus ; Lias, Whitby.
 160 Foreign and British Minerals.
 16 Rocks and Minerals, Zetland.

1824.

A Collection purchased in Germany, consisting of—

- 209 specimens of the Primitive, Transition, and Secondary Rocks, of the district of the Harz Mountains.
 60 specimens of Basaltic and Amygdaloidal Rocks, and Minerals, of the district of the Rhine and other parts of Germany.
 21 specimens of the Volcanic Rocks and Minerals of Rieden and Niedermennich, near Laach, on the Rhine.
 40 specimens of the Volcanic Rocks of Iceland, and products of the hot springs of the Geyser.
 20 specimens of the Volcanic Rocks, and products of the hot springs, of St. Michael's, Azore Islands.

Fossil Crocodile, head, vertebral column, &c. Lias, Whitby.

DONATIONS OF FOSSIL BONES, FROM CAVES, &c.

1823.

Mr. Jas. Atkinson.. 144	} { 250 Fossil Bones, Teeth, &c. of Elephant, Hippopotamus, Rhinoceros, Ox, Stag, Hyæna, Fox, Water-rat, & Widgeon, (the bones and teeth of the Hyæna amounting to 122,) with specimens of diluvian mud and stalagmite ; Kirkdale Cave, N. R. Y.
Mr. Salmond..... 43	
Mr. Thorpe..... 36	
H. Atcheson, M. B.. 13	
* Rev. W. Eastmead.. 8	
Rev. W V. Vernon.. 6	

* Dr. Alderson,.....	Portion of Elephant's tusk, Cliff, Atwick, E. R. Y.
† Rev. S. Creyke	21 Bones of Hyæna, Horse, and Ox : Oreston caves, Plymouth.
Mr. Salmond.....	Portion of Elephant's tusk, Rugby.
† Mr. Shepherd.....	Portion of Elephant's tusk, gravel, Brandsburton, E. R. Y.
Mr. Alderman Smith.....	Horns of Stag, Pocklington, E. R. Y.
Mr. Thompson (<i>Kirby-Hall</i>).....	Portion of Elephant's tusk, gravel, Overton, near York.
Mr. Thorpe	Tooth of Elephant, ———.
Rev. W. V. Vernon.....	Teeth of Elephant and Rhinoceros, clay, Bridlington, E. R. Y.

1824.

Mr. Rookes Crompton...	Bones from chalk gravel, France.
† Mrs. Jarrett.....	Bones & teeth, Banwell cave, Mendip.
† Mr. Lakeland.....	Bones and teeth, Kirkdale cave.
Mr. Salmond	Bones and teeth of Horse ; chalk gravel, Hessle, E. R. Y.
Rev. C. Sykes	Horn of Stag, Scampston, and Elephant's tooth, Holderness, E. R. Y.
Rev. W. V. Vernon.....	Bones and teeth of Horse ; Hessle.
Mr. Danby.....	Occiput and teeth of gigantic Bos, peat bog, Swinton, N. R. Y.
Mr. Strangways.....	Horn of gigantic Bos, peat bog, Alne, N. R. Y.

RECENT ZOOLOGY AND BOTANY.

1823.

Mr. Allen	Skull of Polar Bear.
† Miss Atkinson.....	300 Insects, East Indies. Collection of dried Plants, Scarborough.
† Mr. Jas. Backhouse	Collection of dried Plants.
Mr. T. Backhouse.....	200 British Insects.
* Mr. Bean.....	51 species of Shells, Scarborough.
Dr. Beckwith.....	Tooth of the Narwhal.
Mr. Danby.....	Skull of Asiatic Elephant of large size.
† Mr. Alderman Hearon..	Chinese Pheasant, male and female.
Mr. Henwood.....	Skull of Bear. Wings of Flying Fish.
Mr. Hornor.....	Skull of Walrus.
Mr. G. Strickland.....	9 Birds, and 50 Insects, Canada.
Capt. F. V. Vernon, R.N.	Collection of woods, Mauritius.
Rev. W. V. Vernon.....	Collection of tropical Shells. 4 tropical Fishes.

1824.

Mr. Jas. Atkinson.....	} Female Pheasant, the plumage changing to that of the male.—Egg of the Ostrich.—Collection of articles of the Vegetable Materia Medica.
† Miss Atkinson.....		Two Diamond Beetles.
Mr. T. Backhouse	Many additions to his collection of British Insects.
Rev. R. Croft.....	} Tooth of the Narwhal.—Plate from the palate of the Whale.—Head of Dog-fish.—Seeds & seed-vessels of various plants.

Rev. B. Eamsonson.....	Concretion from a horse.
Rev. J. B. Graham.....	68 Chinese and other Insects.
† Mr. J. E. Gray, F.L.S.	28 Species of British and E. I. Shells.
Hull Philosophical Society.	Asteria caput-medusæ. 27 Insects.
† Mr. R. Markham.....	Skeleton of Animal of the class Rodentia : Cape of Good Hope.
Mr. Salmond.....	Skull of the Dolphin.
Mr. Ald. Smith.....	Cancer horridus : Whitby coast.
* Rev. J. Smyth.....	26 Australasian Birds.
Mr. G. Strickland.....	Pelicanus Bassanus, Frith of Forth,
† Miss. E. Sympson.....	55 Species of tropical Shells.

COLLECTION OF
ZOOLOGY AND COMPARATIVE ANATOMY,
DEPOSITED IN THE SOCIETY'S MUSEUM,
BY MR. ATKINSON. *

MAMMALIA.

Complete Skeletons of Monkey, Coatimundi, Weasel, Ichneumon, Dog, Lion and Lioness, Leopard, Cat, Mole, Opossum, Badger, Rat, Mouse, Rabbit, Deer.—~~Fixed~~ *Specimens* of the common and long-eared Bat.—*Crania* of Monkeys, Bat, Hedgehog, Black and Polar Bears, Raccoon, Otter, various Dogs, Hyæna, Bengal and Hunting Tigers, Seal, Morse, Hare, Rabbit, Pig, Babiroussa, Horse, Cervus Axis, Fallow Deer, four-horned Ram, common Sheep, Ox. Cranium of Wolf, dug up at York. Cranium of Heifer, dug up at Pocklington.

* It is the intention of the proprietor of this Collection to enlarge it as opportunities occur; and to render it as complete as possible, as an illustration of Physiology and Zoology, and a standard of comparison for Fossil Osteology.

Incisor Teeth and tusks of Hippopotamus and *Tusks of* Wild Boar.—Teeth of Deer, Horse, and other herbivorous animals. Sections, transverse and longitudinal, of the teeth of the Horse, shewing the plates of enamel, at different ages.—Horns of Buffalo, Deer, Chamois, &c. Horn of Goat, dug up at York.—Vertebral column of Horse, Deer, &c. Ankylosed vertebral column of a horse. Pelvis of Deer, Ox, &c. Detached bones of various Animals.—Iris and Cornea of Horse. Stomachs of carnivorous and ruminant Animals. Stomachs and viscera of Monkeys. Vesica of Opossum. Fin of Seal.—Preparations illustrating the structure of the Eye and Ear, the growth of the bony fabric, and the Vascular System.

Complete sets of the bones
BIRDS.

Skeletons of Swan and Owl; Skeletons of Hawks, connected by their ligaments.—Crania of Duck, Heron, different species of Gulls, Magpie, Hawks, Buzzard, Royston and Carrion Crows, &c.—Bony Iris of a Bird of Prey.—Preparations of the Cerebrum, Cerebellum, &c. of small birds.

REPTILES.

A young Crocodile. Whip-snake.—Upper and lower jaw of Alligator. Upper jaw of Crocodile. *Skull* of Turtle. Cranium of Turtle. Skeleton of Frog. Heart of Turtle injected, shewing the double aorta. Lacteal vessels in the mesentery of the Turtle. Part of the jaw and teeth of a Snake.

FISHES.

Skull of the Cod-fish. Galeated Skull of the "Light-horseman," a fish of Botany Bay. Jaws of Wolf-fish, of several Sharks, and other Fishes. Beak of the Sword-fish. Vertebral column of the Shark.

ANTIQUITIES, COINS, &c.

1823.

- H. A. Atcheson, M.B.. Mummy of the Ibis.
- Mr. Jas. Atkinson Roman, British, & Monastic Antiquities.
- Mr. P. Atkinson A Roman Meta, (camp at Adel.)
- † Mr. Bland Silver and copper gilt Bowl, probably of
the xivth century, &c.
- Rev. J. Graham Celt. Sacrificial Sculpture, from the
Roman wall. British Stone Axe.
- † Mr. Jackson Roman Bracelet & Ear-rings, (near York.)
- † Mr. Knowlson Urns, Amphoræ, &c, (York.)
- Mr. Pemberton Fragments of Tessellated Pavement, &c.
- † Mr. Robinson Monastic Seal.
- Rev. C. Sykes Roman Cinerary Urns, (Malton.)
- Mr. Thorpe Roman Amphora. British stone Axe.
Flint Adze from Denmark.
- † Mr. G. Thorpe Roman figure, in brass, (York.)
- Mr. G. Todd Ancient Sculptures, (York.)
- Mr. D. Tuke Figure in wood, (Cleveland.)
- † Mr. R. Tuke Celt, (Stittenham.)
- Rev. W. V. Vernon Moulds of Roman Coins, (Wakefield,) &c.
-
- H. A. Atcheson, M.B.. Chinese Compass.
- Mr. J. F. Brown 100 casts of gems after the Antique.

- Mr. Burdekin..... Ancient Cross-bow, (Sherwood Forest.)
 † Mr. W. Hornby..... Ivory Steelyards.
 Capt. F. V. Vernon, R.N. Idol, and other articles from the South
 Sea Islands.

1824.

- † Miss Atkinson..... Jet beads, (Mount, York.)
 Dr. Beckwith..... Indian Sandals.
 Mr. Bell..... Malabar MS. on Palm leaves, in the
 Tamul language.
 † Mr. Blanchard..... Small Hindoo Idol in copper.
 † Mr. Brewerton..... Flint Adze, (Bawtry.)
- Rev. R. Croft..... { Roman Figure in brass, of Bellona (York.)
 —Another, (Pompeii.)—Another, and
 a bust, (place unknown.)—Silver Fibula.
 —Two lamps.—Tablet in bronze.—
 Ancient British horse-shoe, (York.)—An-
 cient British silver pendant.—5 ancient
 rings.—Small Equestrian figure in mail
 armour: (15th century.)—Monastic seal.
 War club, from Sandwich Isles, &c. &c.
- * Mr. R. Dalton..... Seal of St. Mary's Abbey, York.
 † Mr. J. Facey..... Chinese Dagger.
 Mr. Henwood..... 2 Indian Armlets in Ivory.
 † Mr. Knowlson..... Chinese Fan.
 † Mrs. Pemberton..... Chinese Umbrella.
 † Dean of Ripon..... Tile from the Alhambra, with an Arabic
 inscription. Chinese Padlock.
 Rev. C. Sykes..... Ancient Spur, (Eddlethorpe, E.R.Y.)
 † Mr. J. Settle..... War club from Berbice.

COINS AND MEDALS.

1823.

Mr. P. Atkinson.....	4 Roman silver coins, (York.)
† Mr. Baines	Allectus, <i>æ</i> . (York.)
Dr. Beckwith.....	3 Roman and 2 English coins.
† Mr. J. Browne.....	Valens, <i>æ</i> . (York.)
† Rev. T. Comber.....	4 Roman, 4 Indian, & 2 English coins.
Mr. Copsie.....	8 Roman and several early English coins.
Rev. Archdeacon Eyre...	2 Roman, 5 Saxon and English coins.
Dr. Goldie.....	5 Roman brass coins, (York.)
† Messrs. Hardman.....	2 Roman and 9 modern coins.
Mr. Meynell.....	2 Roman brass coins, (Naples.)
Mr. Alderman Smith....	Carausius, <i>æ</i> . (York.)
Rev. W. V. Vernon....	2 Roman, and 10 English coins.
† Mr. C. Watson.....	6 Roman coins, (York.)

1824.

Rev. Archdeacon Eyre....	7 Saxon and early English Silver Coins, (Conisborough.)
† Mr. J. Thompson	3 Roman Coins.
Mr. Wharton.....	M. Antoninus, <i>arg</i> . (Aberford.)

A Collection consisting of about
 750 Roman brass Coins;
 90 Roman silver Coins;
 24 English gold Coins and Me-
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 385 Saxon, Norman, and English
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* When this large Collection shall be arranged, a Catalogue of the Society's
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DONATIONS TO THE LIBRARY.

1823.

- | | |
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| Mr. Jas. Atkinson..... | Renerii Tabulæ Medicææ. |
| * Rev. Prof. Buckland... | Reliquiæ Diluvianæ. |
| * Mr. Clift..... | On the fossil bones of Oreston, (from Geological Transactions.) |
| * Rev. W. D. Conybeare. | Conybeare and Phillips's Geology of England. |
| * Mr. De la Beche..... | Papers from Geological Transactions. |
| Dr. Goldie..... | <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 10px;"> Edinburgh Philosophical Journal, vols. 1 to 8.—Kirby and Spence's Entomology, 2 vols.—Burrow's Conchology.—Jameson's Mineralogy, 3 vols.—Jameson's Characters of Minerals.—Lamarck, Philosophie Zoologique, 2 vols.—Kendall's Scarborough Fossils.—Blumenbach's Comparative Anatomy, by Lawrence. </div> |
| * Professor Henslow..... | Syllabus of Lectures on Mineralogy. |
| * Dr. Hooker..... | Flora Scotica, Edin. 1823. |
| Mr. Meynell (<i>Friarage</i>). | Wernerian Society's Memoirs, v. 1, 2, 3. |
| Mr. G. Meynell..... | Haüy's Natural Philosophy, 2 vols. |
| * Mr. J. S. Miller..... | Natural History of the Crinoidea. |
| * Mr. W. Phillips..... | Introduction to Mineralogy.—Lectures on Astronomy. |

- Mr. Ryland Newton's Opticks, and Principia, by Motte.
- Mr. Salmond..... Haüy, Minéralogie, 4 vols. and Atlas.
- Mr. G. Todd..... Evelyn's Terra.
- Rev. W. V. Vernon..... Molinet, Numismata Pontificum.—Mantell's Sussex.—Hill on Fossils.
- Rev. C. Wellbeloved..... Kirwan's Mineralogy, 2 vols. and Geological Essays.
- Mr. Wemyss..... Lewin's British Birds, 8 vols.
- York Subscription Library. Catalogue of the Y. S. Library.
- * Rev. G. Young, and } Geological Survey of the Yorkshire
* Mr. Bird..... } Coast.

1824.

- Society of Antiquaries, }
Newcastle-upon-Tyne.... } Archæologia Æliana, 4to. Newc. 1822.
- † Mr. Atkinson (*Leeds*).. Compendium of British Ornithology.
- * Mr. Clift..... Account of a singular case of recovery, &c.
- † Mr. Fawkes Sowerby's Mineral Conchology, 70 nos.
- Dr. Goldie..... { Davy's Chemical Philosophy.—Davy's Agricultural Chemistry.—Murray's Chemistry, 3rd Edit. 4 vols.—Wells's Essays on Dew, &c.—Kelly on Weights and Measures.—Smith's Introduction to Botany.—Smith's Flora Britannica, 3 vols.—Smith's Compendium Floræ Britannicæ.—Young's History of Whitby, 2 vols.—Hinderwell's Scarbro'.—Hargrove's Knaresbro'.—Le Noir, Monumens Français.

- Dr. Greville..... Flora Edinensis. Edin. 1824.
- Mr. Henwood..... } Mionnet de la rareté et du prix des
 médailles Romaines.—Dynasties des
 Souverains.—Addison on Medals.
- Mr. Marshall..... Pujoux, Minéralogie des gens du monde.
- † Mr. Murray, F.S.A. &c. On the corolla of flowers,—On the
 ascent of spiders.
- Mr. Pritchett..... Plans, &c. of Wakefield Lunatic Asylum.
- * Mr. Scoresby..... Voyage to the Northern Whale-fishery.
- Mr. Sharp..... Inigo Jones on Stonehenge. Lond. 1655.
- Mr. E. Strickland..... } Bewick's British Birds.—Montagu's
 Ornithological Dictionary.—Cuvier's
 Animal Kingdom, by Griffith, Parts 1,
 2, 3, 4.
- † Mr. Thackrah..... Lectures on Digestion and Diet. Leeds,
 1824.
- Mr. Thorpe..... Agricola de re metallicâ, fol. Basil. 1561.
- Rev. W. V. Vernon..... } Neri de arte vitrariâ, Amstel. 1686.—
 Park's History of Hampstead.—Lettsom
 on the Tea-tree.

BOOKS PURCHASED.

1823.

- Allan's Mineralogical Synonymes, 8vo.
- Beudant, Voyage Géologique en Hongrie, 3 tomes, 4to. et Atlas.
- Boué, Essai Géologique sur l'Ecosse, 8vo.
- Brande's Manual of Chemistry, 3 vols. 8vo.
- Brookes's Elements of Crystallography, 8vo. (two copies.)
- Cleaveland's Mineralogy and Geology, 2 vols. 8vo.
- Cuvier's Theory of the Earth, with illustrations by Jameson, 8vo.
- Cuvier et Brongniart, Description Géologique des environs de Paris, 4to.
- Conybeare & Phillips's Geology of England, Part 1. (duplicate copy.)
- Farey's Mineral Survey of Derbyshire, 8vo.
- Foster on the Section of the Strata from Newcastle to Cross Fell, 8vo.
- Greenough's Memoir of a Geological Map of England, 4to.
- Greenough on the principles of Geology, 8vo.
- Macculloch's Geological Classification of Rocks, 8vo.
- Millington's Epitome of Natural Philosophy, Part 1. 8vo.
- Miller, Illustratio Systematis Sexualis Linnæani, 3 vols. folio.
- Parkinson's Organic Remains, 3 vols. 4to.
- Parkinson's Introduction to Organic Remains, 8vo. (two copies.)
- Pallas, Voyages en Russie et dans le nord de l'Asie, 5 tomes, 4to. et Atlas.
- dans le midi de l'Empire de Russie, 2 t. 4to. et Atlas.
- Peck's History of the Isle of Axholme, 4to.
- Peck's Topography of Thorne, &c. 4to.
- Samouelle's Entomologist's Compendium, 8vo.
- Thomas on the Mining Districts of Cornwall, 4to.
- Thompson's Ocellum Promontorium, and Ravenspurne, 8vo.
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1824.

- Brongniart et Desmarest, Crustacés fossiles, 4to.
 Cuvier, Règne Animal, 4 vols. 8vo.
 De la Beche's Geological Memoirs from the Annales des Mines, 8vo.
 Evelyn's Sylva, by Hunter, 4to.
 Humboldt on the Superposition of Rocks in both Hemispheres, 8vo.
 Lamarck, Planches des Coquilles fossiles de Paris, 4to.
 Pander und Dalton, Skelete der Pachydermata, folio.
 Smith's Strata Identified, 4to. (two copies.)
 Smith's Stratigraphical System of Fossils, 4to.

TRANSACTIONS OF SOCIETIES, & PHILOSOPHICAL JOURNALS.

- Philosophical Transactions, to 1750, abridged by Lowthorp, &c. 11 v. 4to.
 Philosophical Transactions, 1751 to 1800. 50 vols. 4to.
 Transactions of the Geological Society, First Series, 5 vols. 4to.

Philosophical Transactions, from 1823.

Transactions of the Geological Society, Second Series.

Transactions of the Cambridge Philosophical Society.

Memoirs of the Wernerian Society.

Transactions of the Royal Geological Society of Cornwall.

Transactions of the Academy of Philadelphia.

} In conti-
 nuation.

Edinburgh Philosophical Journal, (by Jameson,) *quarterly*.

Quarterly Journal of Science and the Arts, published at the Royal
 Institution, (by Brande.)

Annals of Philosophy, (by Phillips,) from January 1823, *monthly*.

Edinburgh Journal of Science, (by Brewster,) *quarterly*.

Zoological Journal, *quarterly*.

Silliman's American Journal.

WORKS PUBLISHING IN PARTS OR NUMBERS.

- Cuvier (F.) et Geoffroy St. Hilaire, *Histoire Naturelle des Mammifères*, folio.
- Cuvier (F.) *des Dents des Mammifères, considérées comme caractères Zoologiques*, 12mo.
- Cuvier (G.) *Recherches sur les Ossemens Fossiles*, 4to.
- Cuvier's *Animal Kingdom*, enlarged, by Griffith and others, 8vo.
- Férussac, *Histoire Naturelle des Mollusques Terrestres et Fluviales*, folio.
- Reliquiæ Antiquæ*, (Etchings of Antiquities in Yorkshire,) by J. Browne, 4to.
- Rhode, *Pflanzenkunde der Vorwelt*, folio.
- Schlotheim, *Flora der Vorwelt*, 4to.
- Sowerby's *Mineral Conchology*, 8vo. (two copies.)
- Sternberg, *Flora der Vorwelt*, folio.

 MAPS AND SECTIONS PURCHASED.

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- Greenough's *Geological Map of England and Wales*,
- Smith's *Geological Map of Yorkshire*.

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- Jeffery's twenty-sheet *Map of Yorkshire*.
- Knox's *Map of the Vicinity of Scarborough*.
- Smith's *Geological Map of England and Wales*.
- *Geological Sections of England*.

DONATIONS OF CASTS, DRAWINGS, PRINTS, AND MAPS,

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- + Mr. J. Browne..... Etchings of Roman Sculpture, &c. (York.)
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- * Rev. Prof. Buckland.... Print of fossil skeleton of *Megatherium*,
(Buenos Ayres.)
- Rev. B. Eamson..... Engraving of fossil Elk's skull and
antlers, (Isle of Man.)
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(Edinburgh coal-field,) & of Belemnites,
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- *Edmonstone, Laurence, M.W.S. *Balta Sound, Zetland.*
- *Eglin, Joseph, *Hull.*
- Ellingworth, Robert, *York.*
- Ellis, Rev. Robert, *York.*
- Ellison, Richard, Jun. *Beverley.*
- Eyre, Charles, *York.*
- Eyre, J. L. *York.*
- Fawkes, Hawksworth, *Hawksworth.*
- Field, J. Wilmer, *Heaton.*
- *Fitton, W. H. M.D. F.R.S. M.G.S.

- Flower, Rev. W. Jun. *York.*
- Fox, Rev. T. L. *Bramham.*
- *George, Edward Sanderson, *Leeds.*
- Goldie, George, M.D. *York.*
- Graham, Rev. John, *York.*
- Graham, Rev. J. B. *York.*
- Graham, Rev. George, *York.*
- *Graham, Robert, M.D. F.R.S.E. *Prof. of Botany, Edin.*
- Gray, Jonathan, *York.*
- *Greenough, G. B. F.R.S. M.G.S. *London.*
- *Greville, R. Kaye, LL.D. F.R.S.E. *Edinburgh.*
- *Griscom, Professor, *New York.*
- Howard, Hon. and Rev. Henry, *Castle Howard.*
- *Humboldt, Baron Alexander.
- *Halifax, Rev. Robert, *Standish, Gloucestershire.*
- Hamerton, James, *Hellifield.*
- *Henry, William, M.D. F.R.S. *Manchester.*
- *Henslow, J. Stevens, F.L.S. M.G.S. F.C.P.S. *Professor
of Mineralogy, Cambridge.*
- Henwood, Henry, *York.*
- Hepworth, J. D. *York.*
- *Heuland, Henry, *Foreign Sec. Geol. Society, London.*
- Higgins, Godfrey, Jun. *Skellow Grange.*
- Hill, Frederick, *York.*
- *Hinderwell, Thomas, *Scarborough.*
- Hird, H. W. *Low-Moor House.*
- *Hodgkinson, Rev. H. *Audley-End, Essex.*
- *Hooker, W. J. LL.D. F.R.S. F.S.A. *Regius
Professor of Botany, Glasgow.*

- Hornby, Thomas, *Pocklington.*
- Hornor, Benjamin, *York.*
- Hustler, John, *Undercliffe.*
- Hutton, John, *Marske.*
- Johnstone, Sir John V. B. Bart. *Hackness.*
- *Jameson, Robert, F.R.S.E. *Regius Professor of Natural History, Edinburgh.*
- Kendall, Rev. Frederick, *Riccall.*
- Kenrick, Rev. John, *York.*
- *Knight, Arnold, M.D. *Sheffield.*
- Knowles, George, *Lucan House.*
- Langdale, Hon. Charles, *Holme Hall.*
- Lowther, Sir John, Bart. M.P. *Swillington-House.*
- *Latrobe, Rev. C. J. *London.*
- Lawson, Andrew, *Boroughbridge-Hall.*
- Lawton, George, *York.*
- Leatham, William, *Heath.*
- Milton, Viscount, F.R.S. F.S.A.
- Macdonald, Lord.
- Milner, Sir W. M. Bart. *Nun-Appleton.*
- *Macculloch, John, M.D. F.R.S. M.G.S.
- *Macgregor, Sir James, F.R.S. *London.*
- Markham, Rev. Archdeacon, *Bolton Percy.*
- *Marshall, John, *President of the Philosophical and Literary Society of Leeds.*
- Marshall, William, M.G.S. M.W.S. *Newton-Kyme.*
- Mason, Thomas, *Copt-Hewick.*

- *Meade, Thomas, *Chatley, Somerset.*
 Meynell, George, *York.*
 Meynell, Thomas, *Friarage, Yarm.*
- *Miller, J. S. A.L.S. *Bristol.*
- *Miller, Patrick, M.D. F.R.S.E. *Exeter.*
 Mills, John R. *York.*
 Mills, Joshua, *York.*
- *Montgomery, James, *President of the Literary and
 Philosophical Society of Sheffield.*
- *Moorsom, Richard, Jun. *President of the Literary and
 Philosophical Society of Whitby.*
- *Necker, Louis Albert, *Geneva.*
 Newsham, Rev. James, *York.*
 Newton, Rev. Benjamin, *Wath.*
- *Noehden, G.W. LL.D. F.L.S. *British Museum.*
- Petre, Hon. Edward, *Stapleton Park.*
- *Parry, Charles Henry, M.D. *Bath.*
- *Parry, Capt. W. E. R.N. F.R.S.
 Pemberton, John, *York.*
- *Phillips, John.
- *Phillips, William, F.L.S. M.G.S. *London.*
 Pickard, Rev. W.L. *York.*
- *Pickering, Robert, *Malton.*
 Prest, Edward, *York.*
 Pritchett, J. P. *York.*
- Read, Rev. T. C. R. *Sand-Hutton.*
- *Richardson, Rev. —, *Farley, Somerset.*
 Ryland, William, *York.*

- Stourton, Lord.
- Stourton, Hon: Philip, *Middlethorpe.*
- Salmond, William, M.G.S.
- Sanderson, Thomas, *York.*
- Sandwith, Thomas, *Beverley.*
- *Scoresby, William, Jun. F.R.S.
- *Sedgwick, Rev. A. F.R.S. M.G.S. F.C.P.S. *Woodwardian Professor, Cambridge.*
- *Selby, P. J. *Twizel House, Northumberland.*
- Sharp, Richard Hey, *York.*
- Smith, Rev. Sydney, *Foston.*
- *Smith, William.
- Smith, Thomas, *Huntington.*
- *Smyth, Rev. J. *Kirbymoorside.*
- *Soret, M. *Geneva.*
- Spencer, Isaac, Jun. *Poppleton.*
- Strangways, Edward Swainston, *Alnc.*
- Strickland, George, M.W.S. *Newton, Malton.*
- Strickland, Eustachius, *York.*
- Sykes, Rev. Christopher, *Rooss.*
- Sympson, Robert, *York.*
- Tyrconnel, Earl of.
- Taylor, Edward, *Easthorpe.*
- Taylor, Michael, *York.*
- *Taylor, Rev. William.
- Thompson, Paul Beilby, *Escrick.*
- Thompson, George Lowther, M.P. *Sheriff-Hutton.*
- Thompson, Richard J. *Kirby Hall.*
- Thompson, Rev. Robert S. *Bilbrough.*
- Thorpe, Anthony, *York.*

- Todd, George, *York*.
- *Traill, T. S. M.D. F.R.S.E. *Liverpool*.
- Tuite, J. T. *Deighton Cottage, near York*.
- Tuke, Daniel, *York*.
- Tuke, Samuel, *York*.
- Turner, Rev. William, *York*.
- Tweedy, John, *York*.
- Tweedy, John Drumelzier, *York*.
- Vansittart, Henry, *Kirkleatham*.
- Vernon, Captain Frederick V. R.N.
- Vernon, Granville V. *London*.
- Vernon, Rev. Leveson V. *Stokesley*.
- Vernon, Rev. William V. F.R.S. M.G.S. *Bishopthorpe*.
- Wood, Sir Francis Lindley, Bart. *Hemsworth*.
- *Wrangham, Rev. Archdeacon, F.R.S. F.C.P.S. &c. &c.
Hunmanby.
- Wake, Baldwin, M.D. *York*.
- *Warburton, Henry, F.R.S. V.P.G.S. *London*.
- Wasse, Jonah, M.D. *Moat Hall, Little Ouseburn*.
- *Waterton, Charles, *Walton Hall*.
- Wellbeloved, Rev. Charles, *York*.
- Wemyss, Thomas, *York*.
- *West, William, *Leeds*.
- Wharton, John, *Aberford*.
- Wilson, Richard Fountayne, *Melton, Doncaster*.
- *Worsley, Rev. Thomas, F.C.P.S. *Downing College, Cambridge*.
- Worsley, William, *Hovingham*.
- Wortley, James Archibald Stuart, M.P. *Wortley*.

York, Archbishop of.

York, Dean of.

Yarburgh, Henry, *Heslington*.

*Young, Rev. George, *Whitby*.

Briggs, William, *Clifton*.

Bulmer, Rev. William, *York*.

Donkin, Thomas, *Elvington*.

Gooch, Rev. William, *Sutton*.

Lund, Rev. William, *York*.

Vernon, Egerton V. *Bishopthorpe*.

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OBJECTS AND LAWS

OF THE

Worke Philosophical Society,

INSTITUTED DECEMBER, MDCCCXXII.

1825.

WILLIAM JOHNSON, PRINTER,
ST. MARTIN'S LANE.

QUESTIONS AND ANSWERS

QUESTIONS AND ANSWERS

W. ALEXANDER AND SON,
PRINTERS, YORK.

OBJECTS

OF THE

YORKSHIRE PHILOSOPHICAL SOCIETY.

The general object of the Yorkshire Philosophical Society, is the promotion of Science in the district for which it has been instituted. To this end, it would enroll among its members, not only those who are themselves engaged in philosophical studies, but all by whom the value of such studies is duly appreciated; not those alone who hope to extend the boundaries of knowledge by their own researches, but all who are willing to encourage the prosecution of such researches by others, and to concur in furnishing those facilities to scientific enquirers, which a Philosophical Association is capable of affording.

In the confidence of meeting with general support, and of being enriched with gratuitous contributions, the Society originally fixed its terms of Subscription very low, in order that, if possible, no cultivator of science might be excluded by pecuniary considerations. The extensive and opulent County of York possesses the power of patronage to an ample degree; and the public spirit and liberality which the Society has already experienced, give it every reason to expect, that the

same honourable feelings will crown its undertaking with entire success.

Among the methods by which the Society proposes to accomplish its general design,—It hopes to contribute to the diffusion of knowledge, by giving encouragement to **PUBLIC LECTURES**; to forward the progress of investigation, by providing **APPARATUS** for the use of the experimentalist and observer; and to facilitate the mutual communication of philosophical ideas, by holding **MEETINGS**, at which papers may be read, and oral information interchanged.

Another of the Society's objects has been the establishment of a **LIBRARY**, by means of which, persons of *scientific* pursuits, in different parts of the County, may be enabled to consult **Books** on the subjects of their respective studies, which it might not be convenient for them individually to purchase; and, for that purpose, a Collection is making by degrees, of the **Transactions of Philosophical Societies**, and other works on **Arts, Antiquities, Natural History**, and the various branches of **Science**; a collection which, being necessarily of an expensive kind, cannot be expected to be of rapid growth, unless it should receive, from the liberality of individual members, an augmentation beyond what the Society's limited revenue can afford.

To supply a kind of information which books cannot adequately convey, the Society has also founded a **MUSEUM**, where collections are accumulating of those objects of philosophical enquiry, which, to be understood, require to be

seen. Such collections, when they are properly arranged, become schools of science, where the student may find means of instruction to which he could no otherwise have had access. The Society, when it regards the progress which its cabinets have already made, cannot but indulge the anticipation, that ere long the elements of many branches of knowledge may be learned within the walls of its Museum; that in this repository the Naturalist may form his first acquaintance with the works of creation, the Geologist trace his science to its Fossils, and the Antiquary his erudition to its Coins.

But, whilst it embraces these general views, the Society feels that the service particularly demanded at its hands, is of a more limited and local description. A full and exact account of the Natural History of the Earth, can only be obtained by a division of scientific labour. The County of York is the partition of that labour which falls within the Society's province, and to THIS field of research it especially directs the attention of its members; a field of sufficient extent and variety to excite interest, and at the same time sufficiently bounded to admit of being accurately explored. The materials will thus, it is hoped, be gradually collected, for a complete philosophical history of Yorkshire; specimens of all the natural productions of the County, its native quadrupeds, birds, and reptiles, its fishes,* insects, shells, plants, and minerals, will

* The natural history of Fishes admits of much new illustration. Their Osteology might be exhibited with least trouble by boiling the specimens, and either reuniting the bones, where loosened, by glue, or arranging them separately according to their order. The best method of preserving the natural appearance of Fishes, is, to take a plaster cast of half the fish, and then removing the skin, to fasten it upon the cast, and varnish it.

be assembled into one view ; and the questions respecting the district, which may suggest themselves to the scientific enquirer, will be answered by a glance of the eye.

At different periods, different studies rise into notice, attract the greatest number of investigators, and make the most rapid advances. The favourite study of the present age, seems to be GEOLOGY : to this new and comprehensive subject, the Society peculiarly devotes its attention ; because on this subject there is much to be done, which it is practicable to do. One of the Society's principal objects, therefore, is to elucidate the GEOLOGY of YORKSHIRE. There are few counties in England which are traversed by so great a variety of Strata ; few of which the Strata contain so many Fossils interesting to the Geologist, or so many Minerals important to the Arts ; and few of which the geological relations are so imperfectly and doubtfully determined. Towards the illustration of this subject, the Society trusts that much may be effected, by the combined observations of many individuals in their respective neighbourhoods, and by a contribution of Specimens from every part of Yorkshire to a Central Museum.

In this statement of its designs, the Society not only has it in view to increase its efficiency, by adding to the number of its members, but hopes also to induce many persons not belonging to it, to promote what must be acknowledged to be a project of public utility, by contributing to its Museum. If the scattered Coins, the Minerals, the stuffed Animals, and other objects of curiosity, which are in private hands, and

in an insulated state possess comparatively little value, were placed in such a repository as this, they would then be connected in a series from which something might be learned, they would be preserved with much greater security, and rendered of easier access, and more general advantage.

In considerable private collections, and in every public Museum, many *duplicate* specimens * occur, which, it may be not unreasonably hoped, will be spared to the Society's cabinets. Of solitary specimens, or such as are uncommon, especially Fossils, *Casts or Drawings* will be very acceptable; care being taken in the drawing to give both the *full front* and the *profile*, by which the true outline will be assigned.†

Persons not pretending to any proficiency in matters of Science, have it often in their power to render essential service to Scientific Institutions, with very little trouble to themselves. In Geology especially, a common observer will detect, without difficulty, animal or vegetable remains important to the Science, in almost every gravel pit or quarry in his neighbourhood. If he will only instruct the workmen employed in them, to preserve whatever they meet with of this kind; and further take the pains to have the *localities* of the specimens thus collected, and a *description of the bed*, whether limestone or gritstone,

* If collectors sending specimens will accompany them with a list of their principal *desiderata*, connected with Yorkshire Geology and Natural History, it will serve to inform the Society what duplicates will be acceptable in return.

† See Cuvier's *Ossemens Fossiles*, tom. 11. 2de. partie, pl. 3. fig 6. A. B. or pl. 5. fig. 9. a. b. c.

clay, gravel, or sand, in which they were found, distinctly noted—a precaution upon which their value almost entirely depends—and will send them to the Society, accompanied by any remarks which may occur, on the position of the bed, and the character of other beds lying above or below it, he will confer a favour on the Institution, and contribute materially to the advancement of knowledge.

Proprietors of land, whose enlightened views have led them to procure geological surveys of their estates, may greatly benefit the cause of Science, by communicating documents relative to the portions of the Strata thus examined; and the Society is anxious to invite the correspondence both of Surveyors and of Miners, and to obtain the assistance which they are so capable of lending to its objects; particularly by noticing those points of JUNCTION, where different kinds of rock or other beds come in contact with each other, and by furnishing SECTIONS OF THE STRATA, as they are laid open, in some parts, naturally by rivers or the sea, and, in others, presented artificially by quarries, wells, or mines.

These indeed are minute details; but with such minutiae great practical utility is both immediately and remotely connected: from such minutiae the knowledge of the Earth's structure is to be deduced, and a Science hereafter to be raised, which may lead to conclusions as important, perhaps, as any of those which have been so happily derived from the other parts of Natural Philosophy.

A desire of mutually communicating information, and interchanging specimens with this Institution, has been expressed by similar Establishments in different parts of the Country. Such a co-operation will greatly advance the general views of the Yorkshire Philosophical Society, and in particular contribute much to accomplish an accurate identification of the Strata, and the construction of a perfect map of the Geology of England.

**** The Treasurer (JONA. GRAY, Esq. York) is authorized to receive Pecuniary Donations, towards the general purposes, or particular objects, of the Society.*

Donations of Books, Maps, Prints, Casts, Drawings, Specimens, and Philosophical Apparatus, will be received by the Secretaries: and it is particularly requested that all packages, as well as letters and other communications, may be directed to

“The Secretaries of

The Yorkshire Philosophical Society,
YORK.”

In London, Donations and Communications may be addressed to the care of the Corresponding Secretary, DR. ATCHESON, 16, Upper Seymour Street, Portman Square.

The first part of the history is a general account of the state of the country at the beginning of the reign of King Henry the First. It describes the condition of the kingdom, the state of the church, and the character of the people. It also mentions the various wars and conquests which took place during his reign.

The second part of the history is a more particular account of the reign of King Henry the First. It describes the various events which took place during his reign, and the character of his government. It also mentions the various wars and conquests which took place during his reign.

The third part of the history is a more particular account of the reign of King Henry the First. It describes the various events which took place during his reign, and the character of his government. It also mentions the various wars and conquests which took place during his reign.

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LAWS OF THE SOCIETY,

AS AMENDED AT THE ANNUAL MEETING,

JANUARY, MDCCCXXV.

SECTION I.

MEETINGS.

I. An Annual Meeting of the Society shall be held on the first Tuesday of February, which shall have power to elect Officers and Members of the Council, to enact new Laws for the Society, and to alter and repeal existing Laws ; but no enactment, alteration, or repeal of a Law shall take place, unless a specific notice thereof in writing, signed by five subscribing Members, shall have been put up in the Library for one month previous to the Meeting.

Annual
Meeting.

II. General Meetings shall be held on the second Tuesday of January, March, April, July, October, November, and December. At these meetings, scientific Communications shall be received, subjects of Science discussed, Donations presented, and new Members elected.

General
Meetings.

III. Special Meetings summoned by the Council, shall have the same powers as the Annual Meeting ; provided that a notice have been issued a week before, to every subscribing Member residing within the County, specifying the object of the Meeting ; to which object its proceedings shall be confined.

Special
Meetings.

- Adjourned Meetings.** IV. Adjourned Meetings shall have the same powers as the Meetings from which they were adjourned.
- Right of Voting.** V. Subscribing Members alone, shall have the right of voting at a Meeting.
- Chairman in President's absence.** VI. If the President shall not attend any General Meeting, he shall appoint a Vice-President or Member of the Council to take the Chair, and shall communicate the appointment to the Secretaries. In failure of such communication, the Council shall elect a Chairman for the Meeting.
- Hours of Meeting.** VII. The Chair shall be taken at the Annual Meeting at Twelve o'Clock at noon ; at the General Meetings, at One o'Clock P. M. or as soon afterwards as Five Members shall have assembled.
- Decision of Questions.** VIII. Questions proposed at a Meeting shall be determined by a majority of votes ; and if the votes be equal, the Chairman shall have a second, or casting vote.

SECTION II.

OFFICERS AND COUNCIL.

- Officers.** I. A President and Vice-Presidents, a Treasurer, and Secretaries, shall be chosen out of the Subscribing Members, every year, at the Annual Meeting, and shall be re-eligible from year to year.
- Council.** II. The Affairs of the Society shall be conducted, in conformity with the Laws, by these Officers, and a Council consisting of twelve subscribing Members.

III. Four new Members of the Council shall be chosen yearly, out of the Subscribing Members of the Society, at the Annual Meeting; the supernumerary Members of the former Council retiring in the order of seniority, (or, where the seniority is undetermined, by lot,) and not being re-eligible for the current year.

Election
of Council.

IV. There shall be laid before each Subscribing Member present at the Annual Meeting, a List of all the Subscribing Members of the Society, and also a Balloting Paper. On the latter, each Member shall write the names of those whom he desires to fill the several Offices, and shall deliver it, folded up, to the Chairman. The Chairman shall appoint two Scrutineers to examine the balloting papers; and those Members who have the greatest number of votes for the respective Offices, shall be thereby elected to fill them. The Chairman shall announce the result of the election to the Meeting, which shall then proceed in like manner to the election of the new Members of the Council.

Mode of
Election of
Officers &
Council.

V. The President, Vice-Presidents, Treasurer, and Secretaries, shall be ex-officio Members of the Council.

Ex-officio
Members of
the Council.

VI. The Council shall meet at One o'clock on the Monday preceding each general Meeting; and at other times, if occasion shall require, on a summons issued not later than two days before, to every Member of the Council within twenty miles. The presence of Five Members shall constitute a meeting of the Council.

Meetings
of the
Council.

VII. The Chair shall be taken in the Council, in the same manner as at the General Meetings.

Chair.

VIII. Questions proposed in the Council, shall be decided by the majority of votes; and if the votes are equal, the Chairman shall have a second, or casting vote.

Decision of
Questions.

Curators. IX. The Council shall appoint Curators, who, with the President and Secretaries, shall have the superintendence of the several departments of the Museum, and of the Library, and shall prepare Catalogues of the same.

Curators' Report. X. Previous to the Annual Meeting, the Curators shall make a Report to the Council, of the additions made in the course of the year to their respective departments.

Treasurer's Report. XI. The Treasurer shall make a quarterly Report to the Council, of the state of the Society's Funds.

Council's Report. XII. The Council, at the Annual Meeting, shall present a Report of the state of the Society's Funds, the progress of the Library and Museum, and the general advancement of the objects of the Society; and the Report, if approved by the Meeting, shall be printed and sent to the members.

SECTION III.

ELECTION OF MEMBERS.

Proposal of Subscribing Members. I. The proposal of a Subscribing Member shall be in the following form, signed by three members of the Society, and shall be hung up in the Library, for one week previous to the ballot :

of *being desirous of*
becoming a Member of the Yorkshire Philosophical Society,
we, whose names are undersigned, do recommend him as a
proper person to be a Member thereof.

(Date.)

(Signatures.)

II. Honorary Members shall be proposed by the Council, and no previous notice shall be required.

Proposal of
Hon. Members.

III. The ballot for a Candidate shall take place at a General Meeting, and if three-fourths of the Subscribing Members present vote in the affirmative, he shall be admitted into the Society.

Ballot for
Members.

SECTION IV.

PAYMENTS OF MEMBERS.

I. Each subscribing Member shall pay to the Treasurer Five Pounds on his admission, and an Annual Subscription of One Pound on every first day of January following.

Admission-
money &
Subscription.

II. A Member may compound for his future annual subscriptions by a payment of Ten Pounds; and, having so compounded, he shall be entitled to all the privileges of a Subscribing Member.

Composition.

SECTION V.

PROPERTY.

I: The Property of the Society is, and shall be, vested in the Subscribing Members.

Property in
whom vested.

II. The Council shall be authorized to exchange specimens belonging to the Society, with other institutions or individuals, in such manner as they may judge conducive to the interests of the Society and Science; such specimens excepted, as shall have been given to the Society under restrictions to the contrary.

Exchange of
Specimens.

Purchases & Disbursements.

III. The Council shall be authorized to make purchases, and give orders on the Treasurer, upon the Society's account.

SECTION VI.

MUSEUM AND LIBRARY.

Access to Museum & Library.

I. Members, both Subscribing and Honorary, and Strangers accompanied by a Member, shall have access to the Museum and Library, subject to such restrictions and regulations as the Council shall appoint.

Circulation of Books.

II. Such of the Society's Books, as in the judgment of the Council can be permitted to circulate, shall be sent out to Subscribing Members resident within the County, under such regulations and penalties as the Council shall appoint.*

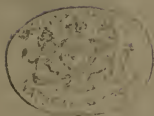


(Presented)
21 MAR 1839

* For the Regulations appointed by the Council, for the Museum and Library, see the Report for 1824, page 32.

~~1825~~

1825



S. 403. A. 1.

ANNUAL REPORT

OF THE COUNCIL

Academies, &c. - York.

Wor^{sh}ire Philosophical Society,

} k.

FOR

MDCCCXV.

YORK:

PRINTED BY W. ALEXANDER AND SON, CASTLEGATE.

1826.



THE GREAT BRITISH

1840

THE GREAT BRITISH

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It is particularly requested, that all Letters, Communications, and Packages containing Specimens, intended for the Society, may be directed to

"The Secretaries

of the

Yorkshire Philosophical Society,

York."

PATRONS, OFFICERS, AND COUNCIL.

M. DCCC. XXVI.

PATRONS OF THE SOCIETY.

HIS GRACE THE ARCHBISHOP OF YORK.
EARL OF CARLISLE.
EARL OF TYRCONNEL, F.G.S.
VISCOUNT MILTON, F.R.S. F.S.A.
LORD STOURTON.
LORD MACDONALD.

OFFICERS OF THE SOCIETY.

(EX-OFFICIO MEMBERS OF THE COUNCIL.)

PRESIDENT :

REV. WILLIAM VENABLES VERNON, F.R.S. F.G.S.

VICE-PRESIDENTS :

SIR GEORGE CAYLEY, BART.

JOHN HUTTON, ESQ.

SIR JOHN VANDEN BEMPDE JOHNSTONE, BART.

SIR JOHN LOWTHER, BART. M.P.

PAUL BEILBY THOMPSON, ESQ.

RICHARD J. THOMPSON, ESQ.

JAMES ARCHIBALD STUART WORTLEY, ESQ. M.P.

SIR FRANCIS LINDLEY WOOD, BART.

RICHARD BETHELL, ESQ.
 REV. ARCHDEACON MARKHAM.
 WILLIAM MARSHALL, ESQ. F.G.S.
 SIR W. M. MILNER, BART.
 RICHARD FOUNTAYNE WILSON, ESQ.

TREASURER :

JONATHAN GRAY.

SECRETARIES :

GEORGE GOLDIE, M.D. EUST. STRICKLAND.

CORRESPONDING SECRETARY :

HENRY ATCHESON, M.B. F.C.P.S.

16, Upper Seymour Street, London.

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REV. ARCHDEACON EYRE.
 RICHARD DRAKE.
 HON. PHILIP STOURTON.
 BALDWIN WAKE, M.D.
 REV. CHARLES WELLBELOVED.
 REV. ROBERT CROFT.
 ROBERT DENISON, JUN.
 JOHN PEMBERTON.
 OSWALD ALLEN.
 HENRY S. BELCOMBE, M.D.
 THOMAS SMITH.
 JOHN D. TWEEDY, F.H.S.

CURATORS.

ANTHONY THORPE..... LIBRARY.

REV. J. B. GRAHAM.... GEOLOGY.

W. MARSHALL, F.G.S. }
 REV. JOHN GRAHAM.... } MINERALOGY.

JAMES ATKINSON..... COMP. ANATOMY.

THOMAS BACKHOUSE.... { ENTOMOLOGY &
 { ORNITHOLOGY.

REV. C. WELLBELOVED.. }
 RICHARD DRAKE..... } ANTIQUITIES & COINS.

JOHN PHILLIPS..... { KEEPER OF THE MUSEUM,
 { AND DRAUGHTSMAN.

CHAPTER IV

THE first thing I noticed when I stepped out of the train at the station was the cold air. It was a sharp contrast to the warm, humid air of the city I had just left. I pulled my coat tighter around me and looked up at the clock tower. The hands were just past eight. I had time to spare.

I walked towards the entrance of the building, my boots crunching on the wet pavement. The rain had started again, falling in soft, steady drizzles. I remembered the old saying: "It rains in London for a reason." I was here for a purpose, and I intended to see it through.

The building was a grand, imposing structure with many windows. Some were dark, while others showed the faint glow of interior lights. I hesitated for a moment before pushing open the heavy wooden door. The air inside was thick with the scent of old paper and dust.

I walked down a long, narrow hallway. The walls were covered in dark wood paneling, and the floor was made of polished stone tiles. The lighting was dim, creating a somber and mysterious atmosphere. I felt as if I had entered a world that had been forgotten by time.

I reached a large, open room at the end of the hallway. In the center of the room stood a large, ornate desk. Behind the desk, a man in a dark suit and a white shirt was sitting. He looked up at me with a serious expression. "You must be Mr. [Name], the man from the [Company]."

I nodded and introduced myself. He listened intently, his eyes never leaving mine. He then stood up and gestured towards a door at the end of the room. "Please, follow me. We have much to discuss."

We walked through a series of corridors, each with its own unique character. Some were brightly lit, while others were in shadow. The architecture was a mix of old and new, reflecting the city's long and rich history. I felt a sense of awe and wonder as we moved through the building.

Finally, we reached a large, open-plan office. The room was filled with desks, computers, and stacks of papers. A woman in a business suit was sitting at a desk, looking at a document. She looked up at us and smiled. "Welcome to the office. Please, take a seat. We will be with you shortly."

REPORT,

PRESENTED TO THE ANNUAL MEETING OF THE SOCIETY,

FEBRUARY 7th, 1826.

THE COUNCIL, in submitting their Report for 1825 to the Annual Meeting, are enabled to lay before it a very gratifying account of the progress of the Society's affairs. During the last year, the number of its Members has continued to increase; the communications made to it on subjects of Science have been more frequent, and the contributions to its cabinets more valuable; the constant attendance of a well qualified Curator has been procured, and a subscription for an adequate Building has been successfully commenced.

The Meeting will observe, in the list of Donations prepared for its inspection, many important additions to the GEOLOGICAL COLLECTION. Of this description are the Fossils found near Flamborough, in the upper beds of the Chalk, by one of the Curators of Mineralogy,* and by a Vice-President † of the

* W. Marshall, Esq. F.G.S.

† W. Salmond, Esq. F.G.S.

Society, which complete the analogy presumed between these and the corresponding Strata in other parts of England, and include also some undescribed varieties. Of similar Geological interest are the peculiar shells discovered by an Honorary Member* in a bed above the Alum-shale, which had not been previously distinguished. The Society's collection of fossil plants from the Coal-field of the West-Riding, has been greatly improved by a donation of specimens from the author of the "Antediluvian Phytology:"† and a Sandstone cast of *Syringodendron*, between five and six feet in height and thirty inches in diameter, removed from the quarry at Altofts under the direction of the donor‡ and the Officers of the Society, stands in the Museum, in the position in which it was found, a gigantic monument of ancient vegetation. The list of Organic Fossils, strictly termed Antediluvian, has also been further augmented by numerous remains of the Elephant, from the South-eastern coast of Yorkshire.

Of the Geological contributions from more distant parts, there are several which deserve particular notice. Among these are the various Fossils found by one of the recently elected members § of the Society, in the shale accompanying the mountain limestone in Northumberland; and the specimens from Sutherland, of the strata in which the Brora coal is worked, identical, in the opinion of the donor || and Dr. Buckland, with those which form the North-eastern moorlands of this County. To the Secretary of the Geological Society, the Museum has been further indebted, for a numerous suite of specimens, from the different beds of the basin of Paris;

* Mr. Bean, of Scarborough.

† E. T. Artis, Esq., F.G.S.

‡ The Rev. S. Sharp, Vicar of Wakefield.

§ The Rev. C. V. Vernon.

|| C. Lyell, Esq. Sec. G. S.

and to Dr. Buckland, for a very interesting donation, consisting of some hair of the celebrated Siberian Mammoth, set in fossil ivory remarkably unimpaired by the lapse of ages;* to which may be added a more recent specimen, presented by Lord Milton, of the cranium and horns of an extinct species of Bos, which formerly inhabited this island. Lastly, the extensive collection of rock-specimens from Scotland, with which the Society was favoured by Mr. Witham, has been still further enlarged by him; and a complete geognostic series from Freyberg, illustrative of the Wernerian system, as described in a memoir drawn up at the Royal Saxon Depository of Minerals, has been contributed by Mr. Heuland.

The accustomed liberality of this distinguished promoter of mineralogical science, has also been shown in a munificent present of two hundred valuable varieties of MINERALS to the Society's collection, which has been further augmented to about the same amount, by two donations of American and Vesuvian specimens from Mr. Wortley and Mr. Cooke.

IN RECENT ZOOLOGY, the flexible Corallines collected on the Scarborough coast by Mr. Bean, furnish interesting materials

* This ivory was worked from part of a tusk found in clay near Bridlington, and presented to Dr. Buckland by the Council. The silver rim of the box bears the following inscription:

FLOCCVM. HVNC. DE. PELLE. PRIMAÆVI. ELEPHANTIS. VSQVE. A. DILVVIO. IN
GLACIÆ. SIBERICA. CONSTRICTI. EBORÆ. COÆTANEO. PROPE. BRIDLINGTON.
EFFOSSO. MNIVIT. ET. INTER. RARIORA. SOCIET. PHILOS. EBORAC. REPOSUIT.
GVL. BVCKLAND. EIVSDEM. SODALIS. HONORARIVS. SOC. GEOL. LOND. PRAESES.
MIN. ET. GEOL. APVD. OXON. PROFESSOR. ET. AEDIS. XTI. CANONICVS.
A. D. M. DCCC. XXV.

of study, in a department of natural history which has been hitherto but little explored; and the entomological donation lately presented by the author of the *Dendrologia Britannica*,* including nearly two thousand British specimens, many of which are rare, has a peculiar value from the circumstance of the Insects having been procured within the county of York.

The Council have only further to remark on the subject of donations, that the LIBRARY has received contributions to the amount of eighty volumes, and that many additions have been made to the cabinet of COINS.

The PURCHASES which have been effected out of the income of the last year, have been considerable. Several favourable opportunities have occurred of enriching the Museum; and the Council, availing themselves of advantages not likely to recur, have expended about a hundred pounds, in the acquisition chiefly of foreign minerals; among these, the specimens from North America, selected for the Society by the obliging care of a resident Mineralogist,† and accompanied by an instructive catalogue, form, with Mr. Wortley's donation, a complete collection of what has been hitherto discovered in the United States. The cabinet of Coins also, which was recently purchased, partly by subscription and partly out of the Society's funds, has added an extraordinary charge of fifty pounds to the expenses of the year.

But these demands, together with those incurred for the purchase of Books and Cases, for Printing, (the amount of

* P. W. Watson, Esq. F.L.S.

† Wm. Meade, M.D. of Philadelphia.

which was increased to supply copies for an extended distribution of the Report,) and for other Incidents, would scarcely have intrenched on the income of 1826, if the expectations entertained with regard to the LECTURES had been realized. In 1824 the Lecture account left a balance of forty pounds in favour of the Society : of the three courses delivered in the last year,* the expenditure amounted to two hundred and forty-three pounds, and the receipts to one hundred and ninety-three, leaving a deficiency of fifty pounds, where a profit had been expected.

It is obvious, however, that on the account of the two years, the Society's loss is inconsiderable ; and the Council have not been discouraged by the present defalcation, from persevering in the employment of these means for the diffusion of scientific information. The experiment of providing Lectures for the public in this district is new, and, in the conduct of it, errors are at first unavoidable. Anxiety to reduce the price of knowledge, occasioned the terms of admission to be fixed at a rate unusually low ; the desire of extending the opportunity of instruction to every class of Society, led to the expense of evening repetitions of the two most practical Courses ; and circumstances not under the control of the Council, produced the disadvantage of too prolonged a succession of Lectures. In the delivery of the Course at present contemplated, little risk of loss is to be apprehended. The natural history of the Organized and once animated Remains of the Fossil World, is a subject eminently calculated to excite the curiosity of inquisitive minds ; and the Council trust that the success of Mr. Phillips's Lectures will shortly justify the opinion which they still entertain, that talent and

* On Geology, on Natural Philosophy, and on Experimental Chemistry.

science combined, will never want an adequate audience in this city.

There has been no measure yet adopted in the administration of the Society's affairs, which is of greater consequence to the scientific character of the Institution, than the appointment of a KEEPER OF THE MUSEUM. In this capacity Mr. Phillips has undertaken to give his attendance at the Society's rooms, during nine months of the year, for three days in each week,* and, conjointly with the Curators, to take charge of the various departments of the Museum. All the sources of information which it is the object of a scientific Institution to supply, will thus be regularly open at fixed and stated times; and a person will always be at hand peculiarly qualified, by the variety and accuracy of his knowledge, to satisfy enquiry. When the Society's Museum, which was resorted to, in the course of the last year, by several eminent foreigners, was visited by M. Adolphe Brongniart, Mr. Phillips was present, and showed him the peculiar vegetable impressions which occur in the neighbourhood of Whitby. M. Brongniart immediately recognized them as belonging to the *middle series* of his three great geological divisions of fossil plants; and was much gratified by the confirmation they afforded of his views respecting a district in Scania, where he had observed the same genera and species, and had inferred that the strata containing them belong to the oolitic formations. Among these impressions from Whitby, were some ill-defined specimens, in which M. Brongniart thought he could discover the seeds of a monocotyledonous plant. Mr. Phillips has since searched

* Tuesday, Thursday, and Saturday, from Ten o'Clock A. M. to Four P. M.

for these seeds, and having found them in a more perfect state, has verified the conjecture. Such information as was thus accidentally exchanged between this sagacious foreigner and the Society, it will hereafter be part of the office of the Keeper of the Museum to give and to receive. It is unnecessary to point out to the Meeting, in how many other respects this appointment promises to prove advantageous to the interests of an establishment, whose growing concerns already require more constant attention, than the spare time of its unsalaried officers can possibly afford.

Of the salary attached to the office, one half has been provided, for the ensuing year, by private subscription, the Society's funds being at present inadequate to defray the whole expense, without too great a sacrifice of other objects. In what manner the deficiency is to be hereafter supplied, will be matter for the future consideration of the Society.

But the most important subject to which the Council have to call the attention of the Meeting, is the progress which has been made, towards obtaining an adequate BUILDING for the Museum and other objects of the Society. The site for such a building, which they have anxiously exerted themselves to procure, is the ground adjoining to the ruins of St. Mary's Abbey. The position of the Manor-shore, quiet, yet not remote, the extent of unoccupied ground which it offers, and even its scenery, and the interest inspired by the venerable monuments of antiquity which surround it, combine to render it the most fortunate situation which could be chosen for a Philosophical Institution. With these views, applications were made on behalf of the Society, to Lord Grantham, who holds the ground by

lease under the Crown, and to one of the Offices of Government; and favourable answers having been received, proposals were issued to the public for a subscription, which met with such success, that sums amounting to Four Thousand Six Hundred and Fifty Pounds have been already subscribed. The Corporation of York, who are among the largest contributors, have also promised the Society a new access to the ground, from a central part of the city.

When so considerable a favour is asked, as is included in the Memorial which has been presented, on the part of the Society, to the Treasury, some interval must be expected to elapse between the first favourable intimations, and the ultimate result. A transaction of this kind undergoes the consideration of two different Boards. It requires various Reports, and is liable to be retarded by the pressure of more important business; but the Council have reason to believe that the preliminary enquiries have now been completed, and are in daily expectation of receiving from the Treasury a final, and they trust a satisfactory, answer.

It has been ascertained that the Act of Parliament, which regulates the management of the Crown-Lands, has left a power with the Executive to grant whatever favour it may think fit, to Scientific, as well as to Charitable Institutions; and, up to the present moment, the Public Functionaries have manifested every disposition to exercise the discretion thus reposed in them, in the Society's favour.

The Council only wait till the pleasure of the Crown shall have been officially notified, to renew their appeal to the

public spirit of the County for further subscriptions. An opinion seems to be generally entertained, that the plan formerly submitted to consideration, is inadequate to the object proposed; and that, if a great NORTHERN MUSEUM is to be formed, a building will be required of more dignified character, and larger dimensions. Coinciding in these views, and believing that the success and utility of the Institution will depend much on the scale upon which its walls are constructed, the Council would recommend that no attempt should be made to build, till the subject shall have been laid more fully before the Public. They are far from thinking that the Subscription has reached the limits to which it may be practicable to advance it: they conceive that whenever the Society shall become actually possessed of the ground, an immediate increase of contributions may be looked for: they remark that a large proportion even of the Members of the Society have not yet subscribed; and that the Subscriptions, though in some instances splendidly munificent, are not yet so general as might be expected, particularly in the place which will profit most by the result. They cannot believe that those who have shown a zeal for Science, in promoting the first efforts of the Society, will leave the work which they have commenced, incomplete, and allow the Institution to which they have united themselves, to become stationary, or retrograde. They do not entertain so low an opinion of the public taste and spirit of this Northern Metropolis, as to suppose that its citizens will regard with indifference, the execution of a plan which will redound so much to its credit and advantage. They look with confidence towards the great and enlightened County to which it is their pride to

belong; and trust that when they shall have again the honour of addressing the Annual Meeting, they shall be enabled to congratulate the Society, on a support as ample as its objects are important, its exertions zealous, and its prospects hopeful.

THE TREASURER'S ACCOUNT FOR 1825.

Dr.

Cr.

Admission Money:

Receipts for Arrears..... 25*l*.

Receipts for 1825..... 145 170 0 0

Compositions and Donations..... 75 5 0

Annual Subscriptions:

Receipts for Arrears..... 28*l*.

Receipts for 1825..... 113 141 0 0

Receipts from Lectures..... 193 13 0

Balance due to the Treasurer at the close of 1825 127 4 11

£ s. d.

£ s. d.

Balance due to the Treasurer at the commence-

ment of 1825..... 4 10 5½

Purchases for the Museum:

Coins..... 51*l*. 2*s*. 0*d*.

Minerals and Fossils..... 95 5 9 147 7 9

Expenses of three Courses of Lectures..... 245 16 5

Books, Maps, and Binding..... 36 10 11

Printing..... 44 1 4

Stationery..... 28 18 9

Cases and Furniture..... 98 10 2

Rent and Wages..... 52 16 6

Incidents (comprising household expenses,

Carriage, Postage, &c.)..... 48 10 7½

£ 707 2 11

£ 707 2 11

Balance due to the Treasurer on the above Account..... 127 4 11

Deduct arrears due by Members..... 46 0 0

Final Balance against the Society at the close of 1825..... £ 81 4 11

JONA: GRAY, Treasurer.

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DONATIONS

AND OTHER ADDITIONS

TO THE SOCIETY'S MUSEUM.

GEOLOGY.

1825.

JANUARY.

- | | | |
|----------------------------|---|--|
| J. Crosse, Esq. F.S.A. | } | Specimens from the Giant's Causeway. |
| F.G.S. Hon. Mem. Y.P.S. | | |
| * R. J. Thompson, Esq., | | Section of vertebræ of Ichthyosaurus. |
| Mr. Williamson..... | | Fossil Shells and Crustacea, from the Shale below the Chalk, Speeton, E.R.Y. |
| Rev. G. Young, | } | A new species of Ammonite from Whitby. (<i>A. hawkskerensis</i> , Y.) |
| Hon. Mem. Y.P.S. | | |
| * Mr. G. Todd..... | | Polished diluvial pebbles, from Heslington gravel-pits, near York. |
| * W. Marshall, Esq. F.G.S. | | Two joints of a Basaltic Column, from Staffa. |

FEBRUARY.

- | | | |
|----------------------------|---|--|
| * Rev. J. Graham..... | | Various Specimens from Lincolnshire. |
| Mr. William Smith, | } | Fossils from Hutton Sessay and Carlton Husthwaite, N.R.Y.† |
| Hon. Mem. Y.P.S. | | |
| John Atkinson, Esq. F.L.S. | } | Two fossil grinders of Elephant, from diluvial gravel, Melton, Leicestershire. |
| Hon. Mem. Y.P.S. | | |
| Rev. — Green..... | | Fossils from N. Grimston, near Malton. |

* Subscribing Members of the Society are marked with an asterisk.

† N. E. or W.R.Y. denote the localities to be in the North, East, or West Riding of Yorkshire.

- * John Hustler, Esq. . . . Galena, from a fault in a Coal mine,
near Bradford, w.r.y.
- Woodward, Esq. . . . Fossils from the Chalk, near Norwich.
- Rev. W. Walford Fossil Shells, from the Crag, Suffolk.
- * Rev. W. V. Vernon, }
F.R.S. Pres. Y.P.S. } Chiastolite slate, from Skiddaw.

MARCH.

- Miss Cecilia Markham . . . }
} 77 Species of fossil Shells, and two fossil
} teeth of Fish, from the Freshwater
} and London-clay formations in Hamp-
} shire and the Isle of Wight.
- Miss Croft Calcareous Tufa, Alston Moor.
- * William Danby, Esq. }
Vice-Pres. Y.P.S. } Miscellaneous Yorkshire specimens.
- Rev. Samuel Sharp }
} Numerous specimens of fossil Plants in
} the burnt Sandstone of Altofts, near
} Wakefield.
- Rev. Samuel Sharp }
} Fossil Shells from the Coal Measures near
} Wakefield, and from the Magnesian
} Limestone, Garforth Cliff, w.r.y.
- * Rev. John Graham . . . }
} Ammonites (*A. lythensis*, Y.) from
} Whitby. Mica, from Baffin's Island.
- Rev. G. Young, }
Hon. Mem. Y.P.S. } Additional specimens of the Lias Strata,
} Whitby.
- Rev. G. Young, }
Hon. Mem. Y.P.S. } Rock Specimens from Baffin's Island.
- Rev. G. Young, }
Hon. Mem. Y.P.S. } Ammonites *mulgravius*, (Y.) & Belem-
} nites tubularis, from Whitby.
- Mr. John Phillips, }
Hon. Mem. Y.P.S. } Fossil Sponges and Shells, from the
} Coralline Oolite, at Hackness, n.r.y.
- Purchased by order of }
the Council. } 98 Specimens of fossil Plants, from
} Sandstone beds near Whitby.
- Purchased by order of }
the Council. } A fossil Fish, from the Lias near Whitby.

APRIL.

- * I. Spencer, jun. Esq. Three large joints of a Basaltic column, from the Giant's Causeway.
- Hon. Mrs. Beilby Thompson } Diluvial specimens from Escrick Gravel pits, near York.
 } Fossils from the north of Ireland.
- * Mr. J. Bulmer Polished fossil Wood.
- * Rev. C. V. Vernon } 109 Fossils from the several subordinate beds of the Mountain Limestone, near Rothbury, Northumberland.
- * Mr. H. Henwood Rock specimens from Davis' Straits, &c.

JULY.

- Mrs. Norcliffe Large Ammonite from the Calc-Grit, Langton Wold, E.R.Y.
- John Bland, Esq. } Osseous Breccia from Sardinia, and other specimens.
 Hon. Mem. Y.P.S. }
- Mrs. Davies Fossil Plants from Sir J. L. Kaye's Collieries, W.R.Y.
- * Rev. W. V. Vernon, } Fossils from the Kelloways Rock and Calc-Grit at Hackness; and from the inferior Oolite at Brandsby, N.R.Y.
 F.R.S. Pres. Y.P.S. }
- * Rev. B. Eamson } Specimen of the Brotherton Limestone, from Copgrove, near Knaresborough, W.R.Y. (*a new locality.*)
 } Fossils from the Green sand and Iron sand at Folkestone, Hastings, and Sellinge in Kent.
- Charles Lyell, Esq. } Specimens of the Coal, and accompanying Oolitic Strata, at Brora and Helmsdale, Sutherland.
 Sec. Geol. Society. } A series of 79 specimens, illustrative of the Geology and Mineralogy of the Basin of Paris. (*with a Catalogue.*)
 } Freshwater Rock-Marl from Forfarshire.

- * Rev. R. S. Thompson... Fossil grinder of Elephant, from gravel at Overton, near York.
- E. T. Artis, Esq. F.G.S. } Fossil Plants, from Elsecar Colliery, near Barnsley, and Lee Brook, near Wakefield, W.R.Y.

OCTOBER.

- * Viscount Milton, F.R.S. } Cranium, Horns, and Teeth of gigantic Patron Y.P.S. } Bos, from alluvial gravel, near Milton, Northamptonshire.
- J. S. Wortley, Esq. M.P. 33 Fossils from North America.
- * Eust. Strickland, Esq. } 24 Species of fossil Shells, from the Sec. Y.P.S. } London Clay, at Earnley, Sussex.
- * Sir George Cayley, Bart. } Remains of Elephant from the Yorkshire Vice-Pres. Y.P.S. } Coast, and other Fossils.
- W. Whytehead, Esq. Remains of Elephant, and other fossils from the diluvium at Hornsea, E.R.Y.
- * Rev. J. Graham Miscellaneous specimens.
- Rev. J. Harrison } Fossil Fern (*Polypodium pectinatum*, Sternb.) in Sandstone of the inferior Oolite, Marsk, Cleveland, N.R.Y.
- * W. Marshall, Esq. F.G.S. } 83 Fossils (Marsupites, Alcyonites, Echini, and Shells) from the Chalk near Flamborough, E.R.Y.
- } Diluvial Mass of Chert, impressed with the cast of a large fossil plant, (*Variolaria*, Sternb.) Thorparch Moor, W.Y.R.
- H. Heuland, Esq. F.G.S. } 200 Specimens from the vicinity of Hon. Mem. Y.P.S. } Freyberg, forming a series of Rocks arranged according to the system of Werner, with a descriptive catalogue in German and English.
- H. Witham, Esq. M.W.S. } 127 Additional specimens of Rocks from Hon. Mem. Y.P.S. } Arran, the Hebrides, Shetland, and the mainland of Scotland.

- Rev. Sir C. Anderson, Bart. Fossil horn of a Bos, from Barmby Moor, E.R.Y.
- Mr. William Bean,
Hon. Mem. Y.P.S. { 30 Fossils (chiefly Shells) from two beds immediately above the Lias Shale, Robin Hood's Bay, N.R.Y.
- Mr. J. Phillips,
Hon. Mem. Y.P.S. { Fossil Seeds of a Monocotyledonous plant, (allied to the *Cycadææ* of Jussieu,) from a Sandstone bed at Haiburn Wyke, near Scarborough.
- Rev. Prof. Buckland, F.R.S.
Hon. Mem. Y.P.S. { Hair of the antediluvian Elephant, preserved in ice at the mouth of the Lena, set in fossil Ivory from Bridlington.

NOVEMBER.

- Rev. Samuel Sharp..... { Gigantic fossil stem, (*Syringodendron*, Sternb.) from the Sandstone of the Coal-measures, Altofts, near Wakefield.
- Mr. Robert Pickering,
Hon. Mem. Y.P.S. { Numerous additional specimens of fossils from the Coralline Oolite of Malton.
- * W. Marshall, Esq. F.G.S. { 62 Fossils from the Oolitic Strata of the Salève, Jura, and other localities in Switzerland.
Fossil Fish from Monte Bolca.
- * W. Salmond, Esq. F.G.S.
Vice-Pres. Y.P.S. { 53 Fossils from the Chalk near Flamborough, and other Strata of the Yorkshire coast.
- * W. Danby, Esq.
Vice-Pres. Y.P.S. { 78 Rock specimens and Minerals from France, Devonshire, Wales, &c.
Fossil Shells from the Mountain Limestone, North of Ireland.

DECEMBER.

- * Mr. D. Tuke..... Fossils from the Mountain Limestone, Derbyshire.
- Mrs. Lawson..... Fossil Shells from the Crag, at Easton, Suffolk.
- * Hon. C. Langdale.... Specimen of charred Corn, dug up at Holme, E.R.Y.

JANUARY, 1826.

- * Rev. C. V. Vernon... } Vertebra of a Saurian animal, found in the gravel of a brook near Nunnykirk, Northumberland.
- * Wm. Danby, Esq. } Portion of a large Elephant's tusk, Vice-Pres. Y.P.S. } from a marl-pit at Harswell, E.R.Y.
- * Rev. W. Richardson.. Specimens of partially petrified wood, found near Ferrybridge, W.R.Y.

MINERALOGY.

1825.

JANUARY.

- P. Murray, M.D..... } 2 Specimens of Carbonate of Strontian and Barytes, from Merryfield Lead-mines.
- J. Crosse, Esq. F.S.A. } 4 Minerals, from the Lizard Point and F.G.S. Hon. Mem. Y.P.S. } Giant's Causeway.
- Mr. Williamson..... Iron Pyrites, from Filey Bay.
- Rev. G. Young, } 2 Minerals.
Hon. Mem. Y.P.S. }
- * Mr. D. Tuke..... 5 Minerals from the Giant's Causeway.
- * Mr. S. Tuke..... Quartz from Merthyr Tydvil.
- Mrs. Jarrett..... Carbonate of Lime crystallized, in Coal, from Somersetshire.

FEBRUARY.

Miss Belcombe..... Jasper from the Yorkshire coast.

MARCH.

Rev. W. Taylor, } Oxide of Iron, in Magnesian Limestone,
Hon. Mem. Y.P.S. } from Bramham Moor.

Donation by several } A magnificent specimen of Galena with
Members of the Society } Pearl-spar, from Alston Moor.

H. F. Smith, Esq. } Fluuate of Lime from Alston Moor.
Hon. Mem. Y.P.S. }

APRIL.

H. Heuland, Esq. F.G.S. } 100 Foreign Minerals.
Hon. Mem. Y.P.S. }

Rev. W. Taylor, } 2 Minerals from Alston Moor.
Hon. Mem. Y.P.S. }

F. Beckwith, Esq..... Cobalt, the Residuum of burnt Bank
Notes.

Rev. J. B. Emmett..... Lead crystallized after fusion.

* Mr. Henwood..... 4 Minerals.

JULY.

Purchased in America by } 177 Minerals from North America.
order of the Council. }

* Mr. P. Atkinson..... 25 Minerals.

W. H. Clayfield, Esq... 3 Specimens of Sulphate of Strontian,
from Aust Passage, on the Severn.

Purchased at Mr. Heuland's } 53 Foreign Minerals.
sale by order of the Council }

Norcliffe Norcliffe, Esq... Oxidulated Iron from Sweden.

John Bland, Esq. } 19 Minerals, chiefly British.
Hon. Mem. Y.P.S. }

OCTOBER.

- H. Heuland, Esq. F.G.S. }
 Hon. Mem. Y.P.S. } 100 Foreign metalliferous Minerals.
- John S. Wortley, Esq. M.P. } 72 Minerals from North America.
- * Mr. F. J. Copsie, }
 Sec. Y.P.S. } 4 Minerals from Cumberland.
- H. F. Smith, Esq. }
 Hon. Mem. Y.P.S. } Quartz crystallized, and super-sulphuret
 of Lead, from Dufton.
- * George Goldie, M.D. }
 Sec. Y.P.S. } 12 Minerals.
- John Bland, Esq. }
 Hon. Mem. Y.P.S. } Sulphate of Barytes.
- * Rev. J. Graham, Cura- }
 tor of Min. Y.P.S. } Fluete of Lime from Alston Moor.
- * Sir George Cayley, Bart. }
 Vice-Pres. Y.P.S. } 2 Minerals from Giant's Causeway, and
 Needlestone from Iceland.
- * Henry Atcheson, M.B. }
 F.C.P.S. }
 Corresp. Sec. Y.P.S. } Stalactitical Carbonate of Lime.

NOVEMBER.

- * William Danby, Esq. }
 Vice-Pres. Y.P.S. } 10 Minerals from Cornwall and Wales,
 and 3 foreign Minerals.
- * Sir H. M. M. Vavasour, }
 Bart. } Tufa, in a cast after the antique, from
 San Filippo in Tuscany.

DECEMBER.

- * Mr. D. Tuke } 5 Minerals from Derbyshire.

JANUARY, 1826.

- * P. Davies Cooke, Esq. }
 F.G.S. } 139 Minerals from Vesuvius.

RECENT ZOOLOGY AND BOTANY.

1825.

FEBRUARY.

- * Rev. J. Graham..... Skin of Cobra di Capello, from Madras.
 Mr. Ellison..... Madrepora muricata.

MARCH.

- * John Dalton, Esq..... Canada Hamster. (*Mus bursarius*,
 Shaw.)

APRIL.

- * Mr. Henwood..... {Cranium of Polar Bear, two specimens.
 {Wood perforated by *Teredo navalis*.

JULY.

- John Bland, Esq. {Nest of a species of Spider, from the
 Hon. Mem. Y. P. S. {neighbourhood of Montpelier.
 {Corallines, Echinus, &c.
 Rev. Mr. Tabaldo..... A Pheasant.
 Mr. Williamson..... 95 Species of British Shells.
 * W. Marshall, Esq. F.G.S. Cranium of Chamois.
 * Mr. Henwood..... Cranium of Arctic Fox.

OCTOBER.

- I. Harwood, M.D. F.L.S. {Birds from Flamborough Head, viz.
 {Alca torva, Larus rissa, and 2
 {specimens of *L. nævius*.
 W. H. Dikes, Esq. F.L.S. } 51 British and Foreign Shells.
 Hon. Mem. Y. P. S. }
 Mr. Henry Strickland..... {Soui-Manga, or Sugar-bird, (*Cinnyris*,
 {Cuv.) from Africa.
 {Flying Fish from St. Helena.
 {Small Tortoise from Africa.
 * Viscount Milton, F.R.S. } 4 Specimens of *Lycæna Chryseis*, male
 Patron Y. P. S. } and female.

- Mr. J. Elliott..... Cranium of Boar.
- * W. Marshall, Esq. F.G.S. } Fishes from Bridlington Bay, viz.
 Sting-fish and Spotted Blenny.
- } Shells from the Yorkshire coast, viz.
 } Venus Islandica and Pholas candida.
- Mr. R. Ripley..... Specimens of *Lepas membranacea*.
- Mr. W. Bean, } 50 Species of flexible Corallines,
 Hon. Mem. Y.P.S. } collected on the Scarborough coast.
- * H. Atcheson, M.B. 12 Specimens of *Lucanus cervus*.

DECEMBER.

- * Rev. W. V. Vernon, } Collection of Cumberland Grasses.
 F.R.S. Pres. Y.P.S. }

JANUARY, 1826.

- Mr. Dent..... A fine specimen of *Sphinx atropis*.
- * Mr. T. Backhouse..... Two specimens of *Carabus nitens*,
 from Stockton Common; near York.
- P. W. Watson, Esq. F.L.S. } An arranged Collection of 2000 British
 Hon. Mem. Y.P.S. } Insects; chiefly from the neighbour-
 } hood of Cottingham, E.R.Y.

THE FOLLOWING ADDITIONS

HAVE BEEN MADE TO THE PRIVATE COLLECTION BELONGING TO
 THE CURATOR OF COMPARATIVE ANATOMY, AND DEPOSITED IN
 THE MUSEUM OF THE SOCIETY :

Stuffed Specimens of Monkey, Weasel, Ermine, and Pole-cat.

Cranium of Mastiff.

Skeletons of Bat, Mouse, Fox, Rabbit, Hare, Squirrel, and Racoon.

Cranium and Jaws of Seal.

Heads and Feet of 67 species of British Birds.

Eggs of above 60 species of British Birds.

Head of the Wolf-fish. (*Anarrhichas lupus*, Linn.)

ANTIQUITIES:

1825.

I. COINS AND MEDALS.

JANUARY.

- | | | |
|-------------------------------------|---|--|
| * Mr. Alderman Smith.... | } | 20 Roman Coins, <i>arg.</i> 9 Roman Coins, <i>ær.</i> Noble of Henry v. 18 English, French, &c. <i>silver & copper.</i> 8 French Revolutionary Medals, <i>bronze.</i> 9 large thin brass of Edw. vi. A medallion, age unknown. |
| Joseph Eglin, Esq. Hon. Mem. Y.P.S. | } | 133 Roman Coins, <i>ær.</i> 6 modern, <i>copper.</i> 2 Medals, on occasion of the death of Queen Mary, &c. |

FEBRUARY.

- Rev. — Green..... 2 Roman coins, *ær.* 2 English, *silver.*

JULY.

- | | | |
|--------------------------------------|---|---|
| John Bland, Esq.
Hon. Mem. Y.P.S. | } | 126 English and 29 foreign coins and tokens, <i>copper.</i> |
| Hon. and Rev. T. Monson. | } | 4 gold and 3 silver Coins found in the church yard of Bedale, viz. angel, 2 crowns, and one half-crown of Hen. VIII. <i>gold.</i> 2 groats and one testoon of Hen. VIII. <i>silver.</i> A testoon of Hen. VIII. <i>laten.</i> |

OCTOBER.

- | | | |
|-------------------------------------|---|--|
| Thomas Meade, Esq. Hon. Mem. Y.P.S. | } | 6 Roman Coins, <i>pseud-arg.</i> 64 Roman Coins, <i>ær.</i> 1 Greek. |
|-------------------------------------|---|--|

DECEMBER.

- | | | |
|------------------------|---|---|
| Rev. W. Wilkinson..... | } | 4 Consular and 18 Imperial Roman Coins, <i>arg. et ær.</i> 7 Rom. <i>ær.</i> not legible. Half-crown of William and Mary. Shilling of William. Shilling of Anne. Sixpence, Rose and Feather, Geo. II. |
|------------------------|---|---|

II. MISCELLANEOUS ANTIQUITIES.

APRIL.

- Mr. Knowlson..... 3 Roman Urns, 2 Vases, one Patera, one
Lamp : found near the Mount, York.
- * Rev. J. Graham..... Roman Urn, found near Fishergate
Postern, York.

JULY.

- Mrs. Davies..... Moulds of ancient Coins, found near
Wakefield.
- * Richard Drake, Esq. }
Curator of Antiq. Y.P.S. } Part of an ancient Roman Die, rev.
- Mr. Richard Dalton, }
Hon. Mem. Y.P.S. } 32 Sulphur casts of antique Gems.

JANUARY, 1826.

- Mr. John Browne..... Casts of ancient Sculpture, from St.
Margaret's Porch, York.

PHILOSOPHICAL APPARATUS.

-
- * Rev. W. V. Vernon, F.R.S. Galvanic Battery of 4000 small plates.
- Rev. W. Taylor,
Hon. Mem. Y.P.S. } Model of a compensation Pendulum.
- * Mr. Hepworth..... A Chemical Test-box.

DONATIONS TO THE LIBRARY.

1825.

FEBRUARY.

- | | | |
|---|---|--|
| Rev. Prof. Buckland, F.R.S.
Hon. Mem. Y.P.S.
(the Author) | } | Vindiciæ Geologicæ, 4to. |
| * Eust. Strickland, Esq.
Sec. Y.P.S. | } | Nummi Britannici Historia, 12mo. |
| John Hogg, Esq. F.L.S.
(the Author) | } | On the Nature of <i>Flustra Arenosa</i> , from
the Linn. Trans. |

MARCH.

- | | | |
|-------------------------------------|---|-------------------------|
| Rev. W. Taylor,
Hon. Mem. Y.P.S. | } | Accum on Coal Gas, 8vo. |
|-------------------------------------|---|-------------------------|

APRIL.

- | | | |
|-----------------------------|---|---|
| * W. Marshall, Esq. F.G.S. | } | Thomson's Chemistry, 4 vols. 8vo. |
| * Arch. Constable, Esq. . . | } | Supplement to Encyclopædia Britannica,
6 vols. 4to.
Edinburgh Gazetteer, 6 vols. 8vo.
Scoresby's Voyage to Greenland, 8vo. |
| Mr. Alex. Barclay. | } | Newtoni Principia, à le Seur et
Jacquier, 4 vols. 8vo. |

MAY.

- | | | |
|---|---|--|
| George Strickland, Esq.
(the Author) | } | Reasons for not pulling down Clifford's
Tower, 8vo. |
| Manchester Literary
& Philosophical Society. | } | Memoirs of the Society, vol. iv. New
Series, 8vo. |
| Mr. J. Awmack. | } | Charters, &c. printed at Philadelphia
by B. Franklin, 1740. |

JULY.

* Eust. Strickland, Esq.
Sec. Y.P.S.

Antiquitates Middletonianæ, 4to.
Marmora Oxoniensia, folio.
Pownall's Provincia Romana, 4to.
Vaillant, Nummi Græci Impp. 4to.
Whitehurst's Inquiry into the formation
of the Earth, 4to. 1778.

Description of Heraclea, 12mo. 1750.
Du Vallii Augustarum Imagines, 8vo.
Hamilton on Vesuvius, 12mo.

Luidii Lithophylacium Britannicum,
8vo. 1760.

Treatise of the Revenue and False
Money of the Romans, 8vo.

Pinkerton on Medals, 2 vols. 8vo.

Addison's Dialogues on Medals, 12mo.

Essay on Medals, 12mo. Dodsley, 1784.

Jennings's Introduction to Medals, 12mo.

Inquiry into Ancient Measures, 8vo.
1721.

Journey from Aleppo to Damascus, 8vo.
1736.

Gregory's Mechanics, 2 vols. and Atlas.

Henry's Chemistry, 5th edit. 8vo.

Ferguson's Lectures, by Brewster, 3 vols.

Ferguson's Astronomy, 8vo.

W. Meade, M.D.
Hon. Mem. Y.P.S.
(the Author)

Experimental Inquiry into the proper-
ties of the Mineral Waters of Ballston
and Saratoga, 8vo.

Mr. J. Broader (the Editor)

Jackson's Lectures, 12mo.

John Hogg, Esq. F.L.S.

Winch's Essay on the Geographical Dis-
tribution of Plants in Northumber-
land, &c. 8vo.

OCTOBER.

Baron Coquebert de
Montbret (the Author)

Observations sur une Carte Géologique
de la France, &c. par d'Halloy and
Montbret, (with the Map.)

- M. Adolphe Brongniart, } Observations sur les Végétaux fossiles
(the Author) } de Hoer en Scanie.
- * Rev. W. V. Vernon, } Watson's Delineation of the Strata of
F.R.S. Pres. Y.P.S. } Derbyshire, 4to.
- Rev. Prof. Buckland, F.R.S. } Hart on the Fossil Deer of Ireland,
Hon. Mem. Y.P.S. } 12mo.
- Royal Asiatic Society } The Society's Transactions, Vol. I.
of Great Britain. } Part I. 4to.

DECEMBER.

- * George Goldie, M.D. } Lister de Fontibus Medicatis Angliæ,
Sec. Y.P.S. } Ebor. 1682. 12mo.
} Dubuisson, Hypothèse de la Solidifica-
} tion du Globe, 12mo.

JANUARY, 1826.

- * W. Marshall, Esq. F.G.S. } Stewart's Natural History, 2 vols. 8vo.
} Kames's Sketches, 2 vols. 8vo.
} Perennial Calendar, 8vo.
- * George Goldie, M.D. } Pennant's Zoology, 4 vols. 8vo.
Sec. Y.P.S. }
- John Macgregor, Esq. An Inquiry into the Age of St. Mar-
garet's Porch, York, 4to.

BOOKS PURCHASED.

- Watson's Dendrologia Britannica, 2 vols. 8vo.
Artis's Antediluvian Phytology, 4to.
Cuvier, Ossemens Fossiles, *completed*.

†† Works in continuation, and Journals, as in last year's Report.

DRAWINGS, PRINTS, AND MAPS.

1825.

FEBRUARY.

Rev. Prof. Buckland, F.R.S. } 8 Lithographic Prints of fossil Saurian
Hon. Mem. Y.P.S. . . . } Animals, from the Geol. Trans.

JULY.

* W. Marshall, Esq. F.G.S. Print of *Actinocrinus moniliformis*, in
Dudley Limestone.

Rev. Prof. Buckland, F.R.S. } 13 Lithographic Plates of fossil bones,
Hon. Mem. Y.P.S. . . . } &c. from the Geol. Trans.

OCTOBER.

* Rev. John Graham Section of Hetton Colliery.

DECEMBER.

* Rev. W. V. Vernon, } Engraving of supposed Magical Tables,
F.R.S. Pres. Y.P.S. . . } found on Gatherly Moor.

JANUARY, 1826.

Mr. J. Browne Engraving of St. Margaret's Porch,

PURCHASED.

Kummer's Map (in relief) of Germany, &c. with a *Memoir*,

DONATION TO THE MUSEUM, OMITTED IN ITS PROPER PLACE.

JANUARY, 1826.

* A. Thorpe, Esq. An Esquimaux Canoe, with the Fishing
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* William Worsley, <i>Hovingham</i>	20	0
George Lloyd, <i>Faceby Lodge</i>	20	0
John Hutton, <i>Sobergate</i>	25	0
John Taylor.....	5	5
Francis Maude, <i>Hatfield Hall</i>	10	10
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Matthew Wilson, <i>Eshon Hall</i>	25	0
* Henry Vansittart, <i>Kirkleatham</i>	50	0
Colonel Lloyd, <i>Kingthorpe</i>	25	0
* Edward Prest.....	15	0
Edward T. Copley, <i>Nether-Hall</i>	20	0
Henry Prest.....	15	0
* John Crosse, <i>Hull</i>	5	5
* Philip Davies Cooke, <i>Oxston</i>	25	0
Thomas Davison Bland, <i>Kippax</i>	25	0
* Richard Ellison, jun. <i>Scarborough</i>	21	0
* William Rookes Crompton, <i>Esholt</i>	20	0
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* Rev. Frederick Kendall, <i>Riccall</i>	5	5
* William Briggs, <i>Clifton</i>	15	0

	£	s.
* William Hall.....	15	0
John Arthington Leatham, <i>Heath</i>	10	0
William Henry Leatham, <i>Heath</i>	10	0
* John Marshall, <i>Headingley</i> , (<i>President of the Leeds Philosophical Society</i>).....	50	0
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* Samuel Hailstone, <i>Croft House</i>	15	15
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* Rev. J. B. Graham.....	10	10
Henry Gally Knight, <i>Firbeck Hall</i>	25	0
John Wentworth.....	25	0
* James Rishworth.....	25	0

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FEBRUARY, 1826,

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Atkinson, Peter, *York.*

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 York, Dean of, *Deanery, York*

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John Griscom, *Professor of Chemistry in the New York Institution.*

M. Soret, *Geneva.*

Baron Alexander Von Humboldt.

William Meade, M. D. *Philadelphia.*

Presented
13 MAR 1888



21 MAR 1839

L A W S

AND

R E G U L A T I O N S

OF THE

Workshire **P**hilosophical **S**ociety,

INSTITUTED DECEMBER, M. DCCC. XXII.

YORK :

PRINTED BY W. ALEXANDER AND SON, CASTLEGATE.

1826.

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LAWS OF THE SOCIETY,

AS AMENDED AT THE ANNUAL MEETING,

FEBRUARY SEVENTH, MDCCCXXVI.*

SECTION I.

MEETINGS.

I. An Annual Meeting of the Society shall be held on the first Tuesday of February, which shall have power to elect Officers and Members of the Council, to enact new Laws for the Society, and to alter and repeal existing Laws; but no enactment, alteration, or repeal of a Law shall take place, unless a specific notice thereof in writing, signed by five Subscribing Members, shall have been put up in the Library for one month previous to the Meeting.

Annual Meeting.

II. General Meetings shall be held on the *First* Tuesday of January, March, April, July, October, November, and December. At these meetings, scientific Communications shall be received, subjects of Science discussed, Donations presented, and new Members elected.

General Meetings.

III. Special Meetings summoned by the Council, shall have the same powers as the Annual Meeting; provided that a notice have been issued a week before, to every subscribing Member residing within the County, specifying the object of the Meeting; to which object its proceedings shall be confined.

Special Meetings.

* The additions and alterations then adopted are marked in Italics.

Adjourned Meetings.

IV. Adjourned Meetings shall have the same powers as the Meetings from which they were adjourned.

Right of Voting.

V. Subscribing Members alone, shall have the right of voting at a Meeting.

Chairman in President's absence.

VI. If the President shall not attend any General Meeting, he shall appoint a Vice-President or Member of the Council to take the Chair, and shall communicate the appointment to the Secretaries. In failure of such communication, the Council shall elect a Chairman for the Meeting.

Hours of Meeting.

VII. The Chair shall be taken at the Annual Meeting at Twelve o'Clock at noon; at the General Meetings, at One o'Clock P. M. or as soon afterwards as Five Members shall have assembled.

Decision of Questions.

VIII. Questions proposed at a Meeting shall be determined by a majority of votes; and if the votes be equal, the Chairman shall have a second, or casting vote.

SECTION II.

OFFICERS AND COUNCIL.

Officers.

I. A President and Vice-Presidents, a Treasurer, and Secretaries, shall be chosen out of the Subscribing Members, every year, at the Annual Meeting, and shall be re-eligible from year to year.

Council.

II. The Affairs of the Society shall be conducted, in conformity with the Laws, by these Officers, and a Council consisting of twelve Subscribing Members.

III. Four new Members of the Council shall be chosen yearly, out of the Subscribing Members of the Society, at the Annual Meeting; the supernumerary Members of the former Council retiring in the order of seniority, (or, where the seniority is undetermined, by lot,) and not being re-eligible for the current year.

Election
of Council.

IV. There shall be laid before each Subscribing Member present at the Annual Meeting, a List of all the Subscribing Members of the Society, and also a Balloting Paper. On the latter, each Member shall write the names of those whom he desires to fill the several Offices, and shall deliver it, folded up, to the Chairman. The Chairman shall appoint two Scrutineers to examine the balloting papers; and those Members who have the greatest number of votes for the respective Offices, shall be thereby elected to fill them. The Chairman shall announce the result of the election to the Meeting, which shall then proceed in like manner to the election of the new Members of the Council.

Mode of
Election of
Officers &
Council.

V. The President, Vice-Presidents, Treasurer, and Secretaries, shall be ex-officio Members of the Council.

Ex-officio
Members of
the Council.

VI. The Council shall meet at One o'clock on the Monday preceding each general Meeting; and at other times, if occasion shall require, on a summons issued not later than two days before, to every Member of the Council within twenty miles. The presence of Five Members shall constitute a meeting of the Council.

Meetings
of the
Council.

VII. The Chair shall be taken in the Council, in the same manner as at the General Meetings.

Chair.

VIII. Questions proposed in the Council, shall be decided by the majority of votes; and if the votes are equal, the Chairman shall have a second, or casting vote.

Decision of
Questions.

Curators. IX. The Council shall appoint Curators, who, with the President and Secretaries, shall have the superintendence of the several departments of the Museum, and of the Library, and shall prepare Catalogues of the same.

Curators' Report. X. Previous to the Annual Meeting, the Curators shall make a Report to the Council, of the additions made in the course of the year to their respective departments.

Treasurer's Report. XI. The Treasurer shall make a quarterly Report to the Council, of the state of the Society's Funds.

Council's Report. XII. The Council, at the Annual Meeting, shall present a Report of the state of the Society's Funds, the progress of the Library and Museum, and the general advancement of the objects of the Society; and the Report, if approved by the Meeting, shall be printed and sent to the members.

SECTION III.

ELECTION OF MEMBERS.

**Proposal of
Subscribing
Members.**

I. The proposal of a Subscribing Member shall be in the following form, signed by three members of the Society, and shall be hung up in the Library, for one week previous to the ballot:

_____ of _____ being desirous of becoming a Member of the Yorkshire Philosophical Society, we, whose names are undersigned, do recommend him as a proper person to be a Member thereof.

(Date.)

(Signatures.)

II. Honorary Members shall be proposed by the Council, and no previous notice shall be required. Proposal of Hon. Members.

III. The ballot for a Candidate shall take place at a General Meeting, and if three-fourths of the Subscribing Members present vote in the affirmative, he shall be admitted into the Society. Ballot for Members.

IV. *An Honorary Member desirous of becoming a Subscribing Member, shall be proposed and balloted for as directed by Articles I. and III. of this Section.* Hon. Members becoming Subscribing Members.

SECTION IV.

PAYMENTS OF MEMBERS.

I. Each Subscribing Member shall pay to the Treasurer Five Pounds on his admission, and an Annual Subscription of One Pound on every first day of January following. Admission money and Subscription.

II. A Member may compound for his future annual subscriptions by a payment of *Twenty Pounds*; and, having so compounded, he shall be entitled to all the privileges of a Subscribing Member. Composition.

III. *Contributors of Fifteen Pounds or upwards to the Building Fund,* and Honorary Members becoming Subscribing Members, shall be exempted from payment of admission money.* Exemptions from admission money.

IV. *If any Member do not pay his arrears within three months after notice thereof has been sent to him, his Privileges shall be suspended, until the same be paid.* Penalty for non-payment of Arrears.

* By Resolution 5th of a Special Meeting, May 2d. 1825. (See p. 12)

SECTION V.

PROPERTY.

Property in
whom vested.

I. The Property of the Society is, and shall be, vested in the Subscribing Members.

Exchange of
Specimens.

II. The Council shall be authorized to exchange specimens belonging to the Society, with other Institutions or individuals, in such manner as they may judge conducive to the interests of the Society and Science; such specimens excepted, as shall have been given to the Society under restrictions to the contrary.

Purchases &
Disbursements.

III. The Council shall be authorized to make purchases, and give orders on the Treasurer, upon the Society's account.

SECTION VI.

MUSEUM AND LIBRARY.

Access to
Museum
& Library.

I. Members, both Subscribing and Honorary, and Strangers accompanied by a Member, shall have access to the Museum and Library, subject to such restrictions and regulations as the Council shall appoint.

Circulation
of Books.

II. Such of the Society's Books, as in the judgment of the Council can be permitted to circulate, shall be sent out to Subscribing Members resident within the County, under such regulations and penalties as the Council shall appoint.

PRIVILEGES OF CONTRIBUTORS

TO THE

BUILDING FUND.

At a Special Meeting of the Yorkshire Philosophical Society, held
May 2nd, 1825,

RESOLVED—That the following Privileges be given to **CONTRIBUTORS** to the **BUILDING FUND**, who are not Members of the Society:—

1. A Contribution of Fifty Pounds and upwards, shall entitle the Contributor, for life, to personal admission to the Museum, with the power of introducing Visitors; and to personal admission to the Library, and to the Scientific part of the General Meetings.

2. A Contribution of Twenty-five Pounds and upwards, shall entitle to personal admission to the Museum and Library, for life, with the power of introducing Visitors to the Museum.

3. A Contribution of Fifteen Pounds and upwards, shall entitle to personal admission to the Museum, for life, with the power of introducing Visitors.

4. A Contribution of Ten Pounds shall entitle a Lady to personal admission to the Museum, for life, with the power of introducing Ladies as Visitors.

5. A Contributor of Fifteen Pounds and upwards, may, at any future time, on being duly balloted for, be admitted a Member of the Society, without payment of Admission Money.

REGULATIONS

CONCERNING THE MUSEUM AND LIBRARY.

I. The Museum and Library shall be open to Members, and Strangers introduced and accompanied by a Member, from Ten A. M. to Eight P. M. daily, during May, June, July, and August, and from Ten to Four during the remainder of the year.

II. Members wishing to read in the Library, shall apply to the Servant (in the absence of the Secretaries) for the key of the Book-cases; and shall replace the books, and return the key, before leaving the Rooms.

III. Subscribing Members alone shall be permitted to have Books out of the Library.

IV. Members wanting Books out of the Library, shall apply in person, or by letter addressed to the Secretaries, at the Society's Rooms, on Tuesdays, Thursdays, and Saturdays, from Ten to Two o'Clock.

V. No Member shall have more than two Volumes at a time out of the Library, unless with the permission of the Council. The time for which each book may be kept, shall be marked on the cover by the Secretaries.

VI. Quarterly Publications shall lie on the table three months ; Monthly Publications and all other New Works one month ; and during that time shall not be taken from the Rooms. A list of the Books not permitted to circulate, shall be hung up in the Library.

VII. Books *sent back* to the Library, must be directed to the Secretaries. Books *brought back* by Members, must be delivered to the Secretaries, or Keeper of the Museum ; or, in their absence, to the Servant. No Book shall be replaced on the shelves, or re-issued, until examined by the Secretaries.

VIII. A Member may have a book re-issued to him, at the expiration of the time allowed, provided that no other Member have applied for it.

IX. Books shall be sent for, and returned, at the individual expense of Members ; and the Member taking out or sending for any Book, shall be answerable for any damage it may sustain during its absence from the Library.

X. A Member keeping a book beyond the time allowed, shall be fined Sixpence per day. Any other contravention of the above Rules shall incur a Fine of Five Shillings ; and until such Fine is paid, the Member incurring it shall not be permitted to take out Books.



ANNUAL REPORT

OF THE COUNCIL,

OF THE

Yorkshire Philosophical Society,

FOR

MDCCCXXVI.

YORK :

PRINTED BY W. ALEXANDER AND SON, CASTLEGATE.

1827.

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EARL OF TYRCONNEL, F.G.S.

VISCOUNT MILTON, F.R.S. F.S.A.

LORD STOURTON.

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JAMES ATKINSON..... COMPARATIVE ANATOMY.
REV. J. B. GRAHAM.... ORNITHOLOGY.
THOMAS BACKHOUSE.... ENTOMOLOGY.
REV. C. WELLBELOVED.. ANTIQUITIES AND COINS.
EUST. STRICKLAND..... LIBRARY.
-

KEEPER OF THE MUSEUM:

JOHN PHILLIPS.

BUILDING COMMITTEE,

APPOINTED IN PURSUANCE OF A RESOLUTION OF THE
COUNCIL, MARCH 7th, 1825.

GENERAL COMMITTEE.

HIS GRACE THE ARCHBISHOP OF YORK,	}	PATRONS OF THE SOCIETY.
EARL OF CARLISLE,		
EARL OF TYRCONNEL, F.G.S.		
VISCOUNT MILTON,		
LORD STOURTON,		
LORD WHARNCLIFFE,		
LORD MACDONALD,		

REV. W. V. VERNON, F.R.S. PRESIDENT OF THE SOCIETY.
JOHN HUTTON, OF MARSKE, HIGH SHERIFF 1825.
WILLIAM OLDFIELD, LORD MAYOR OF YORK 1825.
HON. EDWARD R. PETRE, STAPLETON PARK.
HON. SIR R. L. DUNDAS, K.C.B. UPLEATHAM.
SIR GEORGE CAYLEY, BART. BROMPTON.
SIR FRANCIS L. WOOD, BART. HEMSWORTH.
SIR J. V. B. JOHNSTONE, BART. HACKNESS.
SIR JOHN LOWTHER, BART. M.P. SWILLINGTON.
SIR JOHN CROFT, BART. F.R.S.

SIR W. M. MILNER, BART. NUN APPLETON.
 RICHARD BETHELL, RISE.
 PHILIP DAVIES COOKE, F.G.S. OWSTON.
 WILLIAM ROOKES CROMPTON, SION HILL.
 BARNARD CLARKSON, KIRKHAM ABBEY.
 WILLIAM DANBY, SWINTON PARK.
 JOHN DALTON, SLENINGFORD.
 BENJAMIN DEALTRY, LOFTHOUSE HALL.
 RICHARD ELLISON, JUN. SCARBOROUGH.
 FRANCIS HAWKSWORTH FAWKES, FARNLEY.
 JAMES HAMERTON, HELLIFIELD.
 JOHN HUSTLER, UNDERCLIFFE.
 ANDREW LAWSON, ALDBOROUGH.
 THOMAS MEYNELL, FRIARAGE.
 REV. BENJAMIN NEWTON, F.L.S. WATH.
 REV. T. C. R. READ, SAND HUTTON.
 WILLIAM SALMOND, F.G.S.
 E. S. STRANGWAYES, ALNE.
 GEORGE STRICKLAND, M.W.S. NEWTON.
 REV. CHRISTOPHER SYKES, ROOSS.
 P. BEILBY THOMPSON, M.P. ESCRICK.
 RICHARD J. THOMPSON, KIRBY HALL.
 HENRY VANSITTART, KIRKLEATHAM.
 RICHARD FOUNTAYNE WILSON, M.P. MELTON.

 SUB-COMMITTEE.

THE PRESIDENT,	}	EX-OFFICIO.
THE TREASURER,		
THE SECRETARIES,		
THE DEAN OF YORK,		

BUILDING COMMITTEE.

JAMES ATKINSON,
H. S. BELCOMBE, M.D.
JOHN BELL,
FRANCIS CHOLMELEY, F.H.S.
REV. ROBERT CROFT,
ROBERT DENISON, JUN.
REV. W. H. DIXON, F.S.A.
REV. ARCHDEACON EYRE,
REV. JOHN GRAHAM,
HON. AND REV. H. HOWARD,
REV. ARCHDEACON MARKHAM,
WILLIAM MARSHALL, F.G.S.
JOHN PEMBERTON,
MR. ALDERMAN SMITH,
EUST. STRICKLAND,
ANTHONY THORPE,
DANIEL TUKE,
J. D. TWEEDY, F.H.S.
BALDWIN WAKE, M.D.
REV. C. WELLBELOVED,
J. T. WHARTON.

SECRETARY TO THE COMMITTEE:

WILLIAM WRIGHT.

REPORT,

PRESENTED TO THE ANNUAL MEETING OF THE SOCIETY,

FEBRUARY 6th, 1827.

IN the review of the Society's proceedings during the past year, which it is the duty of the Council to lay before the Annual Meeting, they are led by the documents which they now produce, to remark, in the first place, upon the number and value of the acquisitions which the Society has made, compared with the expenditure of its funds.

It will be remembered that, in the last report of the Treasurer, there remained, on the general summary of the accounts, a balance of Eighty-one Pounds against the Society; and though, to meet this balance struck on the thirty-first of December, the subscriptions due in the following January were available, and the debt might so far be considered as little more than nominal, it yet appeared to the Council indispensably necessary to guard against any further anticipation of the Society's resources.

With this view, a Committee was appointed at the commencement of 1826, to examine the accounts, and to estimate the probable demands of the ensuing twelvemonth, and the means of defraying them which the Society might be calculated to possess. The regulations recommended by the Committee were adopted; and the result has been, that the expenditure of the year has fallen somewhat within the receipts.

The limitations of purchase, to which it has been necessary to adhere, have put to the test the reliance which may be placed upon the principle of gratuitous contribution. To this principle it was determined to trust altogether, except so far as regarded the payment for books already subscribed for; and yet the Council have the pleasure of presenting a long list of additions both to the Library and the Museum. By the returns of the Curators, it appears that ONE THOUSAND SIX HUNDRED geological specimens, ONE HUNDRED and TWENTY-EIGHT minerals, and SEVENTY-NINE specimens in natural history, have been contributed since February last; the number of coins and other objects of antiquarian research has amounted to NINETY-SEVEN, and no fewer than TWO HUNDRED volumes have been added to the Society's shelves.

That, in the fifth year from its institution, the Society should have such obligations to acknowledge, is a just subject of congratulation; since the support which it enjoys cannot now be suspected to be of an accidental or temporary nature.

In the course of four years, there have been accumulated in this provincial collection, NINE THOUSAND ONE HUNDRED AND EIGHTY-THREE specimens in the departments of Geology and Mineralogy alone, of which EIGHT THOUSAND TWO HUNDRED AND TWO have been donations. A Museum thus supported cannot fail to rise into importance; and this kind of support an institution may usually expect, which shows itself careful in preserving the objects of science entrusted to its keeping, and capable of turning them to account.

The condition, which those who contribute such objects to a public institution are entitled to demand, is, that they shall be made more instructive than they could have been in private hands; a condition too often very little attended to, or, from a want of regular arrangement, very imperfectly fulfilled. It has always been kept in view by this Society; and the order which has been, from the first, observed in entering donations on the inventories of the Museum, and classing them on its shelves, has saved it from the embarrassment of an useless heap of undistinguished specimens. The Council have the satisfaction of adding, that the appointment made in the beginning of the year, which secured to the Institution the valuable services of Mr. Phillips, has enabled them to realize still more completely their wishes in this respect, and to render the Society's collection much more accessible and instructive.

But though, where a spirit of liberal contribution exists, a Society, which has obtained the confidence of the public, may

fulfil many of its objects with very limited funds, it is obvious that all its efficiency must be lost, if its finances should ever fall short of allowing it to do justice to that liberality. During the past year, the donations received have been disposed of, indeed, without disorder and with very little expense; but this has been effected only by economical contrivances, which cannot long continue to avail; and the Meeting must be reminded that half the salary of the Keeper of the Museum has been paid by private subscription. By the same method it will be again defrayed for the present year; but the renewal of the subscription cannot be counted upon for a longer period. The Meeting will also see, on reference to the Treasurer's report, that the income of the last year only rose to a level with the necessary expenses, by including the sums paid on admission by nine new members. It is therefore apparent that the Society cannot maintain itself in its present state of efficiency, without either a considerable addition to its numbers, or some advance of its subscriptions. The Council are fully aware that no greater error can be committed, in an association for the advancement of knowledge, than to fix its terms too high; and they have been unwilling to propose any advance, while it remains uncertain what the number of members may ultimately be. In the mean time, they would venture to suggest to all who feel an interest in the Society, that one of the most important methods by which they can befriend it, is to exert their personal influence in enlarging the list of its subscribers.

The inventories or lists of donations laid before these meetings, can only imperfectly represent the value of the contributions described in them. Hereafter, it may be hoped that, by publishing a *Catalogue raisonné* of what it possesses, the Society may at once give a more adequate account of its obligations, and render an important service to science. At present, a brief survey of the most material features in the contributions of the last year, may not be unacceptable to the Meeting.

Among the GEOLOGICAL donations, is included a large accession of the remains of antediluvian quadrupeds from the coast of Norfolk, and from the caves at Banwell and Tor-Bay. Those from Tor-Bay were accompanied by an interesting communication from the donor,¹ who, having placed a similar collection in the hands of M. Cuvier, had obtained his opinion respecting them. That eminent naturalist found one of the specimens, a cast of which is in the Society's Museum, to be the canine tooth of that species of Bear, which he has named *Ursus cultridens*; an animal of which no remains had been previously known, except a specimen of an entire skull, found in the Val d'Arno, and deposited in the Museum at Florence. The similarity of fracture which prevails in the bones found in this cave, is noticed by Mr. M'Enery; and the marks of teeth upon them are particularly remarked by M. Cuvier, who states that these may be more distinctly traced in the English specimens, than in any other which he has seen.

¹ The Rev. John M'Enery.

Three hundred rock specimens from the Harz, accompanied by a German catalogue, which has been translated by one of the members of the Society,¹ constitute the fourth liberal donation for which the Museum is indebted to Mr. Heüland; and one hundred and fifty species of corallines and shells, from the *calcaire grossier* of Grignon, have been presented to the foreign collection by Mr. Tasburgh.

Several interesting specimens have been added² to those formerly sent from the mountain limestone of Northumberland, which show that some of the generalizations in which geologists have indulged, respecting the distribution of fossils; are premature. This addition includes, besides patellæ and echinal spines, a saurian vertebra, and an impression of a fern analogous to those which occur in the coal-measures. The donor has communicated his observations on the rocks from which these fossils are derived; and, in correction of a common geological error, states that coal of a good quality, and in great abundance, occurs in the lower part of the limestone series.

Numerous shells have been contributed from the crag of Norfolk and Suffolk,³ and some beautiful crinoidal fossils from the oolite of Gloucestershire.⁴ There has also been placed in the Society's cabinets a specimen of the head of the

¹ The Rev. J. Kenrick.

² By the Rev. C. V. Vernon.

³ By the Rev. T. H. Croft and Mr. Sparshall.

⁴ By the Countess of Denbigh.

Crocodile, from the lias at Whitby,¹ which has been for some time in the hands of Mr. Conybeare, who has cleared away the matrix, and developed the bones. A similar improvement has been bestowed on a portion of the lower jaw of the same animal from the coralline oolite of Malton,² by another eminent Member of the Society,³ whose masterly chisel sometimes leaves the works of Art, to lend its aid to Science.

The Yorkshire collection has also been enriched by an extensive suite of fossils,⁴ containing some new crustaceous kinds, from the grey shale near the base of Scarbro' Cliff, which Mr. Smith has identified with the Oxford Clay; and a series has been placed in the Museum,⁵ illustrative of the course of the strata from the Humber to Northallerton, and including characteristic specimens from the Kimmeridge clay, the Kelloways rock, the inferior oolite, and the lias. But the most valuable geological present which the Society has received, is a map of the north-eastern part of Yorkshire, in which Mr. Smith has laid down with accuracy his recent discoveries. He has, at the same time, announced his expectation of completing, in a short time, his description of the whole county, on the excellent sheets lately published by Mr. Cary; and proposes to accompany his map with a work comprising a detail of the numerous observations on which

¹ Presented by Mr. Bird.

² Presented by Mr. Pickering.

³ F. Chantrey, Esq. F.R.S. & R.A.

⁴ Presented by Mr. Dunn and Mr. Bean.

⁵ By the President and Mr. Phillips.

the colouring is founded. The Council cannot forbear from expressing a strong hope, that this work will be patronized by liberal subscriptions, and afford the author some remuneration for a long life of successful, but ill rewarded, labour in the service of science.

The Literary and Philosophical Society of Whitby having presented an interesting specimen of the paddle-bones of the Plesiosaurus, the Council have sent in return a cast of the lower jaw of that animal ; and it is their intention to have a series of casts made from the best fossil specimens in the Museum, for the purpose of exchange with other Institutions. An acknowledgment has been received from the Asiatic Society, of the series of Yorkshire fossils not long since sent to Calcutta ; and, at the request of a distinguished scientific foreigner, ¹ who visited the Institution in the last summer, a similar series has been forwarded to the Museum of Natural History at Geneva. Count Sternberg has communicated to the Society, the names which he proposes to assign to the fossil plants which the Council had sent to the Museum at Prague ; and adds, as the result of his examination of them, that “the inferior oolite of Saltwick ² includes genera of plants belonging both to the tertiary and secondary flœtz formations ; and that it may be consequently considered as on the line of transition of two epochs of vegetation, either of them, however, more ancient than the lignites, where the dicotyledonous plants begin to be observed.” ³

¹ Professor de la Rivé.

² Near Whitby.

³ Remains of dicotyledonous plants occur in the lias ; but no specimens of this kind were among those transmitted to Count Sternberg, which were from intermediate beds between the oolite and lias.

The MINERALOGICAL donations have been less numerous than in the preceding year; but among them are some specimens of uncommon excellence and value. In this department, some new analytical notices have been communicated to the Society; among the most interesting of which, are the discovery¹ of the oxide of chrome in the orange-coloured phosphate of lead, and the analysis² of a mineral water which occurs in this county, containing a large proportion of carbonate of soda. All the minerals in the collection have been accurately examined and classed by the Curators, assisted by the Keeper of the Museum; and a catalogue, in which they are described, and their crystalline characters marked, has been completed, with a care and industry, for which the Society has reason to be grateful.

It gives the Council pleasure to remark, that more attention has been shown to some of the other branches of NATURAL HISTORY, than they formerly obtained. Several objects of interest in Zoology and Comparative Anatomy have been contributed, illustrating the external characters, and structure of the skeleton, in some remarkable species of quadrupeds, reptiles, and fishes. Thirty-eight specimens have been added to the collection of birds. And though, in the entomological department, but few donations have, of late, been received, the Curator reports, that those which are already in the Museum have been the means of drawing the attention of many persons to the subject, who have begun to collect

¹ By the President.

² By Mr. F. S. George, F.L.S.

Insects, and will doubtless be well disposed to enrich the repository which first gave them a taste for the pursuit.

Anxious for the promotion of these studies, the Council have engaged Mr. Phillips to deliver a course of lectures on a part of natural history, which is less generally known than the rest, but not less wonderful and instructive. An account of the Invertebral Animals, illustrated by original drawings, and collected in great measure from personal observation, cannot fail to interest those who delight in contemplating the varied forms and admirable contrivances of creation. In the intervals, or at the conclusion, of this course, two lectures on Electro-Magnetism will be given by one of the honorary members of the Society,¹ whose name alone would be sufficient to attract an audience, if the subject, on which Mr. Scoresby has offered to lecture, were not itself, from the new and important field of investigation which it opens, the most inviting, at the present moment, of any in the whole range of experimental philosophy.

Whilst the Museum has been enriched with specimens, the LIBRARY has received a more than ordinary number of volumes, many of which will be of great utility as books of reference. Among these, the Lexicon of Rasche is a very valuable present to the antiquarian student; but still more valuable is the offer which has been made by the donor of the work and Curator of this department, to give his

¹ The Rev. W. Scoresby, F.R.S. L. & E.

attendance weekly, at a stated hour, in order to afford opportunities to members for inspecting that part of the Society's collection, which must necessarily be locked up in the drawers of a cabinet.¹

Over one record of friendly feeling,² which the list of ANTIQUARIAN donations presents, the Council cannot pass, without changing the language of congratulation into that of condolence. When the Curator of Antiquities was deprived of his lamented Colleague, the Council had to deplore a valued coadjutor, and the Society lost a zealous and a useful friend.—The acquisitions in this branch of knowledge, though not numerous, include some objects worthy of the notice of the Meeting. Among these are, the medal of Cranmer, presented by the Archbishop of York, the monastic antiquities received from the author of the History of Hallamshire,³ and a donation from Mr. Dalton, in a peculiar degree interesting to this Society, the ancient Seal of ST. MARY'S ABBEY.

It is impossible that the Council should advert to the interest attending the remains of St. Mary's Abbey, without feeling that an explanation is due to the Meeting, of the delay which has taken place in executing the design connected with those venerable ruins. In the spring of last year, Lord

¹ The Curator proposes to attend at the Museum for this purpose, every Wednesday, from one to two o'clock, except during the autumn vacation.

² Coins and Antiquities presented by Mrs. Drake.

³ The Rev. Joseph Hunter, F.S.A.

Grantham having signified to the Crown his willingness to resign a portion of the Manor Shore in favour of the Society, and the Office of Woods and Forests having made their report, an official notification was received from the Treasury, intimating that their Lordships were ready to treat with the Society for a lease of the ground; but stating that their power of making grants of Crown land for the benefit of scientific institutions, was found to be confined to property situate within the bills of mortality.¹ On this point, therefore, the Council have to correct an error in their last Report, in which it was stated that the law had left a power with the Executive, to grant whatever favor it may think fit, to charitable and scientific institutions. But they have great satisfaction in repeating the other part of their statement, that, up to the present moment, the public functionaries have manifested every disposition to favor the views of the Society.

Under these circumstances, the Council were of opinion that it would still be desirable to embrace the offer of the Treasury, and to obtain a long lease of the ground. But an interview, which the President of the Society soon afterwards had with the Chancellor of the Exchequer, induced a hope that the beneficial arrangement originally contemplated might become practicable, if the Society would consent to wait. Events, over which the Council had no control, have protracted the official determination on this subject; and, until it should be decided, nothing further could prudently be

¹ Act 56 Geo. III. C. 128. § 83.

done. The answer, however, is now shortly to be expected; and, in that expectation, Lord Grantham has been requested to direct the necessary arrangements to be made, for putting the Society into early possession of the ground.

It is the full intention of the Council, if their views on this subject should have the concurrence of the Meeting, to prepare, in any event, to build on this interesting and advantageous site, and to proceed with the least possible delay. The increasing embarrassment of a large collection, accumulated in too narrow a compass, continually urges upon them the necessity of removing it to more spacious premises; and,—though they will not allow themselves to do with precipitation what is to be done in perpetuity, and are well aware that, in the transaction of public business, patience is a quality no less requisite than zeal,—they are eager, nevertheless, to push forward a work, the speedy execution of which they consider as essential to the prosperity of the Institution, and important to the interests of Science.

The Society will have no reason to regret the time which has been occupied in these negotiations, if it shall have been the means of augmenting the subscriptions to the BUILDING FUND. Even during the late period of public depression, some liberal contributions have been added to it; and, at a time of reviving confidence, more may be reasonably expected. The character of the Society is now known and appreciated: each successive Report has enabled the public to form a better estimate of its pretensions; and the Council cannot but indulge a hope, that the present sketch of its pro-

ceedings will not diminish the favor with which its designs and exertions have been viewed.

The time is now at hand, for determining the form and dimensions of the edifice which is to be raised; and, as the scale on which it shall be constructed must depend on the extent of the subscription, those who wish to see a comprehensive plan for the promotion of science in the North of England adequately executed, must not delay to extend to it such a support, as may render the character of the fabric commensurate with the magnitude of the design.

MEMOIRS AND COMMUNICATIONS

READ TO THE SOCIETY IN 1826.

JAN. 10th.—On the Probable antiquity of the Porch of St. Margaret's Church, York, by John Browne, artist: (*communicated by Rich. Drake, Esq. M. Y. P. S.*)

FEB. 7th.—Analysis of limestones from Huddleston and Fairburn, by E. S. George, F.L.S. Hon. Mem. Y.P.S.

Account of the discovery of oxide of chrome in the *orange* phosphate of lead, and of manganese in the *green* phosphate; by the Rev. W. V. Vernon, F.R.S. Pres. Y.P.S.

MARCH 7th.—On the mountain limestone and coal series of Northumberland, by the Rev. C. V. Vernon, M. Y. P. S.

APRIL 4th.—On the Geology of the district around Cave, by the Rev. W. V. Vernon, F.R.S. Pres. Y.P.S. (*illustrated by a map and drawings, by J. Phillips, Hon. Mem. Y.P.S.*)

Account of entomological Systems and Authors, by P. W. Watson, F.L.S. Hon. Mem. Y.P.S.

JULY 4th.—On the course and appearances of the great whin-dyke, and the position of the red marl and sandstone, in Cleveland; by the Rev. Leveson V. Vernon, M. Y. P. S.

Letter to the President, on the botanical characters and

geological æra of fossil plants from the neighbourhood of Whitby ; by the Count de Sternberg.

Account of fossil bones discovered in Kent's-Hole cavern, Tor-Bay, by the Rev. J. M'Enery ; with notices by Baron Cuvier and Dr. Buckland : (*communicated by G. Strickland, Esq. M. W. S. & Y. P. S.*)

OCT. 3rd.—Account of ancient Forests in Anglesea, &c. by P. Sandoz, Hon. Mem. Y. P. S.

Nov. 7th.—On the probable direction of diluvial currents over parts of Yorkshire and neighbouring counties, by J. Phillips, Hon. Mem. Y. P. S.

JAN. 2. 1827.—Analysis of a sulphuretted mineral water near Leeds ; by E. S. George, F. L. S. Sec. Leeds Phil. and Lit. Soc. and Hon. Mem. Y. P. S.

Account of a sulphur-yellow mineral from Keswick,* consisting of carbonate of zinc and manganese ; by the Rev. W. V. Vernon, F. R. S. Pres. Y. P. S.

* Presented to the Museum by Mr. Copsie.

APPENDIX TO THE REPORT :

CONTAINING

DONATIONS TO THE MUSEUM AND LIBRARY,

SUBSCRIPTIONS TO THE BUILDING FUND,

AND

LIST OF MEMBERS OF THE SOCIETY.

*It is requested, that all Letters and Parcels may
be directed to THE SECRETARIES OF THE YORKSHIRE
PHILOSOPHICAL SOCIETY, YORK.*

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

1826.

FEBRUARY.

- | | |
|---------------------------------------|--|
| Mr. H. F. Smith,
Hon. Mem. | } Impressions of Fish in siliceous Limestone, from Brasselton, co. Durham. |
| Rev. W. Richardson..... | } Singularly formed masses of Magnesian Limestone, from Huddlestone.
} Fossil Wood and Nuts, found in digging the Canal near Ferrybridge. |
| Mr. E. S. George, F.L.S.
Hon. Mem. | } Phytolithus stellatus, from the Millstone Grit, Bramley near Leeds. |

MARCH.

- | | |
|------------------------|---|
| W. Whytehead, Esq..... | Diluvial remains of Elephant, &c. from Hornsea. |
| Rev. J. Graham..... | Phytolite in Coal, from Silkstone. |
| Mr. D. Tuke..... | Specimens from Cumberland. |
| Rev. J. B. Graham..... | Fossils from several Strata of the Yorkshire coast. |

APRIL.

- | | |
|--------------------------------------|--------------------------------------|
| H. Heüland, Esq. F.G.S.
Hon. Mem. | } 300 Rock Specimens, from the Harz. |
|--------------------------------------|--------------------------------------|

Rev. E. Coulthurst.....	29 Fossils from the Mountain Limestone of Craven.
Mr. S. Woodward, (<i>by Mr. Copsie</i>)	} 31 Fossils from the Chalk and Crag Strata, near Norwich.
Mr. Sparshall (<i>by ditto</i>)..	
Mr J. Bell (<i>by ditto</i>)....	Fossil Plants, and <i>Unio acutus</i> , from the Northumberland Coalfield.
Oswald Allen, Esq.....	Sandstone Nodule, from Scotland.
Rev. W. V. Vernon & Mr. J. Phillips,	} 148 Specimens to illustrate the Geology of the district round Cave.

JULY.

W. Clay, Esq. (<i>by Rev. Archdeacon Eyre</i>)	} Siliceous Fossil Wood and Corallines, from Antigua.
Rev. C. J. Latrobe, F.G.S. Hon. Mem.	
Rev. W. Richardson.....	23 Specimens, chiefly from the Magnesian Limestone, near Ferrybridge.
Mr. J. Thompson.....	Alcyonite from Bridlington.
Mr. T. Backhouse.....	Lower jaw of Deer, from peat, Owthorne, Holderness.
Rev. E. Stillingfleet.....	Specimens from Hotham.
Mr. J. Bird, Hon. Mem.,	Plagiostoma, from the Lias, Whitby.
Mr. H. F. Smith, Hon. Mem.	} Specimens from the Magnesian Limestone, co. Durham.
Rev. W. Bulmer & Mr. J. Phillips,	
Bishop of Bath and Wells, (<i>by the President</i>)	} 29 Bones and teeth of Quadrupeds, from Banwell Cave, Somerset.
Rev. Sir C. Anderson, Bart.	
	Stalactite from Lincolnshire.

- Rev. L. V. Vernon: 94 Specimens illustrative of the Geology of the vicinity of Stokesley.
- Rev. W. V. Vernon & Mr. J. Phillips, } 16 Specimens from the neighbourhood of Brandsby and Craike.
- M. Tasburgh, Esq. } 150 Species of Fossil Shells and Coralines, from the Calcaire Grossier, at Grignon, near Versailles.
- W. Salmond, Esq. F.G.S.. Fossil Plants from Bramley, near Leeds.
- Whitby Lit. & Phil. Society. Specimens from Robin Hood's Bay, &c.
- G. Goldie, M.D. Sec. . . . Fossil Wood in Sandstone, Whitby.
- Marquess of Stafford, } 10 Species of Fossil Shells from the London and Plastic Clays, found in a well at Richmond, Surrey.
(*by the President*)
- Rev. J. M'Enery (*by G. Strickland, Esq.*) } 28 Specimens and Casts of Teeth and Bones of Bear, Hyæna, Tiger, Horse, Rhinoceros, Ox, Deer, Elk, &c. from Kent's-Hole Cavern, Tor-Bay.

OCTOBER.

- J. Hamerton, Esq. Tubiporæ, from the Mountain Limestone, Craven.
- Mr. T. Backhouse. Tibia of Ox, and portion of Cranium of Deer, from Owthorne, Holderness.
- Mr. Sandoz, Hon. Mem. . . . Specimens from the Salt-mines, Northwich.
- Rev. W. Richardson. Petrified Nut, from the alluvium, Ferrybridge.
- W. Salmond, Esq. F.G.S.. Fossil Plants, from Bramley.
- Mr. Bean, Hon. Mem. 18 Fossils from the Oxford Clay, Scarborough Castle Hill.
- Bishop of Bath and Wells, } 51 Bones and teeth from Banwell Cave.
(*by the President*)
- Rev. W. Bulmer. Ammonite from Crambe.

Rev. W. V. Vernon & Mr. J. Phillips,	} 68 Specimens from the vicinity of Malton and Scarborough.
Mr. R. Pickering, Hon. Mem.	} Fossils from Malton.
Rev. W. V. Vernon, F.R.S. Pres.	} 21 Specimens from near Easingwold, and from Roseberry Topping.
Rev. T. Rankin, (<i>by the President</i>)	} 19 Fossils, &c. from wells on the Yorkshire Wolds.
Miss Gooch, (<i>by the President</i>)	} 18 Fossils from Mountain Limestone, near Gargrave, Craven.
Mr. H. Chapman.....	Petrified Wood, from clay, at Sandburn, near York.
Rev. J. Landon.....	Fossils from Herefordshire.
Mr. J. Wood (<i>by</i> <i>J. Atkinson, Esq.</i>)	} Horns of Stag, from peat, Scarcroft, near York.
Rev. C. V. Vernon.....	12 Fossils from the Mountain Limestone, Northumberland.
E. V. Vernon, Esq.....	Fossils from Monte Bolca.
Mr. W. Smith, Hon. Mem.	Tibia of Deer, tooth of Horse, and Pebble, from Wirksworth Cave.
Rev. L. V. Vernon.....	Specimens from the neighbourhood of Roseberry Topping.

NOVEMBER.

Countess of Denbigh, (<i>by the President</i>)	} 3 Crinoidal Fossils from the Oolite of Gloucestershire.
P. W. Watson, Esq. Hon. Mem.	} 7 Miscellaneous Specimens.
Mr. S. Woodward, (<i>by Mr. Copsie</i>)	} 4 Fossils from Norfolk.
Rev. T. H. Croft.....	11 Fossils from the Crag, Ipswich.
Rev. L. V. Vernon.....	10 Fossils from the Inferior Oolite, near Stokesley.

- Whitby Lit. and Phil. Soc: Paddle bones of Plesiosaurus, from the Lias, Whitby.
- G. Goldie, M.D. Sec... Ammonite, (*A. Mulgravius*, Young.) from Whitby.
- Rev. J. Layton,
(*by Mr. Copsie*) } 21 Specimens of Elephant's teeth and bones, from Happisburgh, Norfolk.
- Rev. C. Sykes..... 35 Bones and teeth, chiefly of ruminant animals, from Owthorne, Holderness.
- Rev. W. Richardson..... Lower jaw of Deer, from the alluvium, Ferrybridge, &c.
- Rev. G. Wright (*by Rev. W. H. Dixon*) } 4 Fossils.

DECEMBER.

- Rev. J. Graham..... } Bones of Ox in Stalagmite, from Kirkdale Cave:
Inoceramus from Louth, Lincolnshire.
- Mr. H. Chapman..... Vertebra, &c. from the Clay at Sandburn, near York.
- Mr. N. S. Ryeling..... 10 Fossils from the Malton Oolite, &c.
- Rev. W. V. Vernon,
F.R.S. Pres. } 21 Specimens illustrative of the Geology of Castle Howard Park.
- Mr. J. Phillips,
Hon. Mem. } 8 Specimens illustrative of particular facts in the Geology of Scotland.

JANUARY, 1827.

- J. Dunn, Esq..... 50 Fossils from the Oxford Clay of Scarborough Castle Hill.
- Rev. T. Rankin..... } Metatarsal bone of Ox, and Pebbles of primary and secondary Rocks, from Middleton on the Wolds.

MINERALOGY.

1826.

FEBRUARY.

- | | | |
|-------------------------------|---|---|
| Mr. H. F. Smith,
Hon. Mem. | } | Super-sulphuret of Lead, and 2 other Minerals, from Dufton. |
| J. Taylor, Esq. F.G.S.... | | Arseniated Phosphate of Lead, from Cornwall. |
| Rev. W. Richardson..... | | 2 Specimens of Sulphate of Barytes, from Huddleston. |

MARCH.

- | | | |
|--------------------------------|---|---|
| W. Browne, Esq.
Tallentire, | } | 2 Minerals from Cumberland. |
| Mr. Copsie..... | | 6 Minerals from Cumberland. |
| W. Salmond, Esq. F.G.S.. | | Carbonate of Lime, finely crystallized, from Greenhow-Hill. |

APRIL.

- | | | |
|--|---|--|
| Rev. W. V. Vernon,
F.R.S. Pres. | } | 11 Select Minerals from Iceland, including a specimen of double-refracting Spar, with a conchoidal fracture. |
| W. Marshall, Esq. F.G.S.
Vice-Pres. | | |
| G. Goldie, M.D. Sec. | | |

JULY.

- | | | |
|---|---|---|
| Rev. C. J. Latrobe, F.G.S.
Hon. Mem. | } | 18 Minerals from Labrador. |
| G. Goldie, M.D. Sec.... | | 10 Minerals from Iceland. |
| Rev. W. V. Vernon,
F.R.S. Pres. | } | Heulandite, crystallized on siliceous Sinter, from Iceland. |
| Rev. W. Richardson..... | | Artificial product containing Cobalt. |

Mr. M. Camidge.....	2 Agates from Scarborough.
Whitby Lit. and Phil. Soc.	7 English Minerals.
Rev. P. C. Guise.....	Fluor spar, coated by Quartz, from Weardale.
Rev. W. V. Vernon, F.R.S. Pres.	} Native Silver upon Carbonate of Lime, from Chili.

OCTOBER.

H. Witham, Esq. M.W.S. Hon. Mem.	} Withamite from Glen Coe, Topaz from county of Down, and Agate from Bohemia.
Mr. Sandoz, Hon. Mem...	Rock Salt from Northwich.
W. Marshall, Esq. F.G.S. Vice-Pres:	} Hydrate of Magnesia, Chromate of Iron, and 13 other Minerals, from Zetland.
E. V. Vernon, Esq.....	29 Foreign Minerals.

DECEMBER.

J. Pemberton, Esq.....	Copper Pyrites, from Cockermouth.
Mr. J. Phillips.....	Fluor Spar, with Carbonate of Strontian and Barytes, from Pately.

JANUARY, 1827.

Rev. L. V. Vernon.....	Carbonate of Lime, in a geode, from Basalt near Stokesley.
J. Dunn, Esq.....	Titaniferous Oxydulated Iron sand, from Scarborough.
Mr. J. Ellison.....	9 Minerals.

ZOOLOGY AND COMPARATIVE ANATOMY.

1826.

MARCH.

A. Thorpe, Esq..... Madrepore, (*M. Fungites*.)

APRIL.

Mrs. Drake..... Specimen of *Lepas anatifera*.

Rev. W. V. Vernon, }
F. R. S. Pres. } Sturgeon, (*Acipenser Sturio*,) caught
in the Ouse at Cawood.

JULY.

G. Goldie, M.D. Sec... }
Alligator, (*Crocodilus Lucius*,) from
Guiana; Skeleton and stuffed Specimen.

W. Marshall, Esq. F.G.S. }
Vice-Pres. } Otter, (*Lutra europæa*,) Skeleton
and stuffed Specimen.
Salamandra aquatica, and S. palustris.

Rev. C. J. Latrobe, F.G.S. }
Hon. Mem. } Horns of Rein-deer.

Rev. M. G. Wynyard.... Remarkable Cranium of Hare.

Mr. J. Phillips..... Viper, (*Coluber Berus*.)

Whitby Lit. and Phil. Soc. }
Two fishes, viz. Gemmeous Dragonet,
(*Callionymus Lyra*) and Pipe-Fish,
(*Syngnathus Acus*.)
Shells from Egypt.

OCTOBER.

Eust. Strickland, Esq. Sec. }
Skeleton of a species of Dolphin, (*D.*
Tursio, Cuv.) caught in the Ouse at
Cawood.

Mr. W. Gray, jun..... Tooth of a species of *Physeter*.

- H. Witham, Esq. M.W.S. } Shell of *Cardium edule*, from Cockles-
 Hon. Mem. } bury Moss.
- Mr. J. Williamson Specimens of *Buccinum terrestre*, from
 Scarborough.
- Mrs. Mouat, of Garth (*by* } *Millepora aspera*, 2 specimens from
W. Marshall, Esq.) } Zetland.

DECEMBER.

- John Tweedy, Esq. Skeleton of an Esquimaux Dog.
- W. Salmond, Esq. F.G.S. } Bones from a fissure at Bramley Fall,
 near Leeds.
- Mr. R. Knowlson } Horns of Deer, and Cores of the Horns
 of Ox, from the foundations of the
 new works at York Castle.
- Mr. R. Knowlson Group of *Lepas balanoides*.

JANUARY, 1827.

- Mr. J. Ellison Several Shells.
- Mr. J. Phillips, }
 Hon. Mem. } Barbot, (*Gadus Lota*), from the Ouse.

ORNITHOLOGY.

1826.

JULY.

- E. Strickland, Esq. Sec. . . . } 3 British Birds, viz.
 } Crested Grebe, f. (*Podiceps cristatus*.)
 } Red necked Grebe, (*P. rubricollis*.)
 } Grey Wagtail, (*Motacilla Boarula*.)
- W. Marshall, Esq. F.G.S. }
 Vice-Pres. } Cuckoo, (*Cuculus canorus*.)
- Whitby Lit. and Phil. Soc. Stormy Petrel, (*Procellaria pelagica*.)

OCTOBER.

W. Marshall, Esq. F.G.S.
E. Strickland, Esq. &
G. Goldie, M.D.

28 British Birds, viz.
Common Buzzard, (*Falco Buteo.*)
Sparrow Hawk, male & fem. (*F. Nisus.*)
Kestrel, male, (*F. Tinnunculus.*)
Cuckoo, (*Cuculus canorus.*)
Wryneck, (*Yunx Torquilla.*)
Red backed Shrike, (*Lanius Collurio.*)
Pheasant, m. & f. (*Phasianus Colchicus.*)
Red Grouse, (*Tetrao Scoticus.*)
Snipe, (*Scolopax Gallinago.*)
Godwit, (*S. agocephala.*)
Dunlin, (*Tringa alpina.*)
Golden Plover, (*Charadrius pluvialis.*)
Sanderling, (*Ch. Calidris.*)
Corn-Crake, (*Gallinula Crex.*)
Spotted Gallinule, (*G. Porzana.*)
Black-cap Gull, male and fem. (*Larus
ridibundus.*)
Smew, (*Mergus Albellus.*)
Wild Swan, (*Anus Cygnus.*)
Mallard, (*A. Boschas.*)
Scaup Duck, (*A. Marila.*)
Pochard, (*A. ferina.*)
Pintail Duck, male & fem. (*A. acuta.*)
Golden Eye, fem. (*A. clangula.*)
Tufted Duck, (*A. Fuligula.*)
Cormorant, (*Pelicanus Carbo.*)

NOVEMBER.

Lieut. C. Strickland,
Royal Artillery,

} Four Birds from Canada.

ENTOMOLOGY.

1826.

FEBRUARY.

Mr. Sheriff Hornby..... 2 Specimens of *Locusta migratoria*.

APRIL.

Mrs. Drake..... Specimen of *Lucanus Cervus*.

JULY.

W. Marshall, Esq. F. G. S.	}	<i>Libellula annulata</i> .
Vice-Pres.		<i>Chrysalis of Sphinx Atropos</i> .

JANUARY, 1827.

Mr. W. C. Hewitson..... *Scarabæus Hercules*.

BOTANY.

1826.

MARCH.

W. Marshall, Esq. F.G.S.	}	Herbarium of the Cereal Plants of Switzerland, with specimens of their diseases and artificial products.
Vice-Pres.		

JULY.

Whitby Lit. and Phil. Soc. *Boletus* from New Brunswick.

ANTIQUITIES.

1826.

I. COINS AND MEDALS.

MARCH.

Miss Nelson (<i>by the Rev. B. Rayment</i>)	}	A silver Medal, struck on the Restoration of Charles II.
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APRIL.

Mrs. Drake..... 8 English Coins of various reigns, silver.

JULY.

Rev. W. V. Vernon, F.R.S. Pres.	}	12 English Coins and Medals, and two Roman brass Coins.
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Rev. J. Graham..... Severus, *arg.*

J: Bland, Esq. Hon. Mem..	}	Hadrianus, <i>ær.</i> Vespasianus, <i>ær.</i> Penny of Edward I. silver. 1 Arab. Coin, gold, &c.
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OCTOBER.

Archbishop of York..... Medallion, in brass, of Archbishop Cranmer, brought from Rome,

II. MISCELLANEOUS ANTIQUITIES.

FEBRUARY.

Mr. R. Dalton, Hon. Mem.. Original Seal of St. Mary's Abbey.

MARCH.

Rev. B. Rayment..... An enamelled Brass Plate, from the cover of an ancient Missal.

APRIL.

- Mrs. Drake..... } Antique Hunting Sword.
 } 2 Antique iron Cuirasses.
 } Roman Tile, fragments of a Roman
 } Vase, &c.
- Mr. S. Woodward..... Impression of the Seal of William de la
 Pole, Earl of Suffolk.

JULY.

- Rev. Jos. Hunter,
 F.S.A. Hon. Mem. } Seal of the Collegiate Chapter of
 } Hemingbrough, and another ecclesi-
 } astical Seal.
 } 24 Casts of Monastic and other ancient
 } seals, chiefly foreign.

OCTOBER.

- W. Salmond, Esq. F.G.S. Roman Vase, &c. from the excavations
 at York Castle.

NOVEMBER.

- H. S. Belcombe, M.D... A Javanese Dagger.

DONATIONS TO THE LIBRARY.

1826.

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| W. Marshall, Esq. F.G.S.
Vice-Pres. | { | Seringe, <i>Mélanges Botaniques</i> , 8vo.
La Marck et De Candolle, <i>Species Plantarum in Florâ Gallicâ descriptarum</i> , 8vo. |
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APRIL.

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|---------------------------------------|---|---|
| Mr. J. Murray, F.S.A.
(the Author) | { | Researches in Natural History, 12mo.
Chemical Experiments, 12mo. and three Tracts. |
| Mrs. Drake. | { | Martini Lister <i>Tractatus tres de Hist. Anim. Angliæ</i> , 4to. <i>Lond.</i> 1678.
Genealogical Table of the History of England. |
| Rev. W. Taylor,
Hon. Mem. | { | Martin's Optics, 8vo. |
| Mr. J. Phillips,
Hon. Mem. | { | Ray and Willoughby's <i>Philosophical Letters</i> , 8vo. 1718. |
| Sheffield Lit. and Phil. Soc. | { | Reports of the Society, for 1824-5. |

JULY.

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|---|---|--|
| Rev. W. W. Bolton. | { | Nicholson's Chemistry, 2 vols. 4to.
Fourcroy's Chemistry, by Thomson, 3 vols. 8vo.
Chaptal's Chemistry, 3 vols. 8vo. |
| Rev. W. Eastmead, Hon.
Mem. (the Author) | { | <i>Historia Rievallensis</i> , 8vo. |
| Whitby Lit. and Phil. Soc. | { | Reports of the Society, for 1825-6. |

- G. Goldie, M.D. Sec. . . . } Berthollet on Dyeing, 2 vols. 8vo.
 } Maclaurin's Algebra, 8vo.
 } Adamson's Electricity, 8vo.
 } Bergmann on Elective Attractions, 8vo.
 } Scheele on Air and Fire, 8vo.
 } Priestley on Air, 3 vols. 8vo.
 } Lavoisier's Chemistry, 8vo.
 } Bostock on Respiration, 8vo.
 } Bostock on Galvanism, 8vo.
 } Brande's Outlines of Geology, 8vo.
 } Uslar on Plants, 8vo.
 } Forster on Minerals, 8vo.
 } Treatise on Gases, 8vo. 1779.
 } Brockett on Antique Coins, 12mo.
 } Boothroyd's History of Pontefract, 8vo.
- W. H. Fitton, M.D. } Account of Geological Specimens from
 F.R.S. Hon. Mem. } Australasia, 8vo.
 (the Author) } Instructions for collecting Geological
 Specimens, 8vo.
- OCTOBER.
- Mr. W. Smith, Hon. Mem. } Map of the Country round Scarborough,
 } coloured geologically from original
 } observation.
- P. W. Watson, Esq. } Scheüzer, Herbarium Diluvianum, folio,
 F.L.S. Hon. Mem. } 1723.
- Royal Asiatic Society of } Transactions of the Royal Asiatic So-
 Great Britain. } ciety, vol. I. part 2. 4to.
 } Regulations and List of the Members
 } of R.A.S. 4to.
- Asiatic Society of Calcutta. } Asiatic Researches, vol. XV. 4to.
- Professor Griscom, } Silliman's Journal, vol. XI. No. 1.
 Hon. Mem. }
- Rev. W. D. Conybeare, } Illustrations of Anglo-Saxon Poetry, by
 F.R.S. Hon. Mem. } the late Rev. J. J. Conybeare, 8vo.

Leeds Lit. and Phil. Soc. Report of the Society, for 1825-6.

NOVEMBER.

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|--|---|---|
| Rev. W. V. Vernon,
F.R.S. Pres. | } | Annales de Chimie to 1809, 72 vols.
8vo. |
| W. Marshall, Esq. F.G.S.
Vice-Pres. | | } Journal de Physique, 1789 to 1809,
36 vols. 4to. |
| G. Goldie, M.D. Sec.... | | Thomson's Annals of Philosophy,
16 vols. 8vo. |
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| B. Wake, M.D..... | | Essay on the North West Passage, 8vo. |

DECEMBER.

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| Hull Lit. and Phil. Society. | | Reports of the Society to 1826. |
| Rev. W. Taylor,
Hon. Mem. | } | Cooke's Marrow of Chirurgery, 4to.
Rohault's Nat. Philosophy, 2 vols. 8vo.
De Occultis Literarum Notis, 8vo. |
| Rev. C. Wellbeloved..... | | Rasche, Lexicon Rei Nummariaë,
14 vols. 8vo. Lips. 1785-1805. |

JANUARY, 1827.

- | | | |
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| J. Wasse, M.D..... | | Valentini Amphitheatrum Zootomicum,
2 vols. folio. Francof. 1720. |
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OCTOBER, 1826.

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| Rev. W. Taylor,
Hon. Mem. | } | A simple Contrivance for teaching
Arithmetic to the blind. |
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OTHER ADDITIONS TO THE LIBRARY.

WORKS IN CONTINUATION.

- Cuvier, (F.) des Dents des Mammifères, 1 vol. 8vo. (*completed.*)
Cuvier (G.) Discours sur les Révolutions du Globe, 1 volume, 4to.
(*completing the Ossemens Fossiles.*)
Cuvier (F.) et G. St. Hilaire, Histoire Naturelle des Mammifères,
folio. (*continued.*)
Cuvier's Animal Kingdom, by Griffith, 8vo. (*continued.*)
Kirby and Spence's Entomology, 3rd and 4th vols. 8vo. (*completing
the work.*)
Philosophical Transactions, for 1825 and 1826.
Sowerby's Mineral Conchology, 8vo. (*continued.*)
Transactions of the Geological Society, *New Series.* (*continued.*)

PERIODICAL JOURNALS.

- Journal of the Royal Institution,
Jameson's Edinburgh Philosophical Journal,
Brewster's Edinburgh Journal of Science,
Silliman's American Journal, } *Quarterly.*
Annals of Philosophy, *Monthly.*

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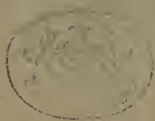
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Workeſhire Philoſophical Society,

ANNUAL REPORT

FOR

MDCCCXXVII.



ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society,

FOR

MDCCCXXVII.

YORK :

PRINTED BY W. ALEXANDER AND SON, CASTLEGATE.

1828.



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REPORT,

PRESENTED BY THE COUNCIL TO THE ANNUAL MEETING,

FEBRUARY THE FIFTH,

M.DCCC.XXVIII.

THE COUNCIL have had occasion, on former anniversaries, to congratulate the Society on the retrospect of the preceding year; but never, since the commencement of the Institution, have they been enabled to render so prosperous an account of its progress, as in the Report which they have now the honour of submitting to the Meeting.

To complete the design which the Society originally contemplated, it has always been felt by its members to be essentially requisite, that an edifice should be erected of such a character and such dimensions, as might befit a COUNTY MUSEUM: and the Council have first to call the attention of the Meeting, to the proceedings by which they have advanced towards the accomplishment of this great object.

The possibility of accomplishing it in a satisfactory manner, appeared to them, from the first, to rest upon the success of the

plan for occupying the magnificent and spacious Site, which offered itself upon the platform of the Manor Shore. But the only prospect of obtaining so valuable an acquisition, lay in the hope of finding a disinterested desire, on the part both of the Crown and of its Lessee, to promote an object of public utility. The Society's request having been considered in that light by Lord Grantham, the Council experienced no difficulty in obtaining from his Lordship, a resignation of his interest in this ancient tenure of his family ; and the Treasury also immediately took into its most favourable consideration the petition of the Society, for a grant of the Ruins of St. Mary's Abbey, and three acres of land on the Manor Shore.

The legal impediments which, in 1826, prevented the Crown from complying with the prayer of that petition, were stated in the last Report ; but the attention of the Chancellor of the Exchequer¹ having been called to the subject, he was of opinion that they were impediments which ought not to subsist ; and directions were given for drawing up a Bill, to extend to the Country at large the provisions of the Act, which empowered the Crown to make grants of land to Institutions within the Metropolis. The political circumstances which interrupted the proceedings of Parliament, during the spring of 1827, barely allowed time, in the ensuing session, for transacting the public business : nevertheless this Bill, rapidly forwarded by the exertions of the friends to the Society, passed into a law, which has not only enabled the Crown to comply with the

¹ Viscount Goderich.

present application, but has conferred a general benefit, by allowing similar favours to be dispensed to Scientific and Charitable Institutions, in every part of the kingdom.

As soon as the Bill had passed, a warrant was issued by the Treasury, for making out the Grant; and the Surveyor for the Crown received directions to assign to the Society, the ground for which it had applied. The draft of the Grant has been since transmitted from the Land Revenue Office; the best opinions have been taken on the Society's part, upon the particulars of the conveyance; it has again passed through the hands of the legal advisers of the Crown, and now only wants the Sign Manual for its final completion.¹

On being informed that the warrant for the Grant was signed, the Subcommittee to whose care the concerns of the Building had been entrusted, anxious to obtain the opinion of the County on the measures which they proposed to adopt, summoned a meeting of the General Committee, and submitted to them the plans and estimates which they had procured. The Report which was made on that occasion has been printed;² and it may be sufficient to refer to it, for an explanation of the principles on which the new Museum has been designed. These principles were acceded to by the General Committee; and the design was adopted. Unanimous approbation was bestowed upon the simple and noble elevation proposed for the Front, and the spacious and commodious arrangements planned for the Interior of the Building.

¹ Since the Annual Meeting, the Sign Manual has been obtained.

² See Appendix, page 31.

In the front, of which Mr. Wilkins has furnished not only the general elevation, but the working drawings, no alteration has since been made, with the exception of a few corrections by himself; but the plan has been considerably improved, especially by an enlargement of the Zoological Museum, and the addition of a basement floor. It may afford some idea of the extent of accommodation which will be afforded, to state that besides a Library, a Lecture Room, a Laboratory of adequate dimensions, and eight apartments of inferior size, the building will contain rooms for the use of the Museum the aggregate length of which will be not less than three hundred feet, lighted for the most part by sky-lights, so that more than five hundred feet of cases may be disposed longitudinally against the walls alone.

The drawings and specifications having been prepared; contracts for the work were immediately entered into by public competition, and the contractors were bound to cover in the entire building by the beginning of October, 1828, to finish the Lecture-Room and principal part of the Museum by the 1st of January, 1829, and perfectly to complete the whole by the 1st of May, in the same year. On the 24th of October, the Council had the high satisfaction of seeing the First Stone of the YORKSHIRE MUSEUM laid by the earliest Patron of the Society:¹ and at the present moment, the basement being finished, the ground floor is about to be commenced.

It appears from the minutes of the Subcommittee, that the expenses for which they have contracted, and those for which

¹ See Appendix, page 35, for an account of the proceedings.

they have paid, amount in the whole to Six thousand five hundred pounds : and this sum includes the cost of the principal fence wall, and the entrance lodge, as well as the completion of the Museum. It is impossible, however, to foresee exactly the whole expenditure which grows out of an undertaking of this kind ; and, in the present instance, it certainly ought not to be calculated, (if the provision for cases and other furniture, be added,) as less than Eight thousand pounds. The actual amount of the Subscriptions, 6,500*l.* is not yet sufficient to meet this demand ; but the Council are of opinion that the Subcommittee have not presumed too far upon the increase still to be expected in the number of Subscribers. They trust that there are contributions yet in reserve ; and they believe that there are many persons in the County, and especially among the Members of the Society, who will come forward to supply the deficiency, when they collect from this Report how far the Museum is advanced, and are informed that the time is come, when their assistance is wanted to consummate a work, of which the execution is actually commenced.

It will be gratifying to the Meeting to learn, that the Lord Mayor and Corporation of York, have testified to the Society their sense of the credit which will redound to the City, from a work of so much general interest, and so much local ornament and advantage ; and that, in addition to a liberal subscription, they have granted a carriage entrance into the Manor Shore, by which it is rendered much more accessible ; and allowed the Lodge to be built on their premises, without requiring any rent ; they have admitted the Society also to

occupy, on fixed and moderate terms, the ground contiguous to the ramparts; and have thus given it the ancient City walls for one of the boundaries of its Garden.

Enjoying so large a share of public favour, and promising so many new advantages, the Institution has increased the number of its Members, in a proportion which almost doubles the admissions of the preceding twelvemonth; and through the funds supplied by these means, the Council have been enabled to relieve the accounts of more than half the debt which had been formerly contracted, so that the balance against the Society is reduced to thirty-four pounds. But the fees of admission paid by new Members, are an accidental and precarious source of income; and the Council request the attention of the Meeting to the fact, that without this assistance the expenditure of the year would have exceeded the annual subscriptions by seventeen pounds, even though a severe economy has been observed, and though but half the salary of that highly valued and indispensable Officer of the Institution, the Keeper of the Museum, has been paid from the public fund.¹ They would also remind the Meeting, that the increased expenses of the new establishment, must be expected to be more than a counterbalance for the reduction of rent; and lastly, that the maintenance of a Scientific Garden, which is one of the conditions of the royal grant, must be expected, on however

¹ The remainder of the salary has been hitherto paid by private subscription. The same means have been resorted to, for the purchase of zoological specimens and books of Natural History; but the important object of forming a good Library for scientific reference, can only be accomplished by an increase of the general funds: at present, the works of this description which the Society possesses, are insufficient for the proper use and illustration of its Collections.

limited a scale it may be conducted, to require a considerable expenditure. On the other hand, there is no probability of such an accession of Members as will supply an income, on the present terms of the Subscription, adequate to these demands; and the necessary conclusion is, that if the Institution is to be supported, the Annual Subscriptions must be raised. Upon whatever principle that support has been hitherto given, upon the same it ought now to be increased. The new garden and the extended buildings offer additional advantages of every kind, the value of which it cannot be doubted that the Members of the Society will duly appreciate, and to the maintenance of which, it may be presumed, they will readily contribute. As, however, to propositions for making changes of this description, the utmost publicity should be given, the Council have not thought it proper to submit any measure to the Society, till after they have made known their views; but it is probable, that in the course of the summer, a Special Meeting of all the Subscribing Members will be summoned, to take the subject into consideration.

Among the advantages which the Society will derive from its future accommodations, a convenient LECTURE-ROOM is not one of the least. It appears from the Treasurer's account, that the receipts and expenses were nearly balanced upon the two courses of Lectures delivered in 1827, on the Natural History of the Invertebral Animals,¹ and on the Magnetical Phenomena of the Galvanic circuit and of Percussion :² and yet the services of the Lecturer who undertook the latter of these subjects were gratuitous; and both the courses were in

¹ By the Keeper of the Museum.

² By the Rev. W. Scoresby, F.R.S.

a high degree interesting and instructive. Such Lectures would have more numerous audiences, if they could be more conveniently heard. In the mean time, the Council have not felt justified in making any engagement for the current year, except so far as to request the Keeper of the Museum to prepare a course of Lectures on the Aquatic Animals of this neighbourhood, to be delivered either in the ensuing or the succeeding summer.

It is one of the principal objects of the Society to encourage a taste for Natural History ; and it has always proposed to effect this, both by means of Lectures on the various divisions of Nature, and by COLLECTIONS in its Museum, without which lectures of this description can scarcely be given. The value of such collections is not perhaps in general sufficiently understood ; and the Naturalist by whom they are formed, is sometimes suspected of claiming the dignity of a science, for pursuits little higher than the amusements of children. If the object of a collector be no more than to accumulate and to display, he is indeed very idly employed ; but if his object be to acquire or to diffuse a more perfect knowledge of the works of creation, there cannot be a more rational or a more noble pursuit. To investigate the wisdom of Nature, is an employment worthy of the most exalted understanding, whether that wisdom be displayed in the configuration of a planet, or in the structure of a butterfly's wing. There are some, however, who imagine that nothing is to be learned from a Museum except a catalogue of names ; but this, even were the statement true, is surely an unreasonable complaint. If the volume of Nature is worthy of being read, its vocabulary must

deserve to be studied. No one can learn the names of these objects, without acquiring, at the same time, some knowledge of their properties; and no one can discuss the properties without possessing some knowledge of the names.

The Society's Collections have been increased to a very gratifying extent, by the contributions of the last year, especially in those parts of Natural History in which the Museum was most defective. It appears from the reports of the Curators, that the zoological specimens which have been added, amount to no less than One thousand, eight hundred and fifty, and the botanical to upwards of Four thousand.

Among the additions in ZOOLOGY, should be noticed the collection in several departments of the science from South America and the West Indies,¹ the specimens of Ornithorhynchus from New South Wales,² the Arctic Birds, including the Iceland Gull, given to the Society by the Naturalist of Zetland³ by whom that bird was first described, the Crabs from Brazil,⁴ the Corallines from the Yorkshire coast,⁵ the donation of two hundred valuable foreign Shells,⁶ and above all, the munificent entomological contribution of one thousand five hundred and forty-four British Insects, chiefly of the order Coleoptera, presented by a distinguished Naturalist of this County.⁷

¹ Presented by Captain O. V. Vernon, R.N. ² By W. Marshall, Esq. F.G.S.

³ Lawrence Edmondstone, Esq. M.W.S.

⁴ By the Literary and Philosophical Society of Leeds. ⁵ By Mrs. G. Bulmer.

⁶ By Mrs. M. Dixon.

⁷ The Rev. James Dalton, F.L.S.

The same liberal donor has augmented the BOTANICAL collection with a choice and extensive Herbarium, rich in rare plants, and containing 2300 specimens;—and a second Herbarium of similar merit, well illustrated by characteristic varieties, and containing 1780 specimens, having been given to the Society by one of its Members,¹ these important contributions, when united and arranged, will form, with those which had been before received, an instructive series of no common excellence and extent.

In the GEOLOGICAL department of Science, many of the specimens which have been presented possess considerable interest. Among those received from foreign countries, the most deserving of notice are the Fossil Shells from Iceland, differing little from the recent *Venus Islandica*, except in so far as they are entirely converted into spar; the Shells from Barbuda, identical with those now inhabiting the West Indian seas, but imbedded in a calcareous rock which occupies the centre of the island;² and the specimens from Bohemia,³ of Plastic Clay indurated into Porcelain Jasper, by the combustion, as it should seem, of the subjacent bed. The extensive collection from the rocks of Scotland, with which the Society had before been favoured, has been again augmented;⁴ and the Geology of the Orkneys has been illustrated by a series of specimens,⁵ explanatory of a Memoir in which the strata were described. The Mountain Lime-

¹ W. Middleton, Esq.

² Presented by Capt. O. V. Vernon.

³ Presented by the Directors of the Museum at Prague.

⁴ By H. Witham, Esq. M. W. S.

⁵ Presented by the Rev. C. Clouston.

stone of Northumberland has furnished the Museum with some new and very remarkable exhibitions of Fossil wood,¹ in which the fasciculated texture of the monocotyledonous plants is beautifully preserved; but which show also some indications of a radiated structure, such as belongs to the dicotyledonous tribes. To the Yorkshire Collection, has been added a sandstone cast of a gigantic *Lepidodendron* from the coal-field near Wakefield;² and the impressions of several new kinds of cycadiform plants and ferns, from the strata near Scarborough, (in some of which the fructification may be discerned,) have been presented by an Honorary Member³ of the Society, who has often contributed to its Museum. Of these plants the Council have procured duplicates, and have transmitted a well defined series to M. Adolphe Brongniart, conceiving that they could not render a more acceptable service to Geological Botany, than by assisting the researches of that accurate and skilful observer.

To the MINERALOGICAL Cabinet has been added an undescribed variety of the mammillary Carbonate of Zinc,⁴ from Keswick, the colour of which is a bright sulphur yellow, and which has been found, upon analysis, to contain Manganese; and some specimens of stalactitic Chalcedony in whinstone have been presented,⁵ from the basaltic dyke which crosses the northern part of this county. A valuable contribution has been made to the ores of Tin⁶; but it is to be regretted, that a large proportion of the Cornish minerals

¹ Presented by the Rev. C. V. Vernon. ² Presented by the Rev. S. Sharp.

³ Mr. Bean. ⁴ Presented by Mr. Copsie, analysed by the President.

⁵ By the Rev. L. V. Vernon. ⁶ By the Rev. E. Wood.

is still wanting, as well as of those from South America and Siberia. The Collection would be greatly improved by donations of the metallic ores ; not being at present rich in any of these, and poor in the ores of Manganese, Titanium, Cobalt, and Silver.

Many contributions are lost to Museums, because it is not known what are the *DESIDERATA* to be supplied. It may be useful, therefore, to point out, in other parts also of the Collection, what the Society wants, as well as what it has received.

The Geological Catalogues contain the history of upwards of eight thousand specimens, by which most of the British Strata are illustrated ; but additional fossils are much to be desired, from the tertiary strata of Norfolk and Suffolk, of Hampshire and the Isle of Wight, and from the Oolite, Lias, and Mountain Limestone of Bath and Bristol. In the Yorkshire series, the fossils most needed are from the Lias of Whitby, and the Mountain Limestone of Craven. In the organized fossils of foreign countries, and in those of Scotland and Ireland, the collection is almost entirely defective.

The most important desiderata in Zoology are, among the Zoophytic Animals, the Flexible Corallines of the Mediterranean and Tropical waters ; and very few specimens of the Radiated, Vermiform, or Crustaceous classes yet belong to the Museum. Of Foreign Shells its drawers contain but 350 species, and of British not more than 160. The attention of Naturalists has been little turned to the two classes which

rank next to these ; and the Society possesses only 23 specimens of Fishes, and 28 of Reptiles. The number of Birds in its cases amounts to 146, of which 103 are natives of this country ; and out of 300 British species, about 60 are thus illustrated.

In reference to some of these objects of Zoological interest, the Council cannot refrain from remarking, that there is a circumstance observable in the Catalogue of Donations, which they should hope to find hereafter of more frequent occurrence. The amusements of the Sportsman and the Angler have, in several instances, contributed to enrich the Museum with useful specimens ; and persons not professing much knowledge of Natural History, have thus rendered it an essential service, at no expense to themselves.

In giving a general list of desiderata, it is by no means intended to intimate, that Contributions of another class will not be acceptable ; and still less to complain, in any degree, of the support which the Institution has received. It is not surprising, that in a Museum which has been only a few years established, there should be great deficiencies ; the wonder is, that it should already, in some degree, embrace every part of the range of natural science ; that it should already number in its catalogues TWENTY THOUSAND specimens collected from the land and the water. The accumulation, in so short a time, of such a multitude of the materials of instruction, is highly honourable both to the Society and to the County : it fully answers the sanguine hopes with

which the Yorkshire Museum was founded, and justifies the very liberal patronage which it has received.

Whilst the collections of Natural History have been thus enriched, there have been presented to the LIBRARY Fifty-seven Volumes, with the numbers hitherto published of M. Audubon's splendid work on the birds of America;¹ and to the ANTIQUARIAN Cabinet, one hundred and fifty-five Coins, Medals, and dies. The most interesting of the coins is that of Archbishop Vigmund,² on account of its having been found under the foundations of the rampart immediately adjoining Micklegate Bar; thus furnishing some additional evidence as to the age in which that rampart was built. Among the Miscellaneous Antiquities, the large and figured urn,³ found with human bones in a tumulus near Bishop-Burton, in the East-riding of Yorkshire, is peculiarly curious; as it serves both to elucidate the mode of sepulture practised among our British ancestors, and at the same time, to show the progress which they had made, under their masters the Romans, in some of the arts of life.

But on nothing, connected with Antiquarian Research, has the Society so much reason to congratulate itself, as on having been the means of uncovering to view, the foundations of the ABBEY OF ST. MARY; of bringing again to light, many exquisite specimens of sculpture which once adorned that magnificent fabric, and of enabling the antiquary to correct

¹ Subscribed for by several members of the Society.

² Presented by Mr. Bleckly.

³ Presented by Dr. Hull, of Beverley.

or extend his observations on the arrangements of monastic Institutions.

The remains of the Abbey Church have long been admired, as exhibiting one of the most beautiful examples of Gothic Architecture in its purest style ; but it was little suspected that, under the elevated platform of the Manor Shore, had been buried, for two centuries, the entire ground plan of the Monastery belonging to that Church ; that there existed in that concealment, unmoved and undisturbed from their place, walls and columns, and the bases of buttresses and gateways ; here, the steps of a staircase and the glazed tiles of a pavement ; and there, a spacious fire-place still standing, with its sculptured corbels ; in one place, the richly carved pillars and circular fragments of a Norman arch, and in another, a knot or a keystone of still more elaborate workmanship, from some vaulted roof of a later date.

These discoveries having been first made in excavating the foundations of the new Museum, they were further prosecuted by a private subscription ; and care was taken on the part of the Society, that, as they proceeded, a plan should be drawn, and accurate admeasurements should be made, of every part of the remains. The finished character of the architecture, exhibiting some very elegant specimens of the style in use during the early part of the fourteenth century, together with some ornamented examples of that which belonged to the more ancient Monastery, founded by William Rufus ; the interest, also, attached in other respects, to the long concealed relics and unrecorded plan of so great and powerful an

establishment, induced the Council to consider it as their duty, to provide materials for a DESCRIPTIVE PUBLICATION.

In the mean time, the Society of Antiquaries, unapprised of this design, requested permission to make drawings with the same view ; and the Council, considering the great advantages enjoyed by a Metropolitan Institution, for executing such a work, and only desirous that it should be published in the most perfect manner, determined not only to give the permission requested, but to add to it the assistance which was necessary to render the publication complete. They have therefore communicated the various drawings which have been made at the Society's expense ; and propose hereafter to resume the excavation, and investigate what still remains to be ascertained.

It was thought reasonable, however, that participating thus largely in the expense, the Society should have a share in the profits to be derived from the undertaking : and it has therefore been agreed, that two hundred copies of the work shall be placed at the disposal of the Council. These copies will be offered to the members of the Society who may desire to subscribe for them, and the fund arising from this source, will be employed in defraying the expenses of excavating the remaining foundations, and repairing the ruins of the Abbey.

The Society is now entrusted, by the gracious confidence of the Crown, with the conservation of these picturesque, but shattered Remains ; and the Council have felt it incumbent

upon them to pay immediate attention to the charge. They have already replaced the buttresses, of which the loss endangered the remaining aisle ; have secured the arch of the western window, and removed the unsightly materials of later date, with which the beautiful tracery was in some parts encumbered and defaced. They have not thought it in good taste to renovate, but have found it indispensably necessary to repair.

The same feeling which forbids them to be negligent guardians of this inimitable specimen of Ancient Art, influences the whole view in which they regard the Society's present position as a Scientific Establishment ; a feeling no longer merely of zeal for the promotion of art and science, but a more serious sense of deep responsibility. The Society has received favours of no inconsiderable magnitude ; it has experienced, in no ordinary degree, the munificence of a liberal Government, and the generosity of a public-spirited County. To acquit itself of the obligations which it is under to that liberality, and to keep faith with that public spirit, is a duty with which its Council is strongly impressed. When they look at the Site on which the YORKSHIRE MUSEUM is beginning to rise ; when they count the Subscriptions, collected for its erection, and consider that this sum has been raised upon no transferable, and, in great part, upon no proximate and tangible interest—they cannot indeed repress their exultation, and are astonished at their own success. But at the same time, it is impossible for them to contemplate, without some degree of solicitude, the Debt of Honour which the Society has contracted, and the expectations which it is called upon to fulfil.

The Meeting, however, will judge from the Report which has now been made, and from the Documents which the Council has the honour to present,¹ whether there is not just ground to hope, that the Public Patronage has been well bestowed. The treasures of Natural History which it appears have been already collected, the ample list of donations recorded at every meeting, the specimens this day produced of laborious and skilful industry in registering the contents of the Museum,² the Scientific Communications which have been read,³ and the Papers which have been published⁴ during the year, justify a reasonable confidence, that when the Society shall have built a splendid Museum, it will know the manner in which such an Institution should be employed, and feel the spirit with which it ought to be maintained.

¹ See Appendix.

² A descriptive Catalogue of the English Coins in the Society's possession, recently completed by the Curator of Antiquities; and a specimen of a systematic Catalogue of the entire Collection of Natural History, by the Keeper of the Museum.

³ See Appendix, page 45.

⁴ See *Philosophical Magazine and Annals of Philosophy, for 1827*:—Mr. E. S. George's Analysis of a Sulphuretted Water, from the northern part of the Yorkshire Coal-field: vol. i. p. 245.—Rev. W. V. Vernon on the Orange Phosphate of Lead: *ibid.* p. 321.—Mr. William Smith on retaining water in rocks for Summer use: *ibid.* p. 415.—Mr. J. Phillips on the Direction of the Diluvial Currents in Yorkshire: vol. ii. p. 138.

THE TREASURER'S ACCOUNT FOR 1827.

<i>Dr.</i>	<i>£. s. d.</i>	<i>Cr.</i>	<i>£. s. d.</i>
Received Admission money from 16 new members	80 0 0	Balance due to the Treasurer at the close of 1826	101 4 4
Received Annual Subscriptions for 1827, from 150 members.....	150 0 0	Paid for purchase and preparation of Specimens..	18 16 10
Received Arrears of ditto for previous years.....	12 0 0	Expenses of Lectures :	
Received for tickets to Mr. Phillips's Lectures....	36 7 6	Mr. Phillips' Salary.....	£90 0 0
Received for ditto to Mr. Scoresby's Lectures....	18 8 6	Contingent expenses.....	16 5 0
Donation from the Duke of St. Albans.....	5 10 0	Expenses of Mr. Scoresby's Lectures.....	9 14 4
Balance due to the Treasurer at the close of 1827	84 16 11	Books and binding.....	25 16 0
		Printing and advertising.....	30 6 2
		Stationery.....	4 3 10
		Cases and Furniture.....	41 3 1
		Rent, Salaries, and Wages :	
		Rent.....	£36 15 0
		Towards salary of Keeper of the Museum	30 0 0
		Servant's wages.....	19 2 0
		Incidents.....	23 16 4
	<u>£387 2 11</u>		
			<u>£387 2 11</u>
Balance due to the Treasurer.....	£84 16 11		
Deduct arrears due from members.....	51 0 0		
Balance against the Society.....	<u>£33 16 11</u>		



APPENDIX TO THE REPORT :

CONTAINING

PROCEEDINGS RELATIVE TO THE NEW MUSEUM,

SUBSCRIPTIONS TO THE BUILDING FUND,

SCIENTIFIC COMMUNICATIONS,

DONATIONS TO THE MUSEUM AND LIBRARY,

AND

LIST OF MEMBERS.

THE UNIVERSITY OF CHICAGO
LIBRARY

1000 S. EAST ASIAN BLDG.
CHICAGO, ILL. 60607

DATE

BY

CALL NUMBER

CLASSIFICATION

ACQUISITION

REMARKS

1000 S. EAST ASIAN BLDG.
CHICAGO, ILL. 60607

DATE

BY

CALL NUMBER

CLASSIFICATION

ACQUISITION

REMARKS

YORKSHIRE MUSEUM.

AT A GENERAL MEETING of the BUILDING COMMITTEE,
held at the Rooms of the Yorkshire Philosophical Society,
York, July 31st, 1827 :

PRESENT,

HIS GRACE THE ARCHBISHOP, IN THE CHAIR ;

HON. AND REV. H. HOWARD	REV. R. CROFT
HON. M. LANGLEY	BENJ. DEALTRY, Esq.
SIR G. CAYLEY, BART.	REV. W. H. DIXON
SIR. J. V. B. JOHNSTONE, BART.	REV. J. GRAHAM
SIR J. LOWTHER, BART. M.P.	GEORGE HARTLEY, Esq.
R. F. WILSON, Esq. M.P.	W. MARSHALL, Esq.
G. L. THOMPSON, Esq. M.P.	HENRY PRESTON, Esq.
THE DEAN OF YORK	REV. T. C. R. READ
ARCHDEACON EYRE	E. S. STRANGWAYES, Esq.
ARCHDEACON MARKHAM	EUST. STRICKLAND, Esq.
JAMES ATKINSON, Esq.	ANTHONY THORPE, Esq.
JOHN BELL, Esq.	REV. W. V. VERNON
RICHARD BETHELL, Esq.	REV. C. WELLBELOVED

DR. GOLDIE,

MR. W. GRAY, JUN. }

SECRETARIES.

The Report of the Subcommittee having been read ; and
the Plan and Elevation of the intended Building, designed
by WILLIAM WILKINS, Esq. R.A. and F.S.A. having been
submitted to the Meeting :—

RESOLVED UNANIMOUSLY,

That the Report now read, and the accompanying Plan and Elevation be adopted.

That the Report be printed for distribution.

That the Details of the execution of the Objects contained in the Report, be wholly referred to the Subcommittee.

That the General Committee recommend that an APPEAL be made to the COUNTY AT LARGE, for an increase of the Subscription, towards carrying into effect the excellent Plan brought forward by the Subcommittee, and now adopted, and about to be carried into immediate execution.

That the Subcommittee be instructed to request Payment of all Subscriptions which remain unpaid.

That the thanks of this Meeting be given to the Subcommittee, for their zealous Exertions in promoting the Objects of their appointment.

E. EBOR. Chairman.

His Grace the Archbishop having left the Chair, which was taken by Sir George Cayley, Bart.

RESOLVED UNANIMOUSLY,

That the thanks of the Meeting be given to His Grace the Archbishop, for his kindness in taking the Chair, and his attention to the business of the Meeting.

GEO. CAYLEY.

REPORT OF THE SUBCOMMITTEE.

THE BUILDING SUBCOMMITTEE of the Yorkshire Museum, in submitting the measures which they have to propose, to the judgment of the General Committee, beg leave to make a short statement of their proceedings and views.

As soon as it was intimated to the Subcommittee, that the Act was passed which removed the legal obstacle to the expected grant of Crown Land on the Manor Shore, means were immediately adopted by them to prepare a Design and Estimate, to be laid before the General Committee, whenever the warrant for the Grant should be issued by the Treasury.

There were two methods of effecting this object ; by proposals for plans to several Architects ; or, by fixing upon some distinguished individual, and relying on his judgment and taste, so far as respects the Architectural effect. The latter of these methods appeared to the Subcommittee entitled to a decided preference, as being not only less expensive, but more likely to prove satisfactory to the Public. They were of opinion that a Design, accredited by the name of an eminent Master, would come much better recommended, than one resting on the decision of an unprofessional Committee.

The offer therefore of Mr. Wilkins met with a most ready acceptance—that if the Committee would consent to carry into execution a chaste and simple design, he would give a plan and elevation for the Building ; and also furnish drawings for the workmen, on condition that the details should be strictly attended to.

That such ought to be the character of the design, there could be no doubt, whatever the style of Architecture might be ; but a question existed as to the style which it might be proper to adopt. On the one hand, an opinion was entertained, that Gothic Architecture would be most in conformity with the genius of the place, and with the venerable Ruins contiguous to the new Institution, and entrusted to the care of its Members. On the other hand, a Gothic Museum was represented as an anomaly which it would be impracticable to execute, without at once offending good taste, and sacrificing the convenience of the Institution ; and it was remarked, that buildings of very different styles, Classical and Gothic, are seen mingled together in our Universities, with an effect neither incongruous nor unpleasing.

Such a question, it was thought by the Subcommittee, could not be referred to a better judge than Mr. Wilkins ; who, whilst he has shown an intimate acquaintance with Grecian Architecture, has been also eminently successful in the Gothic style. Mr. Wilkins's answer was expressed in the following terms : " I am decidedly of opinion that the Architecture should be Grecian : you have such Gothic at York, that any design in the same style must appear trifling." And in a subsequent communication he added : " I have again and again considered what you have stated with regard to the site ; and I am the more convinced that, in *every* point of view, the style of Architecture to be adopted in your Museum *must* be Grecian ; I cannot reconcile the notion of any other style, either to the locality or the purpose of the building¹."

¹ Mr. Chantrey, whose judgment is of high authority on all subjects of taste, made the same objection to a Gothic design, nearly in the same words.

In this judgment the Subcommittee have coincided ; and the Design which they now present to the General Committee, will be found to exhibit a Grecian Doric front of about a hundred feet in length.

Mr. Wilkins has observed, that there is very little correct Greek Architecture in the kingdom, and that the correct is not more expensive than that which is otherwise. In the present instance, there is every security that the true proportions of that noble Architecture will be preserved : there is every security that the general effect will be fully obtained, which depends upon the contour of mouldings, and the light and shade arising from a strict attention to the mathematical sections of the ancient Architects ; for those sections and proportions have been studied and measured on classical ground, both by the Designer of the Elevation, and by the Architect ¹ whom the Subcommittee have invited to superintend the execution of it.

The Architectural front is of a height which will comprise two stories. It is intended to be faced with stone, and is so prolonged as to mask the rest of the Building, which, being but one story high, and lighted by sky-lights, may be completely concealed, in a short time, by plantation ; a disposition which, confining the expense of ornament to the front, may, it is hoped, satisfy the public taste, without too great a sacrifice of economical accommodation.

Of the internal plan, which is founded upon one formerly furnished by Mr. Sharp, and adopted with a few alterations by Mr. Wilkins, it is only necessary to observe, that the

space which it affords, is, in the opinion of the Subcommittee, neither more nor less than what the Institution ought to have ; and that the arrangement of it is such as will be both commodious and handsome.

But before the sanction of the Committee to this plan and elevation can be asked, it will be requisite to state the expense at which the execution of it has been estimated. It is proposed by the Subcommittee to build by contract ; to consider the specifications maturely, and abide by them rigidly ; to receive tenders for the work ; to require security from the contractors, and to provide for such a vigilant superintendence as may ensure the due performance of the contracts. The estimate now laid before the Meeting, is calculated upon this basis. It is an estimate of a sum, which, in the Architects' judgment, will cover the tenders to be expected at the present prices of materials and labour. Its amount is Five thousand six hundred and fifty pounds ; being three hundred pounds more than the funds which have been as yet subscribed.

The Subcommittee are well aware, that it is not advisable to lay out upon the Building the entire Subscription, much less to exceed it : they would greatly desire to have a surplus of one or two thousand pounds, for fencing the three acres of ground which the Crown has granted to the Society, for making the road from the new entrance promised by the Corporation, and for furnishing the Museum ; but they trust that such a surplus may yet be obtained, without retrenching from the present plan : they find, on the renewal of their applications to the County for further Subscriptions, additional aid immediately flowing in ; and they have formed a confident expectation, from the public interest which

they see awakened to the subject, that a sufficient surplus may be reckoned upon, to meet the extra expenses.

But even if this expectation should be disappointed, by executing the plan in the method which the Subcommittee would recommend, no risk of loss need be incurred. They would propose, if a deficiency of Subscriptions should appear, to defer the contracts for the internal finishing of part of the Museum, and for the interior finishing of part of the upper story in front ; by which means the estimate would be considerably diminished.

The Subcommittee are fully sensible of the inconvenience which would result from these retrenchments. It would be a matter of deep regret to them, if the want of funds should unfortunately compel them to leave the Museum incomplete, and the adjoining ground unimproved ; but they also feel that it would be highly injurious to the interests and prospects of the Institution, either to contract the present design, or to delay its execution. They are of opinion, that it would be much more detrimental to the objects of the Society, permanently to narrow the foundations of the Building, than to leave some of the apartments, for the present, unfinished. But they confidently hope to be spared even this mortification, and to find the precautions, which they think it expedient to keep in view, rendered unnecessary, by the support which is still to be expected, and which is due from the County of York, to such an Institution as a YORKSHIRE MUSEUM.

JULY 30th, 1827.

ON WEDNESDAY the 24th of October, 1827, His Grace the ARCHBISHOP of YORK, accompanied by the Right Honourable the LORD MAYOR¹, and attended by the President, Council, and Committee, with the resident Architect, laid the FIRST STONE of the Yorkshire Museum, near the north west angle of the intended edifice.

After performing the usual ceremonies, the ARCHBISHOP addressed the President in the following words :

“ MR. PRESIDENT, AND GENTLEMEN OF THE COMMITTEE,

“ It is with the truest pleasure, that I have now executed the task assigned to me, and have laid the First Stone of your intended Museum.

“ I rejoice, indeed, that the moment has at length arrived, when a building for this purpose, worthy of the Yorkshire Philosophical Society, is about to be erected ; a building calculated to contain not only the present, but whatever further treasures of Natural History and of philosophical research, may hereafter be added to the rich and valuable Collection which the Society already possess. And when we recollect that this Institution has existed little more than five years, and may, therefore, in some sense, be regarded as yet only in its infancy ; when we recollect, too, the difficulties of various kinds which impeded its early progress, to say nothing of the doubts which were, at first, pretty generally entertained of its ultimate success ; when all this is considered, we may fairly, I think, congratulate ourselves on the position we this day assume, assembled as we are for such a purpose as the present.

¹ William Hutchinson Hearon, Esq.

“But the native generosity of Yorkshiremen, their love of knowledge, and, above all, that laudable jealousy which never suffers them to come behind other counties in promoting and fostering useful Institutions of every kind—the union of all these feelings supplied the means of erecting a Museum of such a character, as will, I confidently trust, add another proud ornament to the many which at present distinguish the City of York, and prove at the same time, an honourable and lasting monument of the zeal and exertions of those who, under the blessing of God, have been mainly instrumental in the accomplishment of so desirable an object. I will add but one more word—**FLOREAT!**”

The **PRESIDENT** replied as follows :

“**MY LORD ARCHBISHOP,**

“We are sufficiently reminded by the Ruins amongst which we stand, the mingled ruins of two great preceding structures, that the Building which we are now about to raise, though rising under the most favourable auspices, honoured with the highest Patronage, and dedicated to the most useful objects, cannot be expected to last for ever.

“I am directed, my Lord, by the Building Committee of the Yorkshire Philosophical Society, to request, that your Grace would be pleased to deposit in the new Foundations, these Records of the Society, being the Reports of the Institution from its first commencement in 1823; that when, after benefiting, as we trust in Providence it may, many successive generations, this Building shall undergo the common fate of all the works of man, an honourable memorial of these times may hereafter perhaps be found, in a more advanced age of the world, by which it may appear, that however little, in this infancy of Art and Science, we may have known, we knew at least the value of knowledge, and did our best, my Lord, to promote its advancement.”

MR. VERNON then placed in the hands of the Archbishop, a copper case containing the Reports, which His Grace deposited in a cavity prepared for it in the stone, and covered it with a brass plate, bearing the following inscription :

THE · FIRST · STONE · OF · THE ·
 YORKSHIRE · MUSEUM ·
 LAID · ON · THE ·
 TWENTY · FOURTH · DAY · OF · OCTOBER ·
 IN · THE · YEAR · OF · OUR · LORD ·
 M · DCCC · XX · VII ·
 IN · THE · EIGHTH · YEAR · OF · THE · REIGN ·
 OF · KING · GEORGE · THE · FOURTH ·
 BY · EDWARD ·
 LORD · ARCHBISHOP · OF · YORK ·
 ON · PART · OF · THE · ANCIENT · SITE · OF ·
 THE · ABBEY · OF · SAINT · MARY ·
 GRANTED · BY · THE · CROWN · TO · THE ·
 YORKSHIRE · PHILOSOPHICAL ·
 SOCIETY ·
 WILLIAM · WILKINS · R.A. F.S.A.
 RICHARD · HEY · SHARP · ARCHITECTS ·

PRIVILEGES OF SUBSCRIBERS

TO THE

BUILDING FUND.

At a Special General Meeting of the YORKSHIRE
PHILOSOPHICAL SOCIETY, held May 2nd, 1825,

RESOLVED—That the following Privileges be given to
CONTRIBUTORS to the BUILDING FUND, who are not
Members of the Society :—

1. A Contribution of FIFTY Pounds and upwards, shall entitle the Contributor, for life, to personal admission to the Museum, with the power of introducing Visitors ; and to personal admission to the Library, and to the scientific part of the General Meetings.

2. A Contribution of TWENTY-FIVE Pounds and upwards, shall entitle to personal admission for life, to the Museum and Library, with the power of introducing Visitors to the Museum.

3. A Contribution of FIFTEEN Pounds and upwards, shall entitle to personal admission for life, to the Museum, with the power of introducing Visitors.

4. A Contribution of TEN Pounds shall entitle a Lady to personal admission for life, to the Museum, with the power of introducing Ladies as Visitors.

5. A Contributor of FIFTEEN Pounds and upwards, may, at any future time, on being duly balloted for, be admitted a Member of the Society, without payment of Admission Money.

SUBSCRIPTIONS TO THE BUILDING FUND.

	£.	s.		£.	s.
Agar, Benjamin, <i>Brockfield</i>	25	0	Cattle, Mr. Sheriff	15	0
Alexander, Wm. and Son	10	10	Carr, Matthew	10	10
Allen, Oswald	10	10	Cayley, Sir George, Bart.	50	0
Atcheson, Henry, <i>London</i>	10	10	Cayley, E. S. <i>Wydale</i>	10	0
Atkinson, James	10	10	Chaloner, Robert, <i>Guisbro'</i>	50	0
Atkinson, John B.	15	0	Champney, George	10	10
Backhouse, Thomas	10	10	Chivers, Thomas, <i>Askham</i>	21	0
Baines, H. J. <i>Bell Hall</i>	15	0	Cholmeley, Francis, <i>Brandsby</i>	50	0
Barber, Cattle, and North	15	0	Cholmley, George, <i>Howsham</i>	50	0
Barnes, Rev. Theophilus, <i>Castleford</i>	5	0	Chorley, E. M. D. <i>Doncaster</i>	10	10
Barstow, Thomas, <i>Naburn</i>	15	0	Clarkson, B. <i>Kirkham Abbey</i>	25	0
Bathurst, Rev. W. H. <i>Barwick</i>	10	10	Cooke, Sir W. Bart.	25	0
Beckwith, Stephen, M. D.	10	10	Cooke, P. Davies, <i>Owston</i>	25	0
Beckwith, Francis, <i>London</i>	20	0	Copley, E. T. <i>Halnaby</i>	20	0
Belcombe, H. Stephens, M. D.	10	10	Copsie, F. J.	15	0
Bell, John	10	10	Cracroft, R. <i>Hackthorn, Lincolnsh.</i>	15	0
Bethell, Richard, <i>Rise.</i>	50	0	Creyke, Ralph, <i>Rawcliffe</i>	25	0
Blanchard, John	5	5	Croft, Harry, <i>Stillington</i>	25	0
Bland, T. Davison, <i>Kippax</i>	25	0	Croft, Rev. R. <i>Rowley</i>	25	0
Bland, J. <i>Ormside Lodge</i>	10	0	Crompton, Joshua, <i>Esholt.</i>	50	0
Bilton, William	10	10	Crompton, Samuel, M. P.	30	0
Bower, Robert, jun. <i>Sutton Cottage</i>	25	0	Crompton, W. Rookes, <i>Sion Hill</i>	20	0
Bower, Rev. J. W. <i>Welham</i>	15	0	Crosse, John, <i>Hull</i>	5	5
Bower, G. H. <i>Welham</i>	15	0	Currer, Rev. D. R. <i>Clifton House</i>	25	0
Briggs, William, <i>Clifton</i>	15	0	Currer, Miss, <i>Eshton Hall</i>	25	0
Brooksbank, Miss, <i>Lilling Hall</i>	10	0	Dallin, Rev. James	5	5
Brown, John F.	10	10	Dalton, John, <i>Sleningford</i>	50	0
Bulmer, John	15	0	Dalton, Richard	10	0
Bulmer, Rev. William	5	5	Danby, W. <i>Swinton Park</i>	50	0
Burnell, Martin, <i>Copmanthorpe</i>	10	10	————— second subscription	20	0

	£.	s.		£.	s.
Davies, Robert	5	5	Graham, Rev. John	10	10
Dealtry, Benj. <i>Lofthouse</i>	10	10	Graham, Rev. J. B.	10	10
Denison, Robert, <i>Kilnwick Percy</i>	30	0	Graham, Hewley	15	0
Denison, Robert, jun. <i>Elwington</i>	20	0	Grantham, Lord	100	0
Dikes, W. H. <i>Hull</i>	5	5	Gray, William	30	0
Dixon, Rev. W. H. <i>Bishopthorpe</i>	25	0	Gray, Jonathan	25	0
Downe, Viscount	50	0	Gray, Rev. E. <i>Kirbymoorside</i>	15	0
Drake, Rev. Dr. <i>Langton</i>	10	10	Greame, John, <i>Sewerby</i>	25	0
Drake, Richard (<i>deceased</i>)	10	10	Grimston, C. <i>Grimston Garth</i>	25	0
Drury, G. V. <i>Rose Cottage</i>	10	10			
Duffin, William	20	0	Hailstone, Samuel, <i>Croft House</i>	15	15
Duncombe, Hon. W. M.P.	30	0	Hailstone, Rev. J. <i>Trumpington</i>	15	0
Dundas, Lord	52	10	Hall, William	15	0
Dundas, Sir R. L. K.C.B.	50	0	Hamerton, J. <i>Hellifield Peel</i>	5	0
Dunn, Mrs.	10	0	Hargrove and Co.	5	5
			Harland, W. C. <i>Sutton Hall</i>	25	0
Edmonds, F. O. <i>Warmsworth</i>	25	0	Hartley, G. <i>Middleton Lodge</i>	25	0
Ellison, John	15	0	Harwood, John	5	5
Ellison, Richard, jun. <i>Scarbro'</i>	21	0	Hearon, W. H. Lord Mayor 1827	20	0
————— second Subs.	26	5	Henwood, Henry (<i>deceased</i>)	10	10
Etridge, Thomas	5	5	Higgins, Godfrey, <i>Skellow Grange</i>	25	0
Eyre, Rev. Archdeacon	25	0	Hildyard, J. B.	25	0
			Hornby, R. W. B.	25	0
Fairfax, C. G. <i>Gilling Castle</i>	25	0	Hornor, Benjamin	10	10
Fawkes, F. H. <i>Farnley</i>	50	0	Hotham, Lord	50	0
Feversham, Lord	100	0	Howard, Hon. and Rev. Henry	20	0
Fitzwilliam, Earl	300	0	Hudson, George	25	0
Flounders, Benjamin, <i>Yarm</i>	15	0	Hustler, John, <i>Undercliffe</i>	50	0
Flounders, Miss, <i>Yarm</i>	10	0	Hustler, John, jun. <i>Bradford</i>	21	0
Fothergill, Elizabeth	10	10	Hutton, John, High Sheriff 1825	100	0
Fox, Rev. T. L.	10	0	Hutton, John, <i>Sobergate</i>	25	0
Frankland, Sir T. Bart.	10	0			
Frost, Charles, <i>Hull</i>	5	0	Johnstone, Sir J. V. B. Bart.	50	0
Garforth, W. <i>Wiganthorpe</i>	50	0	Kendall, Rev. F. <i>Riccall</i>	5	0
Gascoigne, R. O. <i>Parlington</i>	50	0	Kenrick, Rev. J.	10	10
Gastaldi, Charles	10	0	Kilvington, Rev. E. <i>Ripon</i>	20	0
Goldie, George, M.D.	10	10	Kirby, William	5	5

THE BUILDING FUND.

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	£.	s.		£.	s.
Knight, H. G. <i>Firbeck Hall</i>	25	0	Prest, Henry (<i>deceased</i>)	15	0
Langdale, Hon. Charles	25	0	Preston, Henry, <i>Moreby</i>	50	0
Langley, Hon. M. high sheriff 1826	100	0	Pritchett, J. P.	5	5
Lawley, Francis, M.P.	21	0	Raikes, Robert, <i>Welton House</i>	25	0
Lawrence, Mrs. <i>Studley Park</i>	50	0	Rayment, Rev. Benedict	15	0
Lawson, Andrew, <i>Aldborough</i>	20	0	Read, Rev. T. C. R. <i>Sand-Hutton</i>	25	0
Lawton, George	5	5	Rishworth, James	25	0
Leatham, J. A. <i>Heath</i>	15	0	Robinson, Henry	15	15
Leatham, W. H. <i>Heath</i>	15	0	Russell, James	10	10
Lloyd, Colonel, <i>Kingthorpe</i>	25	0	Russell, David	25	0
Lloyd, George, <i>Acomb</i>	20	0	Salmund, William	10	10
Lloyd, George, <i>Faceby Lodge</i>	20	0	Simpson, Thomas, M.D.	21	0
Lowther, Sir John, Bart. M.P.	50	0	Sinclair, R. Recorder of York	20	0
Macdonald, Lord	50	0	Slingsby, Sir T. Bart.	50	0
Markham, Rev. Archdeacon	50	0	Smith, Mr. Alderman	25	0
Marshall, John, M.P.	50	0	Smith, Miss M. W. <i>London</i>	15	0
Marshall, W. <i>Newton Kyme</i>	50	0	Spencer, Isaac, jun. <i>Plantation</i>	10	10
Maude, Francis, <i>Hatfield Hall</i>	10	10	Standish, Henry, <i>Doncaster</i>	15	0
Meynell, George	10	10	Stanhope, Spencer, <i>Cannon Hall</i>	25	0
Middleton, Lord	100	0	Stapleton, Miles, <i>Carlton</i>	25	0
Mills, Joshua	10	10	Stapylton, Martin, <i>Myton</i>	50	0
Milton, Viscount, M.P.	50	0	Stourton, Lord	50	0
Monson, Hon. and Rev. Thomas	15	0	Stourton, Hon. Philip	25	0
Murray, Lindley (<i>deceased</i>)	25	0	Strickland, Eust.	10	10
Norcliffe, Mrs. <i>Langton</i>	10	0	Strickland, George, <i>Newton</i>	21	0
Norcliffe, Norcliffe, <i>Lotherton</i>	25	0	Strangways, E. S. <i>Athe</i>	10	10
Oldfield, W. Lord Mayor 1825	50	0	Swann, Clough, and Co.	300	0
Osbaldeston, Henry, <i>Hunmanby</i>	50	0	Sykes, Rev. Christopher, <i>Rooss</i>	10	10
Osbaldeston, Miss, <i>Hunmanby</i>	50	0	Taylor, John	5	5
Overton, Rev. John	15	0	Taylor, Michael	10	10
Pemberton, John	25	0	Terry, John, <i>Hull</i>	5	0
Petre, Hon. Edward R.	52	10	Thompson, G. Lowther, M.P.	25	0
Pickard, Rev. W. L.	10	10	Thompson, R. J. <i>Kirby Hall</i>	50	0
Prest, Edward, <i>Heslington</i>	15	0	Thompson, Rev. R. S. <i>Bilbrough</i>	10	10
			Thompson, William	5	5
			Thorpe, Anthony	25	0

	£.	s.		£.	s.
Todd, J. and G.	10	10	Whittell, J. F.	15	15
Tyrconnel, Earl of	21	0	Wilberforce, William	21	0
Tuke, Daniel	21	0	Wilkinson, George, <i>Thorp-Arch</i>	15	0
Tuke, John	5	5	Willoughby, Henry, M.P.	15	0
Tuke, Samuel	25	0	Wilson, James, M.P.	50	0
Turner, Rev. W. jun.	10	10	Wilson, Joseph B.	15	0
Tweedy, J. D.	21	0	Wilson, M. <i>Eshton Hall</i>	25	0
			Wilson, R. F. M.P.	50	0
Vansittart, Henry, <i>Kirkleatham</i>	50	0	Wilson, Thomas W.	15	0
Vavasour, Hon. Sir E. M. Bart.	25	0	Winn, Charles, <i>Nostell Priory</i>	50	0
Vavasour, Sir H. M. M. Bart.	25	0	Wolstenholme, John	5	5
Vernon, Rev. C. V. <i>Rothbury</i>	10	10	Wood, Sir Francis L. Bart.	50	0
Vernon, Egerton V.	10	10	Wormald, Richard	15	0
Vernon, Granville V. <i>Grove</i>	10	10	Worsley, William, <i>Hovingham</i>	20	0
Vernon, Rev. L. V. <i>Stokesley</i>	20	0	Wrangham, Rev. Archdeacon	10	10
Vernon, Rev. W. V. <i>Wheldrake</i>	50	0	Wright, William	5	5
Wake, Baldwin, M.D.	10	10	Yarburgh, Henry, <i>Heslington</i>	50	0
Wasse, J. M.D. <i>Moat Hall</i>	10	10	Yarburgh, N. E. <i>Heslington</i>	25	0
Wellbeloved, Rev. C.	10	10	York, Archbishop of	100	0
Wentworth, John	25	0	York, The Corporation of	200	0
Wharnccliffe, Lord	50	0	York, Dean of	50	0
Wharton, John T. <i>Aberford</i>	10	10	Yorke, John, <i>Bewerley</i>	25	0

TOTAL, *March 6th*, 1828.....£6591. 15s.

MEMOIRS AND COMMUNICATIONS

READ TO THE SOCIETY.

FEB. 6th, 1827.—On Capillary Attraction, by the Rev. J. B. Emmett, Hon. Mem. Y. P. S.

On Tumuli or "Twin-Barrows" in the parish of Thixendale, by the Rev. T. Rankin.

MARCH 6th.—On the Chromo-Phosphate of Lead, by the Rev. W. V. Vernon, F. R. S. Pres. Y. P. S.

On the Construction of a Reservoir near Scarborough, on Geological principles, by William Smith, Civil Engineer, Hon. Mem. Y. P. S.

APRIL 3rd.—On the Graduation of Thermometers, by Thomas Donkin, M. Y. P. S.

OCT. 2nd.—On the History of St. Mary's Abbey, York, by Eust. Strickland, M. Y. P. S.

A description of the manner in which the female of *Sirex juvencus* provides for the deposit of its eggs, by Thomas Allis.

Nov. 6th.—On the Geology of the Orkney Isles, by the Rev. C. Clouston, Minister of Stromness : (*communicated by Wm. Marshall, F. G. S.*)

Account of the discovery of a large Urn and human bones, in a barrow near Bishop-Burton, by Thomas Hull, M. D.

JAN. 1st. 1828.—On the Geology of the N. W. side of the Vale of Pickering, by John Phillips, F. G. S. Keeper of Mus. Y. P. S.

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

1827.

FEBRUARY.

- | | | |
|------------------------|---|---|
| H. Witham, Esq..... | } | 99 Additional specimens of overlying, secondary, and primary Rocks of Scotland. |
| Mr. J. Phillips..... | | |
| Rev. C. V. Vernon..... | | Fossil wood, from near Scarborough. |
| | | Ball of Ironstone, containing organic bodies, from Northumberland. |

MARCH.

- | | | |
|--|---|--|
| F. Cholmeley, Esq..... | } | Specimens from a well near Reading, containing <i>Vivipara</i> , <i>Cyclas</i> , <i>Pectunculus brevirostris</i> , &c. |
| Rev. W. Richardson..... | | |
| | | Mass of Coal and Carbonate of Lime from Whitehaven. |
| W. Marshall, Esq..... | | 11 Fossils. |
| Rev. W. V. Vernon,
W. Marshall, Esq.
G. Goldie, M.D. | } | Fossil Shells resembling <i>Venus Islandica</i> ; and fossil wood, from Iceland. |

APRIL.

- | | |
|------------------------|---|
| Rev. L. V. Vernon..... | Additional specimens from Roseberry Topping. |
| Mr. Wm. Gray, jun..... | Mass of fossil shells, corals, &c. from Dudley. |

JULY.

Mr. R. Ripley.....	}	102 Fossils from the Alum Shale of Whitby, and the "Dogger beds" in Glazedale.
Mr. S. Woodward.....		17 Fossils from the Chalk of Norwich, and the diluvium of Palling, Norfolk.
W. Marshall, Esq.....		28 Volcanic Rocks from Vesuvius.
Rev. J. Chaloner.....		<i>Producta gigantea</i> .
J. C. Powell, Esq.....		<i>Lepidodendron</i> .
Rev. C. V. Vernon.....	}	7 Specimens from the Mountain Limestone series of Northumberland, containing a remarkable species of Fossil wood.
J. S. Crompton, Esq.....		Fossil Crab (<i>Portunus?</i>) from Gibel Mokattam, near Cairo.
R. I. Murchison, Esq.....	}	Cast of the upper part of the femur of a gigantic fossil Saurian, found in Sussex.
Rev. W. V. Vernon.....		Specimens from the junction of Chalk & Marlstone, near Market-Weighton.
Rev. T. Rankin.....		Radius and Ulna of Ox, from a gravel-pit at Middleton on the Wolds.
Mr. J. Phillips.....		2 Fossil Caryophylliæ.

OCTOBER.

Sir J. V. B. Johnstone, Bart.	}	Specimens from Switzerland.
Mr. Sheriff Barber.....		24 Rock specimens from Scotland.
Lieut. Gen. Sharpe, (<i>by</i> <i>W. Marshall, Esq.</i>)	}	Fossils from Dumfries-shire.
Mr. J. Phillips.....		<i>Astræa Lithostrotion</i> from Moughton Scar, and 5 other Fossils.

Mr. Otley, (by Mr. Phillips)	} Piece of rock containing Garnets, from Cumberland.
Mr. Beau.....	31 Fossil Plants found near Scarborough.
W. Marshall, Esq.....	Fossils from near Thirsk.
Capt. O. V. Vernon.....	} 73 Rocks and Fossils from the West Indies, including fossil shells from Barbuda, agatized corals and wood from Antigua.
Rev. W. V. Vernon.....	} Bones of a Saurian Animal from Whitby, and other specimens from various localities.
Mrs. G. Bulmer.....	Portion of a jointed fossil plant? from the diluvium of the Yorkshire coast.
Purchased.....	5 Fossils from Whitby.

NOVEMBER.

C. Preston, Esq.....	7 Fossil Plants, &c. Scarborough.
Rev. C. Clouston.....	26 Specimens illustrative of the Geology of the Orkneys.
Rev. W. Bulmer.....	2 Specimens of Magnesian Limestone.
Mr. J. Bleckly.....	Pecten from the diluvium of the Terrace cliff, Scarborough.
Rev. S. Sharp.....	Alcyonium from near Hertford.
John Bland, Esq.....	10 Geological specimens.
Rev. L. V. Vernon.....	Fossils from near Stokesley.
Purchased by the Council.	} 104 Fossils from the Kimmeridge clay, Kelloways, Cornbrash, and Inferior oolite of the Yorkshire coast.

DECEMBER.

Rev. C. V. Vernon.....	5 Fossil Plants, &c. Northumberland.
Rev. S. Sharp.....	Alcyonium and Producta.
Rev. J. Graham.....	Pyritous Slate, Newfoundland.

Miss Cattley..... 3 Vesuvian specimens.

1828.

JANUARY.

W. Salmond, Esq..... Crania of Stag and Monkey, from the excavations at York Castle.

Mr. R. Ripley..... 3 Fossils.

Rev. W. Richardson..... Fossil wood, from the Gypsum of Fairburn.

Miss Atkinson..... 5 Fossils from Weymouth and Portland.

Directors of the Museum at Prague, (*by E. V. Vernon, Esq.*) } 20 Specimens illustrative of the Geology of part of Bohemia.

Rev. S. Sharp..... Gigantic Lepidodendron, from near Wakefield.

MINERALOGY.

1827.

FEBRUARY.

Rev. W. V. Vernon..... } Sulphuret of Nickel, Copper, and Iron; and Carbonate of Zinc and Manganese, from Keswick.

APRIL.

Mr. W. Gray, jun..... 9 Minerals, principally from Scotland.

Rev. L. V. Vernon..... } Amethyst, and Carbonate of Lime crystallized, in geodes from the whinstone-dyke near Stokesley.

JULY.

Eust. Strickland, Esq..... 7 Minerals from Patley Bridge.

OCTOBER.

Sir J. V. B. Johnstone, Bt.	12 Foreign Minerals.
Mr. Copsie.....	3 Minerals from Westmoreland.
Rev. E. Wood.....	11 Specimens of various oxides of Tin, and 4 other Minerals, from Cornwall.
Rev. L. V. Vernon.....	} Chalcedony with Carbonate of Lime in a geode, from the whinstone-dyke at Stainton in Cleveland. Septarium.
Capt. O. V. Vernon, R.N.		Specimens of Carbonate of Copper, from South America.
Mr. Ollive Sims.....	32 Minerals from North America.

NOVEMBER.

Capt. O. V. Vernon, R.N.	Compact Bitumen from Trinidad.
J. Bland, Esq.....	Carbonate of Strontian from Pately.
Mrs. M. Dixon.....	4 English Minerals.
Rev. C. Clouston.....	3 Specimens from Labrador.

1828.

JANUARY.

Mr. Sandoz.....	4 English Minerals.
Rev. F. Kendall.....	Specimen of Cannel Coal.
Directors of the Museum at Prague, (<i>by E. V. Vernon, Esq.</i>)	} 7 Foreign Minerals.

ZOOLOGY.

MAMMALIA.

1827.

FEBRUARY.

- W. Marshall, Esq..... Ornithorhynchus paradoxus, m. & f.
from New Holland.

MARCH.

- W. Wright, Esq..... Skull of the Black Bear of North
America, (*U. niger americanus.*)

APRIL.

- W. Wright, Esq..... Skull of the Fox.

OCTOBER.

- Mr. T. Backhouse..... Skeleton of Greyhound.
Mr. Bewlay..... Skull and horns of Ram.
Mr. E. Rigge..... Squirrel, (*Sciurus vulgaris.*)
Mr. G. Sawyer..... } Portions of the aorta and heart of the
Whale, (*Physeter macrocephalus*)
cast on the Holderness shore, 1825.
Anonymous..... Long-eared Bat, (*Vespertilio auritus.*)

NOVEMBER.

- Capt. O. Vernon..... Ant-bear, (*Myrmecophaga jubata*)
from South America.

BIRDS.

1827.

FEBRUARY.

Mr. T. Backhouse.....	Little Auk, (<i>Alca alle.</i>)
Mr. J. Mellor.....	North American Chatterer, (<i>Ampelis carolinensis</i>) f.
Lieut. C. Strickland.....	Canadian Grouse. Canadian Dove.
Capt. Gossip.....	Golden-eye Duck, (<i>Anas clangula</i>) f.

MARCH.

Archbishop of York.....	Two pied Pheasants.
Lieut. C. Strickland.....	{ Canadian Snipe. Canadian Woodcock. Canadian Woodpecker.
E. Strickland, Esq.....	Barnacle Goose, (<i>Anas erythropus.</i>)
Rev. C. Johnstone.....	{ Widgeon, (<i>Anas Penelope.</i>) Scaup duck, (<i>Anas Marila</i>) m. Black & white Dobchick, (<i>Podiceps nigricans.</i>)

APRIL.

Lawrence Edmonstone, Esq.	{ Iceland Gull, (<i>Larus islandicus</i>) m. & f. Immer Diver, (<i>Colymbus Immer</i>) m. & f. Black & white Dobchick, (<i>Podiceps nigricans</i>) m. & f.—all from Zetland.
Dr. Goldie.....	Long-eared Owl, (<i>Strix Otus.</i>)
Arthur Strickland, Esq:...	Red-legged Crow, (<i>Corvus graculus.</i>)
E. Strickland, Esq.....	Shoveller Duck, (<i>Anas clypeatus</i>) m. & f.

JULY.

- E. Strickland, Esq. { Ash-coloured Harrier, (*Falco cinereus*)
m. & f.
Black-chin Grebe, (*Podiceps nigricol-
lis*) m. & f.
- Mr. W. Gray, jun. { Hen Harrier, (*Falco cyaneus*) m.
Common Gull, (*Larus canus*.)
Tern, (*Sterna Hirundo*.)
Water Ouzel, (*Cinclus aquaticus*.)
- Mr. H. Chapman. Puffin, (*Alca arctica*.)

OCTOBER.

- Mr. E. Rigge. { Owl, from S. America.
Common Tern, (*Sterna Hirundo*.)
Razor-bill, (*Alca torda*.)
- W. Marshall, Esq. 5 Young Kingfishers, (*Alcedo hispida*.)
5 Eggs of Ditto.
- Mr. W. Gray, jun. { Oriole, (*Oriolus galbula*.)
Goatsucker, (*Caprimulgus europæus*.)
Raven, (*Corvus corax*.)
- E. Strickland, Esq. Scoter Duck, (*Anas nigra*) m.
Avoset, (*Recurvirostra avosetta*.)

DECEMBER.

- Mr. Joseph Backhouse. . . . Trachea and Sternum of Wild Swan.
- Rev. W. V. Vernon. { Long tailed Manakin, (*Pipra caudata*)
and Humming-bird, both from
America.
- Zoological Fund. { Short eared Owl, (*Strix brachyotos*)
m. & f.
Black Tern, (*Sterna fissipes*) m. & f.
Scoter Duck, (*Anas nigra*) f.
Ringed-Plover, (*Charadrius hiaticula*)

Zoological Fund *	}	Brent Goose, (<i>Anas Bernicla.</i>)
		Cormorant, (<i>Pelicanus carbo.</i>)
		Long tailed Duck, (<i>Anas glacialis</i>) f.
		Lesser Guillemot, (<i>Uria minor.</i>)

1828.

JANUARY.

N. E. Strickland, Esq.	Pied Flycatcher, m. f. and young bird, (<i>Muscicapa atricapilla.</i>)
C. Gastaldi, Esq.	Dun diver, (<i>Mergus Merganser</i> or <i>Castor.</i>)

REPTILES.

1827.

OCTOBER.

G. Champney, Esq.	Skeleton of the Hawksbill Turtle, (<i>Testudo imbricata, Linn.</i>)	
	Young Alligator, (<i>Crocodylus Lucius.</i>)	
Capt. O. V. Vernon, R.N.	}	1 Lizard of the family Lacertidæ, Cuv.
		2 Lizards of the family Iguanidæ, Cuv.
		Amphisbæna fuliginosa, and 2 species of Coluber.
	Plate of Tortoise Shell.	

NOVEMBER.

Captain O. V. Vernon.	2 Rattles of the Rattle Snake.
Mrs. M. Dixon.	Cranium of the common Turtle, (<i>Testudo Mydas.</i>)
Mrs. Best.	Testudo græca.

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FISHES.

1827.

OCTOBER.

Captain O. V. Vernon.....	}	A flying Fish.
		Opah or Butterfly fish.
		A species of Squalus.
		4 Jaws of Fishes.
		Diodon Hystrix.
Dr. Goldie.....		Angler Fish, (<i>Lophius piscatorius.</i>)

DECEMBER.

Captain Dalton, Royal Artillery	}	The Bill Fish, (<i>Esox osseus, Linn.</i>) from Lake Ontario.

1828.

JANUARY.

Mr. S. Henwood.....	Jaws of <i>Squalus carcharias.</i>
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MOLLUSCA. (CUVIER.)

1827.

OCTOBER.

Capt. O. V. Vernon.....	Various Specimens of the Tree Oyster, (<i>Ostrea parasitica.</i>)	
Mrs. M. Dixon.....	}	200 Foreign Shells, including <i>Tellina</i> <i>lingua felis</i> , <i>Cytherea erycina</i> , <i>Venus</i> <i>papilionacea</i> , <i>Bulla naucum</i> (var.) <i>Natica canrena</i> , <i>Murex haustellum</i> , <i>Turbinella cornigera</i> , <i>Cypræa ocel-</i> <i>lata</i> , <i>Conus virgo</i> , &c. &c.

NOVEMBER.

J. Bland, Esq.....	3 Foreign Shells.
Miss Backhouse.....	6 Species of British Shells.

DECEMBER.

- Mr. Davies 6 Shells.
 Rev. W. V. Vernon *Meleagrina margaritifera.*

CRUSTACEA.

1827.

APRIL.

- Leeds Lit. and Phil. Soc. } 2 Specimens of *Portunus pelagicus*, *Linn.*
 and one of *Gelasima Maracoani*, *Latr.*
 from Brazil.

OCTOBER.

- Hon. & Rev. H. Howard *Lithodes Squinado* from Worthing.

NOVEMBER.

- Mr. James Backhouse 2 Specimens of *Galathea strigosa* from
 Scarborough.

ARACHNIDA.

1827.

FEBRUARY.

- Rev. C. Wellbeloved 2 specimens of *Scorpio afer.*

NOVEMBER.

- Mr. Bewlay *Aranea Diadema.*

MYRIAPODA.

OCTOBER.

- Capt. O. V. Vernon 3 Centipedes (*Scolopendra morsitans*)
 An *Iulus.*

INSECTA.

1827.

APRIL.

- Mr. J. Phillips..... 3 specimens of *Typhœus vulgaris*.
 Mr. H. Denny..... Pair of *Omaseus aterrimus*.

JULY.

- | | | |
|------------------------|---|--|
| Rev. James Dalton..... | } | 1544 British Insects, viz. (according to the Linnæan orders) |
| | | 1415 Coleoptera |
| | | 22 Hemiptera |
| | | 8 Lepidoptera |
| | | 2 Neuroptera |
| | | 91 Hymenoptera |
| | | 6 Diptera. |

OCTOBER.

- Mr. Edward Rigge..... *Libellula depressa*, m. & f.
 Capt. O. V. Vernon..... 9 Foreign Insects, including *Scarabæus Actæon*, *Buprestis gigas*, &c.
 Mr. Thomas Allis..... *Urocerus Juvencus*, f.

NOVEMBER.

- Capt. O. V. Vernon..... 5 foreign Insects.
 Mr. J. Phillips..... 58 British Insects, including *Brephanotha* and *Coccinella ocellata*.
 Mr. W. C. Hewitson..... 3 foreign Beetles.

ANNULOSA & VERMES.

1827.

FEBRUARY.

- W. Wright, Esq..... *Ascaris Equi*.

Mr. A. Coates..... 2 *Tæniæ*.

MARCH.

Mr. T. Backhouse..... 6 specimens of *Amphitrite auricoma*.

RADIARIA, (LAMARCK.)

JULY.

Mr. R. Ripley..... 3 *Echinida*.

Mr. J. Phillips..... *Echinus esculentus*.

J. Bland, Esq..... *Echinus esculentus*.

OCTOBER.

Capt. O. V. Vernon..... *Scutella sexforis*.

DECEMBER.

Mr. Robert Davies..... *Echinus*, from the West Indies.

ZOOPHYTA.

1827.

FEBRUARY.

Miss H. H. Roddam..... 34 *Corallines* from the Yorkshire coast.

OCTOBER.

Capt. O. V. Vernon..... { 20 *Corals* from the West Indies, including *Meandrinæ*, *Madreporæ*, *Astrææ*, *Oculinæ*, and *Milleporæ*.

ANTIQUITIES.

I. COINS AND MEDALS.

1827.

FEBRUARY.

- | | | |
|--|---|---|
| Rev. J. Serjeantson (<i>by the Rev. W. H. Dixon</i>) | } | 5 Roman Coins, <i>æ. mag.</i> |
| Mr. W. Gray, jun..... | } | 7 Medals in bronze.
M. Aurelius, <i>æ.</i> |

APRIL.

- | | | |
|-------------------------|---|---------------------------|
| Rev. W. H. Dixon..... | } | Edward I. <i>silver.</i> |
| Rev. Archdeacon Eyre... | } | Elizabeth, <i>silver.</i> |

OCTOBER.

- | | | |
|---|---|--|
| Miss Pierse
(<i>by W. Salmond, Esq.</i>) | } | 11 Medals. Jewish Shekel. Legend in Chaldæan letters. Otho, <i>æ. mag.</i>
Augustus, <i>æ. mag.</i> 47 other coins.
2 half Dies. |
|---|---|--|

NOVEMBER.

- | | | |
|--|---|--|
| Mr. Turner (Whitby).... | } | 2 Arracan Rupees. |
| John Bland, Esq..... | } | 8 Netherland Coins, 1818—1827.
3 Prussian Coins, 1826. Manks Penny. Gibraltar token. |
| A Lady (<i>by the Rev. C. Wellbeloved</i>) | } | 4 Roman Coins, <i>arg.</i> Medal of Maria Theresa, <i>silver.</i> 5 Foreign modern Coins, <i>silver.</i> |
| Mr. J. Bleckly..... | } | Coin of Archbishop Vigmund, found under the rampart adjoining Mickle-gate Bar. |

Rev. W. V. Vernon..... } 3 Roman Coins, *æ. min.* Styca of
Aethelred. 4 English Coins, *silver.*
3 Nuremberg counters.

1828.

JANUARY.

Rev. W. V. Vernon..... } Vespasianus, *æ. mag.* 5 Roman Coins,
æ. min. 15 English and other coins.
10 Nuremberg and other counters,
dug up in the Minster Yard.

M. R. Ripley..... Coin of Ptolemy Soter, *æ.* 3 Roman
Coins, *æ. min.*

II. MISCELLANEOUS ANTIQUITIES.

Rev. J. Graham..... Silver Bodkin, found in the excavations
of the Manor Shore.

Lieut. Gen. Sharpe (*by* }
W. Marshall, Esq.) } A Celt.

Rev. W. V. Vernon..... An antique brass Ring, found in the
Minster Yard.

Mr. Davies..... 3 Deeds, of the 12th & 13th centuries.

Dr. Hull..... } A large Sepulchral Urn, with bones
and bracelets, found in a tumulus
near Bishop-Burton.

John Bland, Esq..... A Roman Fibula, found near Brough,
Westmoreland.

DONATIONS TO THE LIBRARY.

1827.

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| Mr. Copsie..... | Howell's History of London, 4to. 1650. | |
| H. Atcheson, Esq..... | Linnæan Transactions, vol. 10 & 11, 4to. | |
| Dr. Goldie..... | Burmanni Flora Indica, 4to.
Charas on Vipers, 12mo. | |
| Mr. J. Phillips..... | Appendix to Lister's <i>Historia Animalium Angliæ</i> , 4to. | |
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| Mr. J. Browne,
(the Author) | } | Attempt to ascertain the age of the
Porch of St. Margaret's Church,
York, 4to. |

MARCH.

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|-------------------------------|---|---|
| Mr. H. Denny,
(the Author) | } | Monographia <i>Pselaphidarum et Scyd-
mænidarum Britannicæ</i> , 8vo. |
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APRIL.

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| Sheffield Lit. and Phil. Soc. | Reports of the Society for 1825 & 1826,
8vo. |
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JULY.

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|--|---|--|
| David Brewster, L.L.D.
(the Author) | } | Thermometrical Observations at Leith
Fort, 4to. |
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- R. I. Murchison, Esq. } Memoir on the Coal-field of Brora in
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- Rev. W. Lund..... Listeri Exercitatio Altera, &c. 8vo.
- Whitby Lit. and Phil. Soc. Fourth Annual Report of the Society.
- Late Mr. Constable..... Constable's Miscellany, 6 vols. 12mo.
- Rev. Joseph Hunter..... Annual Report of the Bath Institution.

OCTOBER.

- Messrs. J. & G. Todd... } Fox's Description of the Newcastle
 Museum, 8vo.
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- Mr. Wolstenholme..... } Spallanzani's Tracts on Natural History,
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- Mr. Adamson (the Author) Memoirs of Camoens, 2 vols. 8vo.
- Antiquarian Soc. Newcastle Archæologia Æliana, vol ii. part 1.
- Leeds Lit. and Phil. Soc. Report of the Society for 1826.

NOVEMBER.

- Dr. Beckwith..... Ray's Travels, 8vo. 1637.
- John Dalton, Esq. } Chemical Philosophy, vol. ii. part 1.
 (the Author) }
- John Bland, Esq..... } Merrey on the Coinage of England, 8vo.
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- Bristol Institution..... Fourth Annual Report.

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Philosophical Transactions for 1827, parts 1 & 2.

Transactions of the Geological Society, vol. II. part 2.

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 Woodward, Samuel, *Norwich.*
 Worsley, Rev. Thomas, F.C.P.S. *Downing College, Cambridge.*
 Wrangham, Rev. Archdeacon, F.R.S. &c. *Hunmanby.*
- Young, Rev. George, M.W.S. *Whitby.*

FOREIGN HONORARY MEMBERS.

- M. Adolphe Brongniart, *Paris.*
 M. J. A. De Luc, *Geneva.*
 John Griscom, *Professor of Chemistry at New York.*
 Baron Alexander Von Humboldt, *Berlin.*
 William Meade, M.D. *Philadelphia.*
 M. L. A. Necker, *Professor of Mineralogy, Geneva.*
 M. Soret, *Geneva.*
 Count Sternberg, *Prague.*

Presented
 13 MAR 1886

~~3-A~~
Berkshire Philosophical Society.

ANNUAL REPORT

FOR

MDCCCXXVIII.



ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society

FOR

MDCCCXXVIII.



YORK :

PRINTED BY W. ALEXANDER AND SON, CASTLEGATE.

1829.

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TRUSTEES

OF THE

Dorsetshire Philosophical Society.

HIS GRACE THE ARCHBISHOP OF YORK
EARL OF CARLISLE

VISCOUNT MILTON, F.R.S. F.S.A.

LORD GRANTHAM

HON. AND REV. HENRY E. J. HOWARD

FRANCIS CHOLMELEY, ESQ.

ROBERT DENISON, ESQ.

WILLIAM MARSHALL, ESQ. F.G.S.

EUSTACHIUS STRICKLAND, ESQ.

RICHARD J. THOMPSON, ESQ.

REV. W. V. VERNON, F.R.S.

WILLIAM WRIGHT, ESQ.

PATRONS OF THE SOCIETY.

HIS GRACE THE ARCHBISHOP OF YORK
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EARL OF TYRCONNEL, F.G.S.
VISCOUNT MORPETH
VISCOUNT MILTON, F.R.S. F.S.A.
LORD STOURTON
LORD WHARNCLIFFE
LORD MACDONALD.

OFFICERS AND COUNCIL, M.DCCC.XXIX.

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VICE-PRESIDENTS :

PHILIP DAVIES COOKE, F.G.S.

REV. ROBERT CROFT

WILLIAM ROOKES CROMPTON

FRANCIS OFFLEY EDMONDS

HON. CHARLES LANGDALE

WILLIAM CONSTABLE MAXWELL

REV. D. R. CURREN

WILLIAM DANBY

HON. AND REV. H. HOWARD

HON. W. S. LASCELLES

HENRY PRESTON

WILLIAM SALMOND, F.G.S.

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 EUSTACHIUS STRICKLAND.

 TREASURER:

JONATHAN GRAY.

SECRETARIES:

GEORGE GOLDIE, M.D.
 WILLIAM WRIGHT
 WILLIAM GRAY, JUN.

CORRESPONDING SECRETARY:

REV. HENRY ATCHESON, F.C.P.S.

C U R A T O R S :

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W. MARSHALL, F.G.S...	MINERALOGY.
JAMES ATKINSON.....	COMPARATIVE ANATOMY.
REV. J. B. GRAHAM....	ORNITHOLOGY.
THOMAS BACKHOUSE....	ENTOMOLOGY.
REV. W. HINCKS, F.L.S.	BOTANY.
REV. C. WELLBELOVED..	ANTIQUITIES AND COINS.
EUST. STRICKLAND.....	LIBRARY.

KEEPER OF THE MUSEUM :

JOHN PHILLIPS, F.G.S.

CHAIRMAN OF THE BUILDING COMMITTEE:

REV. W. V. VERNON, F.R.S.

SECRETARY:

WILLIAM WRIGHT.

ABSTRACT OF THE LAWS
OF THE SOCIETY,

RELATING TO THE PRIVILEGES AND PAYMENTS OF MEMBERS.

The Property of the Society is vested in the Subscribing Members collectively. Every Subscribing Member has a right to attend and vote at the Meetings of the Society, and is eligible to all its offices. He has access to the Museum and Library, and the privilege of taking out or sending for Books, and of introducing Visitors. In the new Institution, he will also have access to the Botanic Garden ; and (by a Law passed at the Annual Meeting, 3rd of February, 1829,) the privilege of frequenting the Gardens is extended to the adult members of his family residing under his roof.

A new Member may be balloted for at any one of the General Meetings of the Society, which are held on the first Tuesdays of January, February, March, April, July, October, November, and December. His recommendation, signed by three Subscribing Members, must be hung up in the Library, a week previous to the ballot.

Each Member, on his admission, pays to the Treasurer FIVE POUNDS ; and on every first day of January following, an Annual Subscription of Two POUNDS, if resident within the County ; or if permanently residing out of the County, an Annual Subscription of ONE POUND. A Member may compound at any time for his Annual Subscriptions, by a payment of TWENTY POUNDS.

Honorary Members have the same privileges as Subscribing Members, except the power of voting and eligibility to offices. Those assigned to Contributors to the Building Fund, *not* being Members of the Society, will be found at page 32.

REPORT

PRESENTED TO THE ANNUAL MEETING,

FEBRUARY 2ND. 1829.

THE COUNCIL have the satisfaction of presenting to the Annual Meeting, the GRANT FROM THE CROWN of three acres of land, situated within the ancient precincts of the Monastery of St. Mary, and including the remains of the Abbey Church. The ground is assigned to Trustees for the use of the Society, on condition that it shall be applied partly to the maintenance of a botanic garden, and partly as a site for buildings appropriated to the purposes of science. The sign manual was first obtained soon after the last Annual Meeting; but the legal advisers of the Society having stated an objection to the form of the grant, it was engrossed anew, and received the royal signature a second time. The Council advert to this circumstance, for the purpose of remarking the enlightened attention which is paid by the Government of this country to the interests of science; an attention strikingly displayed in the uniform indulgence with which the applications of this Society have

been favoured, from first to last, through a succession of four administrations.

But the patronage which the Government so readily extends to scientific objects, would be of little avail, if those objects were regarded with indifference by the public. It is therefore a source of no less gratification to the Council, that they have a satisfactory account to render of the **SUBSCRIPTIONS TO THE YORKSHIRE MUSEUM**, which have increased, since their last report, to an amount little short of the expectations they then ventured to express.

The value of philosophical research is beginning to be more generally appreciated ; and in whatever part of Great Britain public spirit exists to any considerable extent, there institutions are rising for the advancement of natural knowledge. The more than common prevalence of such a spirit in this County, is one of its proudest distinctions ; and when a scientific Institution for Yorkshire was projected, those who were entrusted with the superintendence of the undertaking, did not hesitate to count upon a degree of support, which in a less liberal and less wealthy district they would have had no reason to expect.

These anticipations have not been disappointed. In the report made in February 1828, the expense of the work was estimated at £8000 ; and the amount of subscriptions at the present moment is £7665. Thus the call of the Society has been answered in a manner of which a Yorkshireman has no

reason to be ashamed, and which has not failed to excite the admiration of visitors from other parts of the kingdom.

There may be some, perhaps, who may regard the success of this appeal to the public with different feelings, and, in order to place it in an invidious light, may say that the sum which has been thus collected, might have been bestowed upon more useful objects. But it may be doubted whether they who would thus damp the zeal of the friends of science, have sufficiently weighed the real value of those pursuits, which they place so low in the scale of utility. If all the aids which human life has derived from philosophical speculation were to be lost, it would then be universally agreed, that the most useful of public institutions would be that which should have a tendency to replace them. Withdraw from the sailor the gifts which astronomy, and optics, and mechanical science have bestowed upon his perilous occupation; take away his chronometer, his telescope, and his quadrant; and you would make no amends to him for the security of which he has been divested, if you should even found a hospital for his reception. Deprive the miner of the safeguard by which experimental chemistry has of late years provided for his preservation; and the explosive atmosphere through which he now passes uninjured, will resume its destructive force, and leave no doubt of the utility of the science by which the blasts of death have been disarmed.

The effect which the abstract meditations of philosophy have had upon the business and fortunes of mankind, is

indeed great beyond all calculation. It was the THEORY of the true figure of the earth, which first led the discoverer of a new world across the Atlantic, and conducted the sails of commerce round the globe. It was the refined investigation of the subtle nature and properties of heat, which put in motion the gigantic powers of steam; and, in its consequences, has not only exalted this country to an unprecedented pitch of prosperity and greatness, but has changed in every quarter of the world the whole face of human affairs.

There is not one, among the various sciences cultivated by this Society, which is not directly applicable to the USES OF LIFE. From mechanical inventions, and the discoveries of the philosophical chemist, the greatest improvements in all our manufacturing processes have been derived. The knowledge of the structure of the earth, and of the properties of minerals and plants, is closely connected with the arts of agriculture and mining, of metallurgy and medicine; and the studies of the comparative structure, organization, and general economy of animated nature, have thrown light on those dark subjects of physiological enquiry, upon the development of which the perfection of the art of healing depends.

But it would be to take a very narrow view of the utility of these pursuits, to contemplate them only in their direct effects. The INTELLECTUAL qualities which are formed by such studies, even when they appear the least obviously useful, are often productive of unexpected fruits. To a mind educated in the school of natural history, and exercised in minute and accurate observation, mankind are indebted for

the most extensively beneficial of all the discoveries of the present age. The same habits of thought, which at one time were employed in watching the instincts of the cuckoo,¹ at another, seized upon the preventive power of vaccination, and introduced into the world a practice by which the lives of millions have been saved.

Of still higher importance than any thing which has yet been mentioned, is the MORAL effect which arises from investigating the laws and meditating upon the works of nature. To trace the hand of creative wisdom, whether manifested in its sublimest operations, or in the most minute contrivances for the smallest objects of its care, has a tendency, beyond all other occupations, to elevate the mind of man. And if improvement be the true standard of utility, what can be more improving, and therefore what more useful, than those studies which have furnished such various and striking illustrations of the most momentous of ALL truths? Associated together with undivided sentiments, in contemplating subjects at once so edifying and attractive, we meet one another in an instructive and harmonious intercourse; and science, with a secret moral charm, allays the animosity of parties, and pours a friendly feeling over the most discordant minds.

Impressed with these considerations, the Council have not scrupled to urge the claims of the Institution as strongly as

¹ See the Memoir—"On the natural history of the cuckoo, by Mr. Edward Jenner?" Phil. Transactions, (1788,) vol 78, p. 219.—or, Phil. Trans. abridged by Hutton, &c. vol. 16, p. 432.

they could upon the public attention ; and they see, with unmingled satisfaction, the liberal contributions which have raised a structure, such, both in accommodation and appearance, as fulfils all the wishes of the Society.

The Edifice is worthy of the high reputation of its Architect, and offers a correct and well executed specimen of the purest taste of classical antiquity. But the Meeting will not be of opinion that too great a sacrifice has been made to ornament, when it is informed that this spacious structure has been erected for a sum which, it appears from the minutes of the Committee, will not exceed £6400. If it be considered that the building comprises eight principal apartments to contain the Society's various collections, ten rooms for other purposes, and a hall for lectures of finished architectural character, no one will be disposed to question the economy and success with which this work has been conducted.

Of the remaining expenditure, *exterior* to the Museum, the amount has proved to be about £2100 ; half of that sum being on account of the entrance lodge, the out buildings, and the boundary walls. Of the other half, £600 have been expended on the levelling and laying out of the garden, on the repairs of the ruins, and on the excavations by which the foundations of the Abbey have been traced ; whilst the remainder (£430) includes the payments required to satisfy the claims of the former occupiers of the ground, and to defray the advertisements and presswork, the legal and other miscellaneous expenses.

The total sum, therefore, which has been laid out by the Committee, is £8500, of which about £300 may be considered as balanced by the value of two hundred copies of the publication on St. Mary's Abbey, placed at the disposal of the Council by the Society of Antiquaries. Thus the expenditure has exceeded by £200 the sum at which the execution of the whole undertaking was estimated in the last Report. And though the work is in other respects essentially complete, no provision has been made for fitting up the interior of the Museum with Cases, for the reception of the Society's extensive collections. The error of the estimate, however, will not appear considerable, when it is recollected that to the usual causes which operate in carrying the expense of such undertakings beyond the calculation, there is to be added, in this instance, the variety of objects which were to be accomplished, and the extent and peculiar character of the ground which was to be enclosed, and excavated, and brought into use.

The actual deficiency of the subscriptions is between five and six hundred pounds; and to raise this sum, and to procure the means of fitting up the Museum, an application has recently been made to the public. It is true that a small additional donation from each member of the Society, would relieve the Institution from embarrassment; and it will be observed with pleasure by the Meeting, that the name of one of its most distinguished Patrons¹ stands again at the head of a list of Subscribers, who have come forward since the

¹ The Archbishop of York.

commencement of the present year, with a second donation. But the Council have not thought it right, after the advance which has lately been agreed to in the annual subscription, to call upon the members specifically for a further contribution.

The necessity which existed for increasing the ANNUAL INCOME, is sufficiently shown by the report of the Treasurer for the past year ; for although the Meeting will perceive that the balance against the Society is again reduced, so as to amount at present only to an inconsiderable sum, this reduction has been effected as before, out of the fluctuating fund which arises from the entrance of new members, without which the Society's debt, instead of being lessened, would have been augmented to £75. It appears that the increased rate of subscription has not diminished the number of admissions, which have been more in the last than in the preceding year ; and there is every reason to expect that the position which the Society now occupies, and the advantages which it offers, will continue to multiply its numbers. The Council cannot quit this subject, without noticing the liberal manner in which one¹ of the Patrons of the Society has expressed his opinion upon it, by paying the arrears of his subscription for three years, according to the present rate ; nor can they refrain from congratulating the Meeting upon the adoption of a measure which will have fully ensured the efficiency of the Institution, if the contributions solicited for the Building Fund should prove sufficient to leave the annual income unimpaired.

¹ The Earl of Tyrconnel.

It may now be expected that the Society will derive profit from a source, which the want of convenient accommodation has formerly rendered unproductive. In the beautiful LECTURE-ROOM of the new Museum, very complete provision has been made for lighting, ventilation, and warmth ; and it is conceived that an able lecturer will collect a crowded audience. The Council have engaged the Keeper of the Museum to deliver, in the month of July, eight lectures on the animals which inhabit the waters in this neighbourhood ; a subject, the novelty of which will give additional interest to its illustration.

The Society's collections will be removed to their new repository at an earlier period. It is intended to lay down the floors of the Museum in March, and to occupy the premises in May. Thus, by the exertions of the Committee, the work will have been finished within the period proposed. There was indeed no time to be lost : every corner of the Society's present apartments is filled with cases and drawers, and every drawer and case is crowded with specimens ; nor has the number of donations diminished, which have continued to be received at every meeting ; so that in a short time these accessions must either have been declined, or subjected to injury and confusion.

The GEOLOGICAL specimens contributed in the last twelve-month, have amounted to 1380 ; and among these there have been many of more than ordinary value. The oolitic fossils from Switzerland, presented by Professor Necker, with those

brought from Egypt¹ and from America,² have furnished instructive testimonies to the theory of general formations. The British strata have been further illustrated by some beautiful specimens of crinoïdal remains from Gloucestershire,³ and of fossil fishes from Swanwich⁴ and Barrow.⁵ A very interesting collection, also, of the fossil fishes discovered in Caithness by Professor Sedgwick and Mr. Murchison, has been received from an honorary member⁶ whose bountiful contributions have been acknowledged in every report ; and a suite of fossils from Sutherland, presented by Mr. Murchison himself, has enabled the Keeper of the Museum to institute a comparison with the fossils of the corresponding strata on the Yorkshire coast, which proves a still closer conformity than had been before observed.

The collections of the Institution have supplied many valuable materials to the work which this meritorious officer of the Society is now publishing, on the Geology of the Eastern part of this County,⁷ a work which, the Council have reason to hope, will complete whatever may have been left wanting by the valuable labours of his predecessors in the same field. The richest part of the Museum is, as it ought to be, that which contains the Yorkshire specimens ; and it

¹ By J. S. Crompton, Esq.

² By S. Stapylton, Esq.

³ By the Rev. R. Halifax.

⁴ By Miss Atkinson.

⁵ By the Rev. T. King.

⁶ Henry Witham, Esq. F.G.S.

⁷ " Illustrations of the Geology of Yorkshire ; or a Description of the Strata and Organic Remains of the Yorkshire Coast, accompanied by a Map, Sections, and numerous Plates of fossil plants and animals ; by John Phillips, F.G.S."—
1 vol. 4to.

is to be regretted that the additions to it have not been more numerous. Some useful accessions have been received from Cleveland¹, from Whitby², and from Ferrybridge³; but, extended as the Society now is, and numerous as are the fossils which might be procured in all parts of the county, the supply would doubtless have been greater, were the members aware how much is still wanting to complete the excellence of this part of the Museum.

The Council cannot conclude their account of the geological donations, without acknowledging the liberality of the Bristol Institution, and of the Geological Society of London, in allowing casts to be taken from some of the most remarkable organic remains in their possession. Casts have also been promised, of the fossil bones of Montmartre, by M. Cuvier, and of a highly valuable *saurian* specimen, by Mr. Chantrey.

In MINERALOGY, the Museum has continued to receive the assistance of some liberal friends. The addition of the greatest amount is that which has been made to the North American collection⁴: the most remarkable individual minerals presented are the Gaylussite from Lagunilla,⁵ and the Chlorophæite, found near Felton in Northumberland, filling cavities in the basaltic dyke.⁶ An undescribed aluminous mineral in the Society's possession has been analysed,

¹ Presented by the Rev. Archdeacon Vernon.

² By Mr. Ripley, Sec. Whitby Lit. and Phil. Soc. ³ By the Rev. W. Richardson.

⁴ By Stapylton Stapylton, Esq.

⁵ Presented by Charles Empson, Esq. ⁶ By Wm. Hutton, Esq. F.G.S.

and its composition determined;¹ and the calamine of Malham has been chemically examined, and found to contain a portion of cadmium.²

The lists of ZOOLOGICAL donations exhibit an increase beyond any former year in the number of Birds, a large proportion of which were procured in North America by the same donor,³ whose travels have enriched so many other parts of the Museum. Some valuable additions have been made to the foreign Insects, whilst there have been so many accessions to the catalogue of native Shells, as leaves room to hope that before long an instructive arrangement of the British mollusca may be accomplished.

Such an arrangement of the BOTANICAL collections has been commenced, by incorporating together the extensive herbariums presented in 1827, classifying them according to the most improved modification of the natural system adopted in the great work of De Candolle, and accompanying the specimens with illustrative remarks. The Curator⁴ has presented a fasciculus containing the first order complete, as a specimen of the method which he has pursued. Among the donations to this department in the last year, is an extensive series of North American plants:⁵ a foundation has also been laid, by a present of rare seeds and nuts⁶, for

¹, ² By the President of the Society.

³ S. Stapylton, Esq.

⁴ The Rev. W. Hincks, F.L.S.

⁵ Presented by S. Stapylton, Esq.

⁶ From the Rev. W. Hincks.

a collection in an important branch of botanical science, to which those who visit distant countries would find it easy to contribute. Contributions of a still more material kind are to be looked for in the ensuing year. Great exertions have been used to prepare the GARDEN of the Institution for immediate use. No labour has been spared in forming the ground, which, when first opened, appeared to be nothing but a widely extended heap of rubbish and fragments of stone, but which now promises to furnish, on this picturesque and interesting site, a proper soil and space sufficient for the most essential objects of the Botanist ; and the Council trust that they may rely upon the liberality of those who are attached to such pursuits, to save the Society much of the expense which is still required to stock the garden with plants.

With these operations has been conjoined a constant attention to the object of exploring the REMNANTS OF THE ANCIENT ABBEY, with which the ground was every where intersected ; and so successfully have its foundations been traced, that the Antiquary may now not only form an idea of the extent, arrangement, and magnificence of this great establishment, but, by comparing its plan with that of other religious houses, of which similar remains have been found, may gain some insight into the general system of monastic architecture.

The progress of the excavations has placed in the Society's possession many additional relics of the taste and skill with which the structure has been decorated. The tracery of

several compartments in the remaining aisle has been recovered, and in part replaced ; and very recently there have been found, deposited together under the foundation of a wall, seven statues of the size of life, elaborately sculptured, and so well preserved, that the colours and gilding of the drapery may still be seen. At the moment of this interesting discovery, the Committee found themselves compelled, by the state of their funds, to desist from prosecuting these researches any further. The foundations of the Monastery, however, have been completely explored over the entire extent of the Society's ground, and beyond it, wherever it was practicable to follow them ; and an accurate plan of the whole has been transmitted for publication to the Society of Antiquaries, at whose request a descriptive memoir on the subject has been drawn up by the Curator of Antiquities¹ of this Institution. In addition to the plan, general views of the ruins, and drawings of the sculptures and other architectural details, have been furnished by the pencil of Mr. Nash ; and the work is so far completed, that it may be expected in the course of a month to be ready for delivery. As the expense of the excavations is to be in part defrayed out of the proceeds of this publication, the sale of it cannot be deferred ; and it is necessary that those members of the Society who wish to avail themselves of the advantageous terms on which it is in the first place offered to them, should not delay their application to the Secretaries.

The researches on the site of the Abbey, and the liberality of contributors, have added many COINS to the Society's cabinet,

¹ The Rev. C. Wellbeloved.

and several valuable donations, belonging to other subjects of ANTIQUARIAN interest, have been presented. Among the most curious of these are the brass symbol of Isis¹ found at Aldborough, the ancient Isurium; the arrow-heads of obsidian, used by the native Indians before the conquest of Mexico, and the images in baked earth from the ancient pyramids and temples of Otumba.²

The Council have the satisfaction of again reporting, that there have been numerous benefactions to the LIBRARY. The Curator,³ by a well directed liberality, has himself added to it many useful books of scientific reference. The Royal Society of Edinburgh, and the Society of Arts, have presented copies of their valuable Transactions, the Royal Asiatic Society, and the Literary and Antiquarian Society of Perth, have conferred a similar obligation. But among the many valuable works which distinguish this list of donations, there is one composed by a resident member of the Society⁴, which particularly deserves the notice of the Meeting. Too little attention has hitherto been paid in this country to the means of communicating the advantages of education to the blind, especially in scientific attainments; and in the work now alluded to, a successful attempt has been made to supply part of that defect, by publishing the diagrams of Euclid in a *tangible* form.

To the author of this book the Meetings have been indebted for many COMMUNICATIONS, in which scientific

¹ Presented by Dr. Murray.

² Presented by Capt. Colquhoun.

³ Eust. Strickland, Esq.

⁴ The Rev. W. Taylor.

ingenuity has been applied to practical objects ; and if an instance were wanted of the usefulness of philosophical enquiries, such an instance might be taken from the most recent of these communications, in which it has been shown, that by a very simple alteration in the usual methods of lighting houses by gas, the power of illumination may be doubled from the same supply. The Meeting will also duly appreciate the scientific zeal which has induced some of the members to unite, for the purpose of assisting the Royal Society of Edinburgh with materials for instituting a comparison between the states of the atmosphere in different places at the same time. The observations have been made in the open air, not only in summer but in the severest season of winter, for every hour of the day and night, and have been conducted with great care and precision. Papers and correspondence of increased variety and interest, as well on subjects of antiquarian enquiry as of natural history and experimental research¹, have been read at the monthly meetings. But of all the communications with which the Society has been favoured, that which it was most gratifying to receive, was the account of hieroglyphical inscriptions deciphered by one of the Secretaries² of the Leeds Philosophical Society ; since, independently of the high degree of interest attached to an illustration of the greatest literary discovery that ever has been made, such a contribution strongly shows the cordiality with which the members of the scientific Institutions in different parts of

¹ See the List of Communications, page 33.

² William Osburn, Esq. F.R.S.L.

Yorkshire, are disposed to unite in prosecuting their common objects; objects which may be in many respects materially advanced by mutual aid and friendly cooperation.¹

Having thus given a general view of the proceedings and progress of the Society, and having laid before the meeting a full and explicit statement of its pecuniary affairs, the Council, in concluding, must express their conviction, that the success and the character of the Institution justify the expense of the arrangements which have been made for its accommodation; and that its future prospects would have been injured, if the general design had been narrower, or its execution less perfect. They venture to hope that the public favour which has prospered it so far, will be so much further extended, as not to leave it in an embarrassed condition; and they trust, when the Annual Meeting assembles again within the walls of the NEW MUSEUM, it will be in their power to congratulate the Society on the enjoyment of all the advantages which it has acquired, unincumbered and complete.

¹ In addition to Mr. Phillips's Lectures, announced in page 18, a liberal offer was made on the day of the Annual Meeting, by E. S. George, Esq. F.L.S. Curator of the Leeds Phil. and Lit. Society, to deliver a course of four experimental lectures on some of the most interesting subjects of Chemical Science; the proceeds of the course to be applied to the establishment of the Society's laboratory. These lectures will be given during the Autumn, in the Theatre of the New Museum.

THE TREASURER'S ACCOUNT FOR 1828.

<i>Dr.</i>	<i>£. s. d.</i>	<i>Cr.</i>	<i>£. s. d.</i>
Received Admission money for 19 new members	95 0 0	Balance due to the Treasurer at the close of 1827	84 16 11
Received arrears of ditto from 5 members	25 0 0	Purchase and preparation of Specimens	16 19 6
Received Annual Subscriptions for 1828, from 157 members	157 0 0	Books and binding	47 16 2
Received arrears of ditto from 3 members	4 0 0	Printing and advertising	62 4 0
Received the Subscription and arrears of the Earl of Tyrconnel, at the advanced rate of £2 per annum	6 0 0	Stationery	6 10 0
Received Composition for Annual Subscriptions from one member	20 0 0	Cases and Furniture	21 6 6
Balance due to the Treasurer at the close of 1828	91 7 9	Rent, Salaries, and Wages :	
	<hr/>	Rent of the Society's Rooms	£36 15 0
	£398 7 9	Rent of part of the Manor Shore	2 0 0
		Keeper of the Museum	60 0 0
		Servant	20 0 0
		Law expenses relating to the ground	7 9 10
		Incidents	32 9 10
			<hr/>
			£398 7 9

Balance due to the Treasurer on the above Account.....£91 7 9
 Deduct arrears of Subscription and Admission money still due by Members 64 0 0
 Balance against the Society.....£27 7 9

JONA. GRAY, TREASURER.

YORKSHIRE MUSEUM.

SUBSCRIPTIONS TO THE BUILDING FUND,

FROM THE COMMENCEMENT OF THE UNDERTAKING TO DECEMBER 31st. 1828.

	£.	s.		£.	s.
His Grace the Archbishop of York	100	0	Backhouse, Thomas, <i>York</i>	10	10
His Grace the Duke of Norfolk	50	0	Baines, H. J. <i>Bell Hall</i>	15	0
Earl Fitzwilliam	300	0	Barber, Cattle, and North, <i>York</i>	15	0
Earl of Egremont	100	0	Barnes, Rev. Theophilus, <i>Castleford</i>	5	0
Earl of Tyrconnel	21	0	Barstow, Thomas, <i>Naburn</i>	15	0
Viscount Morpeth	20	0	Bathurst, Rev. W. H. <i>Barwick</i>	10	10
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Stapylton, Martin, <i>Myton</i>	50	0	Wake, Baldwin, M. D. <i>York</i>	10	10
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Drawing and Description of a new compensation Balance-Wheel for a Watch, by the Rev. W. Taylor, Hon. Mem. Y.P.S.

Meteorological Register for every hour of the day and night, on the 15th of January, 1828 ; by several members of the Society.

MARCH 4th.—On the chemical composition of Lapis Lazuli, and the probable means of producing it artificially, by the Rev. W. V. Vernon, F.R.S. F.G.S. President Y.P.S.

Notice and transcript of an ancient inscription in Norwich Castle, by Samuel Woodward, Hon. Mem. Y.P.S.

APRIL 1st.—On the noises of Insects, and the means whereby they are produced, by John Phillips, F.G.S. Keeper of the Museum.

Drawing and description of the mould of a Celt, by S. Woodward, Hon. Mem. Y.P.S.

JULY 1st.—Notices of the Geology of Cleveland, by the Rev. Leveson V. Vernon.

OCT. 7th.—Notice respecting Cadmium in the Calamine of Malham, by the Rev. W. V. Vernon, F.R.S. &c.

On the natural history of *Urocerus juvenicus*, by John Phillips, F.G.S.

Meteorological Register for every hour of the day and night, on the 17th of July, 1828, by several members of the Society.

NOV. 4th.—On the Geology of the vicinity of Ferrybridge, by John Phillips, F.G.S.¹

Drawing and description of a peculiar method of generating curves, by the Rev. W. Taylor, Hon. Mem. Y.P.S.

DEC. 2nd.—On the attempts which have been made to decipher the characters found among the ruins of Persepolis, by the Rev. John Kenrick.

New experiments on the combustion of Coal-gas, by the Rev. W. Taylor, Hon. Mem. Y.P.S.

JAN. 6th, 1829—On the chemical composition of a new mineral from the neighbourhood of Scarborough, by the Rev. W. V. Vernon, F.R.S. &c.²

¹ See *Phil. Mag. and Annals*, *December*, 1828.

² See *Phil. Mag. and Annals*, *March*, 1829.

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1828.

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- W. Hutton, Esq. *Newcastle* 17 minerals from various localities, including chlorophæite, boracite, &c.
- R. I. Murchison, Esq,
For. Sec. G. S. } Mesotype from Talisker in Skye.
- H. Witham, Esq..... 10 specimens of red zeolite, from Kilpatrick, on the Clyde.
- Rev. G. R. Leathes, *Shrop-* } Polished specimens of striped jasper,
ham Hall, Norfolk } and phosphate of manganese.
- Capt. Colquhoun..... 15 specimens of obsidian, from Real del Monte, Mexico.

JULY.

- Charles Empson, Esq.
Newcastle. } Gaylussite from South America.
- Henry Wickham, Esq.... } Specimen from the gold mines of
Macugnaga at the foot of Monte
Rosa.
- Mr. Wilkinson..... Agate from Canada.

Mr. S. Woodward..... Magnetic iron sand, from Hunstanton
Cliff, Norfolk.

OCTOBER.

W. Danby, Esq..... Epidote, and sulphate of strontian.
John Bland, Esq..... 16 minerals from various localities.
P. Sandoz, Esq..... Crystallized carbonate of lime, in
opaque six-sided prisms, &c.

NOVEMBER.

John Bland, Esq..... 3 minerals.
Rev. W. Hincks..... 24 minerals, including tabular quartz,
capped quartz, and retinasphalt.

DECEMBER.

Stapylton Stapylton, Esq.. } A collection of minerals from North
America, including tourmaline, bru-
cite, phosphate of lime, phosphate of
manganese, &c.

1829.

JANUARY.

John Bland, Esq..... 18 minerals from various localities.
W. J. Henwood, Esq..... Sulphuret of molybdenum, and stream
tin, from Cornwall.

GEOLOGY.

1828.

FEBRUARY.

- John Shaw, Esq. R. A... Granite from Hay Tor.
Mr. S. Woodward..... 20 fossils from the crag of Suffolk, and
the diluvium of Norfolk.
Rev. E. Stillingfleet..... Fossil wood.

APRIL.

- Mr. S. Woodward..... 28 fossils from the chalk of Norwich.
R. I. Murchison, Esq..... } 97 fossils from the crag of Suffolk, from
the green sand series in Sussex, and
various strata in Sutherland and other
parts of Scotland.

JULY.

- J. S. Crompton, Esq..... 83 rocks and fossils collected by him-
self, in Egypt and the Levant.
Rev. W. Richardson..... } 63 fossil plants and bones from the
vicinity of Ferrybridge; fossil shells
from Dudley, &c.
Rev. L. V. Vernon..... 22 additional specimens in illustration
of the geology of Cleveland.
Rev. R. B. Cooke..... Fossils, &c. from the eastern part of
Yorkshire.
Rev. H. Hodgkinson..... Fossil plants from Timsbury, Somerset.

Rev. T. King.....	Fossil fish from Barrow on Soar.
Rev. W. Hincks.....	Silicified wood from Lough Neagh.
Hon. E. R. Petre.....	} Specimens of <i>axinus obscurus</i> , from the magnesian limestone at Stapleton Park.
W. Wright, Esq.....		Pelvis of red deer, from the diluvial cliff at Speeton.
Rev. W. V. Vernon.....	12 specimens from the oolitic rocks at Stamford, Barnack, &c.
Mr. Rowntree.....	Fossil fern from Gristhorpe.
Mr. W. Holden.....	2 masses of fossil wood from the Isle of Portland.

OCTOBER.

John Bland, Esq.....	Specimens of <i>calamites decoratus</i> , from Whitehaven.
E. Gibson, Esq.....	Stalactites from Ægina.
Professor Necker.....	23 fossils from Switzerland.
Mr. H. Newmarch.....	Fossil plant, (<i>Sphænopteris artemi- siaefolia</i> , Sternberg,) from Newcastle.
W. Danby, Esq.....	46 rocks and fossils from Yorkshire, Herefordshire, Devonshire, &c.
H. Witham, Esq.....	72 lepidodendra, filicites, &c. from the Newcastle coal field.
Rev. R. Halifax.....	36 echinida, crinoïdea, ammonites, and other fossils, from Gloucestershire.
Mr. R. Ripley.....	11 fossils from the lias of Whitby, &c.
Rev. W. Richardson.....	7 fossil shells from the magnesian lime- stone near Ferrybridge.
Rev. S. Sharp.....	Alcyonite from Hertfordshire.
W. Wright, Esq.....	<i>Variolaria ficoïdes</i> , (Sternberg,) from the county of Durham.

- Anthony Thorpe, Esq. Spirifera Walcottii, and other fossils,
from the coast of Yorkshire.
- M. Gustave Wetzlar, } Fossil crustaceous animal, (of the genus
Heidelberg. } Palinurus ?) from Germany.
- Hon. Mrs. L. V. Vernon. 18 rock specimens, from the Polar
Regions.
- R. Cattle, Esq. Imitative mass of lias from Scarborough.

NOVEMBER.

- W. Danby, Esq. Two masses of gypsum from Seaton
Carew, Durham.
- T. Meynell, Esq. 1 smaller specimen of ditto.
- Rev. L. V. Vernon. 86 additional specimens to illustrate the
geology of Cleveland.
- Rev. W. Hincks. 44 fossils from Blackdown, Cork, &c.
- H. Witham, Esq. 66 additional specimens of rocks from
various localities in Scotland.

DECEMBER.

- Stapylton Stapylton, Esq. } 123 geological specimens from North
America, including spiriferæ, mille-
poræ, &c.
- Miss Atkinson. 8 specimens of fossil fish, &c. from
Swanwich Bay, Dorsetshire.
- P. Murray, M. D. 47 fossils from the chalk of Norwich
and Cambridgeshire.
- Rev. J. Graham. 7 fossils from Speeton.
- Rev. W. V. Vernon. Tubiporite ? from Terrington.

1829.

JANUARY.

- | | | |
|-------------------------|---|---|
| H. Witham, Esq..... | } | 22 fossil fishes from Caithness. |
| | | 54 additional specimens of the rocks of Scotland. |
| J. Bland, Esq..... | | 4 geological specimens. |
| W. J. Henwood, Esq..... | } | A series of the "Elvans" of Cornwall, and other specimens illustrative of the geology of that county. |
| W. Hutton, Esq..... | | Wood mineralized by iron. |
| H. Littledale, Esq..... | | 5 fossil shells from Craven. |

ZOOLOGY.

MAMMALIA.

1828.

FEBRUARY.

- Mr. Joseph Backhouse.... Deformed skull of a rabbit.
Capt. O. V. Vernon, R.N. A squirrel.

APRIL.

- Mr. W. C. Hewitson. Large bat, (*Vespertilio murinus.*)

JULY.

- P. W. Watson, Esq. Pole cat, (*Mustela putorius.*)

OCTOBER.

- Rev. James Dalton. Flying squirrel, (*Pteromys volucella.*)

DECEMBER.

- S. Stapylton, Esq. } 4 species of squirrel, (viz. *Sciurus*
cinereus, *S. striatus*, *S. hudsonius*,
S. niger) and a Lynx, from North
America.
W. S. Burn, M.D. 4 interesting osteological preparations.

BIRDS.

1828.

FEBRUARY.

- Mr. Joseph Backhouse.... Red headed smew, (*Mergus albella.*)
 Pair of rock larks, (*Alauda rupestris.*)
- Capt. O. V. Vernon, R. N. Flamingo, (*Phœnicopterus ruber.*)
 Pelican.
- W. J. Charlton, Esq..... Black cock and gray hen, (*Tetrao tetrix.*)
- Mr. W. Gray, jun..... Kestrel, (*Falco tinnunculus.*)
 Merlin, f. (*Falco æsalon.*)
- Rev. W. V. Vernon..... Plotus anHINGA, from Para.
- The Zoological Fund..... Skeleton and trachea of the wild swan.
 Rough-legged falcon, (*F. lagopus.*)

MARCH.

- The Zoological Fund..... Another rough-legged falcon.
- Mr. W. Gray, jun..... Merlin, m. (*Falco æsalon.*)

JULY.

- Mr. Ellison..... { Guillemot, (*Uria troile.*)
 Razor-bill, (*Alca torda.*)
 Puffin, (*Alca arctica.*)
 Red-legged crow, (*Corvus graculus.*)
- Mr. Joseph Backhouse.... Nest of the Tailor-bird.
- P. W. Watson, Esq..... Sheldrake, (*Anas tadorna.*)

OCTOBER.

- Capt. O. V. Vernon, R. N. Charadrius Jamaicensis, and two other
 foreign birds.

DECEMBER.

- | | | |
|--|---|---|
| Stapylton Stapylton, Esq.. | } | 27 birds from North America, viz. falco lagopus, f. cinerarius, strix bubo americanus, another owl, 2 species of heron, picus erythrocephalus, picus auratus, picus carolinæ ? oriolus phœnicus, another oriole, blue robin, scarlet tanager, sturnus ludovicianus, emberiza cyanea, a titmouse, loxia curvirostra, charadrius pluvialis, another plover, corvus cristatus, and great crested kingfisher. |
| Mr. Henry Meech,
by S. Stapylton, Esq.} | } | Curlew, wood duck, and bittern, from North America. |

1829.

JANUARY.

- | | |
|-----------------------|--|
| Mr. H. Chapman..... | Hooded crow, (<i>Corvus cornix.</i>) |
| Mr. W. Gray, jun..... | Curlew, (<i>Scolopax arquata.</i>)
Loxia curvirostra. |

REPTILES.

1828.

DECEMBER.

- | | |
|----------------------------|---|
| Stapylton Stapylton, Esq.. | Rattle-snake, (<i>Crotalus horridus.</i>) |
|----------------------------|---|

FISHES.

1828.

JULY.

- | | |
|-------------------------|---|
| C. Empson, Esq..... | Syngnathus hippocampus. |
| Mr. Whitwell, Naburn... | Sea lamprey, (<i>Petromyzon marinus.</i>) |

CRUSTACEA.

1828.

JULY.

C. Empson, Esq..... 2 specimens of the American king crab,
(*Limulus polyphemus.*)

DECEMBER.

Stapylton Stapylton, Esq.. } 2 larger specimens of the king crab,
and a very large lobster, (*Astacus*
marinus,) from America.

1829.

JANUARY.

Mr. W. Bean..... 2 Pea crabs, (*Pinnotheres pisum.*)

INSECTA.

1828.

FEBRUARY.

T. Meynell, jun. Esq. 30 foreign Insects.

JULY.

T. Meynell, jun. Esq. 62 foreign Insects.

Mr. H. Chapman..... 2 pairs of *Polyommatus argus.*

OCTOBER.

Zoological Fund..... *Limenitis camilla,* &c.

Mr. Robert Harrison..... *Hipparchia polydama.*

Mrs. W. V. Vernon..... *Libellula varia.*

W. Middleton, Esq. Specimens of *Urocerus juvenicus,* and of
the fir tree which they had perforated.

DECEMBER.

S. Stapylton, Esq. Insects from North America.

CIRRIPEDA.

1828.

JULY.

A. Strickland, Esq. Otion Cuvieri, and cinaras vittatus.

OCTOBER.

W. Danby, Esq. Anatifa lævis, and a. sulcata.

MOLLUSCA.

1828.

FEBRUARY.

Mr. F. J. Copsie 28 foreign shells.

JULY.

A. Strickland, Esq. } 10 species of British shells, viz. pholas
parva and ph. crispata, corbula inæ-
quivalvis, venus verrucosa, pectuncu-
lus pilosus, avicula hirundo, pecten
lineatus, pileopsis hungarica, paludina
vivipara, and bulla lignaria.

APRIL.

W. Wright, Esq. Anodon cygneus.

JULY.

John Bland, Esq. 4 species of foreign shells, including
pteroceas chiragra, and fusus morio.

- Dr. Goldie..... Wood perforated by *teredo navalis*.
- J. S. Crompton, Esq..... 2 marine shells from the sands of Upper Egypt.
- W. Danby, Esq..... } 31 species of British shells, viz. *lutraria elliptica*, *sanguinolaria vespertina*, *pholas lamellata*, *ph. papyracea*, *teredo navalis*, *tellina donacina*, *t. solidula*, *venerupis virginea*, *cytherea lincta*, *c. ovata*, *venus gallina*, *v. fasciata*, *cardium lævigatum*, (jun.) *mytilus polymorphus*, *pectunculus pilosus*, *avicula hirundo*, *pecten obsoletus*, *p. varius*, *anomia ephippium*, *a. undulata*, *pileopsis hungarica*, *fissurella græca*, *emarginula fissura*, *trochus tenuis*, *t. magus*, *natica glaucina*, *cingula pullus*, *purpura lapillus*, *pleurotoma gracilis*, *bullia hydatis*.
- Branchial shield of *aplysia depilans*.
- Rev. W. Richardson..... *Cyclas rivicola*.
- Hon. and Rev. H. Howard..... 20 species of foreign shells.
- Mrs. Wright..... 20 species of foreign shells.
- Professor Necker..... *Melania Rolandri*.
- E. Gibson, Esq..... 5 species of foreign shells.

NOVEMBER.

- Rev. W. Hincks..... } 4 species of British shells, viz. *patella Clealandi*, *ianthina communis*, *cypræa europæa*, and *rostellaria pes pelicani*.
- 5 species of foreign shells.

1829.

JANUARY.

- | | | |
|-----------------------|---|---|
| Mr. T. Allis..... | } | 11 species of British shells, viz.
Sanguinolaria vespertina, venerupis sarniensis, cerithium costatum, trochus conicus, nerita lacuna, cingula ulvæ, c. striatula, c. interrupta, c. cimex, bulla obtusa, helix pomatia. |
| S. B. Bruce, Esq..... | | 2 specimens of Venus Dione. |

RADIARIA.

1828.

OCTOBER.

- | | |
|------------------|-------------------|
| Mrs. Wright..... | Cidaris lucunter. |
|------------------|-------------------|

POLYPARIA.

1828.

FEBRUARY.

- | | |
|-----------------------|---|
| Mrs. G. Bulmer..... | Plumularia falcata.
Flustra foliacea. |
| Mr. F. J. Copsie..... | } Isis hippuris, i. oculina, i. virginea.
Caryophyllia fastigiata.
Pocillopora damæcornis.
Porites scabra. |

MARCH.

- | | |
|-------------------------|-----------------------------------|
| Mr. James Backhouse.... | Caryophyllia sinuosa, and Astræa. |
|-------------------------|-----------------------------------|

JULY.

- | | |
|----------------------|---|
| John Bland, Esq..... | Caryophyllia carduus, and Millepora alcicornis. |
|----------------------|---|

BOTANY.

1828.

FEBRUARY.

- Mrs. W. V. Vernon..... A collection of British sea weeds.
Mrs. G. Bulmer..... A collection of sea weeds from the
Yorkshire coast.

APRIL.

- M. Colquhoun, Esq..... Seeds from the neighbourhood of Real
del Monte.

OCTOBER.

- Hon. Lady Turner..... A series of plants from the polar shores.
Miss Dixon..... Marine plants from the Yorkshire coast.

NOVEMBER.

- Rev. W. Hincks..... A collection of fruits and seeds.

DECEMBER.

- S. Stapylton Esq..... Dried plants from North America.
Mr. H. Baines..... A volume of mosses.

ANTIQUITIES.

I. COINS AND MEDALS.

1828-9.

Rev. W. V. Vernon.....		A styca of Æthelred. Scottish coin of Charles II.
Mr. Alderman Hearon....		3 Roman coins, <i>ar.</i> 3. 2 Roman coins, <i>æ.</i> 3. 2 Stycas. 4 Eng. <i>silver</i> , &c.
J. Bland, Esq.....		8 half-groats of Edward I. and II. 5 copper coins.
Rev. Archdeacon Eyre....	}	Valerianus, <i>æ.</i> 3. 2 English coins. 2 tokens, found on the north side of the Minster.
Rev. W. V. Vernon, and W. Wright, Esq.	}	Magnentius, <i>æ.</i> 2. and 32 coins and tokens ; found on the Manor Shore.
Dr. Beckwith.....		One Roman coin, <i>æ.</i> 3. 3 tokens.
Dr. Wasse.....	}	10 Roman coins, of the Cæsars, <i>æ.</i> 1. 8 Roman coins, <i>æ.</i> 2 and 3. 7 Roman coins, <i>ar.</i> 3. 15 English and other modern coins and tokens.
H. Bower, Esq.....	}	Trajanus, <i>æ.</i> 1. 2 gold foreign modern coins. 7 English, <i>silver</i> . 10 foreign coins and medals, <i>silver</i> . 15 foreign coins and tokens, copper.
Thomas Beatson, Esq....		Gordianus, <i>æ.</i> 1.
Mr. S. Kenrick.....		6 English, <i>silver</i> , of Edw. and Eliz.

II. MISCELLANEOUS ANTIQUITIES, &c.

1828-9.

- | | | |
|-----------------------------------|---|---|
| Mr. S. Woodward..... | } | 24 impressions of monastic and other ancient seals. |
| | | Model and coloured drawings of the mould of a celt. |
| Dr. Hull..... | | Fragment of a sculptured stone found at Beverley. |
| Mr. Johnson, <i>Pocklington</i> . | } | A modern oriental M.S. on a silver plate, obtained at the capture of Rangoon. |
| | | |
| Rev. W. V. Vernon..... | | An antique jet ring. An antique seal. |
| Mr. F. J. Copsie..... | | A small earthen Egyptian image. |
| Mrs. Best..... | | A Lachrymatory, found at the Mount, near York. |
| Dr. Murray..... | | Fragment of a symbol of Isis, found at Aldborough (Isurium.) |

DONATIONS TO THE LIBRARY.

1828.

FEBRUARY.

- Dr. Goldie..... Monro on Fishes, folio.
- M. Stapylton, Esq. }
 (the Author.) } Letters on Prison Discipline, &c. 8vo.
- Whitby Lit. and Phil. Soc. Report of the Society for 1827.
- Dr. C. Wilkinson, }
 (the Author) } Logometric Scale of Chemical Equiva-
 lents.

MARCH.

- Rev. W. Taylor, }
 (the Author.) } Diagrams of Euclid, for the use of the
 Blind, 8vo.
- Mr. W. Gray, jun. Hatchett on Gold, 4to.
- M. J. A. De Luc, }
 (the Author.) } Mémoire sur les pierres Alpines 4to.
- Rev. J. Graham..... }
 } M.S. and printed translations of portions
 of Scripture into the Malayalam
 language.

APRIL.

- Eust. Strickland, Esq..... }
 } Smith's English Flora, 4 vols. 8vo.
 } Smith's Grammar of Botany, 8vo.
- Mr. Alderman Wilson.... Beauties of England and Wales,
 18 vols. 8vo.

- Royal Asiatic Society of Great Britain. } Transactions of the Society, vol. i. part 2 ; List of Members ; Rules ; Desiderata and Enquiries.
- Hull Lit. and Phil. Society Report of the Society for 1827.
- W. H. Benson, Esq. }
(the Author) } Ichnography of Whitby Abbey, 8vo.
- JULY.*
- Mr. Alderman Smith..... Gerarde's Herbal, folio, 1636.
- Dr. Cayley..... Allan's Mineralogical Tables, 1st. edit. 8vo.
- Society of Arts, &c. }
Adelphi, London. } Transactions of the Society, 45 vols. 8vo.
- Dr. Hutchinson, *Ripon*... Hutchinson on the Frog-fish of Surinam, 4to.
- Rev. J. Skinner }
(the Author.) } M.S. Dissertation on a Roman Villa found at Wellow, Somerset.
- W. Wright, Esq..... } 5 Prints of Mosaic Pavements, found at the same place.
- W. Wright, Esq..... } 2 Prints of Mosaic Pavements at Lyons.
- Rev. Dr. Buckland..... }
} Print of a portion of a jaw, with teeth, of the Mastodon Elephantinus from Ava.

OCTOBER.

- Mr. J. B. Giles..... Thompson's Memoir on Pentacrinus Europæus, 4to.
- Professor Necker }
(the Author) } Mémoire sur les oiseaux des environs de Genève, 4to.
- Professor Necker }
(the Author) } Lettre sur la Géologie, 8vo.
- Professor Necker }
(the Author) } Discours sur l'histoire de la Géologie, 8vo.

- Gideon Mantell, Esq.
(the Author.) { The Fossils of the South Downs, or
Illustrations of the Geology of Sussex,
4to.
- Mr. F. J. Copsie..... { Plot's Natural History of Staffordshire,
folio, 1st edit. 1677, with M.S. addi-
tions.
- J. Britton, Esq..... Specimen of " Picturesque Antiquities
of English Cities."
- Dr. J. Harwood..... { On the Curative Influence of the South-
ern Coast, by W. Harwood, M.D.
8vo.
- Mr. W. Gray, jun..... Temminck Manuel d'Ornithologie, 8vo.
- Bristol Institution..... Report of the Institution for 1827.
- Perth Lit. and Antiq. Soc. Transactions of the Society, 8vo.
- Leeds Phil. and Lit. Soc.. { Report of the Society for 1827-8.
Account of a Mummy in the Museum
at Leeds, with an original drawing.

NOVEMBER.

- Mr. F. J. Copsie..... Leuwenhoeck Opera omnia, 4to. 1722.
- Mr. S. Woodward..... Specimen of a work on the Geology of
Norfolk.

DECEMBER.

- Rev. J. Kenrick..... { Plinii Historia Naturalis, ed. Harduini,
Paris, 1723, 3 vols. folio.
- Mr. J. Phillips..... { Ray's Wisdom of God in the Creation,
2 vols. 8vo.
- { Derham's Astro-theology, 8vo.
- Purchased by Subscription. Audubon's Birds of America, parts 5
to 9, inclusive, Atlas folio.

JANUARY, 1829.

- | | |
|--------------------------------------|---|
| W. J. Henwood, Esq.
(the Author.) | } Observations on Steam-Engines, 8vo. |
| Royal Society of Edinburgh. | Transactions of the Society, vol. iv.-xi. |
| Eust. Strickland, Esq..... | Wood's Catalogue of Works on Natural
History, 8vo. |
| Professor Griscom..... | Silliman's American Journal for 1828. |
-

BOOKS PURCHASED.

- Mohs' Mineralogy, by Haidinger, 3 vols. 12mo.
 Fleming's Natural History of British Animals, 8vo.
 Dillwyn's Catalogue of British Shells, 2 vols. 8vo.
 Selby's British Ornithology, 8vo.
 Harland's American Fauna, 8vo.

WORKS IN CONTINUATION.

- Philosophical Transactions.
 Transactions of the Geological Society.
 Philosophical Magazine and Annals of Philosophy, *monthly*.
 Quarterly Journal of Science, edited at the Royal Institution.
 Jameson's Edinburgh Philosophical Journal, *quarterly*.
 Brewster's Edinburgh Journal of Science, *quarterly*.
 Cuvier's Animal Kingdom, by Griffiths.
 Zoological Journal.
 Sowerby's Genera of Recent and Fossil Shells.
 Sowerby's Mineral Conchology.
 Stephens's Illustrations of British Entomology.

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ANNUAL REPORT

FOR

MDCCCXXIX.



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OF THE COUNCIL

OF THE

Yorkshire Philosophical Society

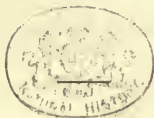
FOR

MDCCCXXIX.

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 2ND, 1830,

WHEN THE NEW MUSEUM WAS OPENED.



YORK :

PRINTED BY W. ALEXANDER AND SON, CASTLEGATE.

1830.

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中華書局出版

一九五〇年

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OF THE
Yorkshire Philosophical Society,

HELD IN

THE NEW MUSEUM, FEBRUARY 2ND, 1830 :

The Annual Report of the Council having been read :—

RESOLVED, on the Motion of SIR J. V. B. JOHNSTONE, BART.
seconded by the VEN. ARCHDEACON MARKHAM,—

That the Report be adopted and printed.

RESOLVED, on the Motion of HENRY PRESTON, Esq., seconded
by E. S. STRANGWAYES, Esq.—

That this Meeting views with entire approbation the satisfactory
manner in which the YORKSHIRE MUSEUM has been completed.

RESOLVED, on the motion of SIR GEORGE CAYLEY, BART.,
seconded by WILLIAM WORSLEY, Esq.—

That this Meeting recommend that an APPEAL be made to the
County of York, for a RENEWED SUBSCRIPTION towards liquidating
the Debt incurred by the completion of the Building, the formation
of the Botanic Garden, and the other extensive Improvements
connected with this Institution.

RESOLVED, that the following Rules be adopted :

1. Members shall be allowed to give to occasional Visitors orders of admission to the Gardens and Museum, signed with the Member's name, and bearing the name of the person to be admitted.
2. The adult members of the family of a Member of the Society, residing under his roof, shall be admitted without an order.
3. The above privileges of Members shall be extended to Contributors of Fifty Pounds to the Building Fund.
4. Ladies may be admitted by the Council to become Annual Subscribers to the Museum and Gardens : a payment of One Pound shall entitle the Subscriber to have access thereto for the current year, and also personally to introduce her female friends as occasional Visitors.

The thanks of the Meeting were voted to the President ; to the Secretary and Members of the Building Committee ; to WILLIAM WILKINS, Esq. R.A. for his liberal contribution of the classical design of the Museum ; to J. P. PRITCHETT, Esq. for his valuable professional assistance ; and to the Vice-Presidents and Members of the Council, retiring from office by rotation.

R E P O R T

OF

The Council

TO THE ANNUAL MEETING OF THE SOCIETY,

ON THE 2ND OF FEBRUARY, 1830.

IN addressing the Annual Meeting for the first time within the walls of this Museum, the Council may perhaps be allowed to indulge some feelings of pride and satisfaction on seeing the hopes of the Society thus far accomplished, and a new era of its existence commenced. It was only justified, indeed, in assuming the name to which it has pretended, by the expectation of such an event. In the confined space from which it has now emerged, to take possession of this ample edifice, it was to be considered rather as meditating the plan, than as acting the part of a SCIENTIFIC INSTITUTION for the COUNTY OF YORK. It has now that of which all who have attended to the history of such institutions well know the importance, it has not only a local but a visible habitation, and stands forth in open view. Challenging the public eye, and satisfying, it is hoped, the public taste, it calls with confidence on whatever public spirit, whatever respect or zeal for science, is to be found

within the most extensive, the wealthiest, and the most patriotic district in England.

Justice has been done to the genius of the Architect, both in the beautiful material of which the Building is constructed¹ and in the fidelity with which the Committee have executed the design; and it is highly gratifying to remark, that though on subjects of taste differences of opinion may always be expected to occur, it seems in the present instance to be the general sentiment of the County, that the work which it has so liberally supported has not been unskillfully performed, and that Science has here been presented with a suitable and a delightful abode.

Not the least popular part of the new establishment is the GARDEN which surrounds the Museum, and which gives already so ornamental a character to its site. The ground is now put into a state of cultivation. A plan has been formed, and partly executed, for laying it out in such a manner as to combine a botanical distribution of the plants with a pleasing effect to the eye. The irregularities of form which the present taste in landscape gardening approves, will become subservient to the subdivision of the orders, so as to make both the affinities and differences as evident as possible to the observer, without producing that formality which usually accompanies scientific arrangement. The method which the

¹ The freestone of which the Museum is built is a fine variety of the *Kelloways Rock*, quarried at Hackness: it was given in a very liberal manner to the Society by Sir J. V. B. Johnstone, Bart.

Curator ¹ proposes to adopt, is that of De Candolle ; as being more intelligible and easy than any other modification of the *Natural System*, while it is also generally received by the most eminent botanists.

The Council consider themselves as fortunate in the person ² whom they have engaged to take the charge of this department under the Curator, a person qualified by his skill and industry not only to cultivate the Garden with scientific diligence, but to render essential service to the Museum. His activity has already obtained for the Society above five hundred plants; and such is the liberality which is shown, both by members and others, in these donations, that it is probable there will not be less than fourteen hundred specimens planted without purchase in the course of the ensuing season. Offers of assistance have been received from the intelligent Curator ³ of the Botanic Garden at Hull, and from Professor Von Martius at Munich ; and the Society may expect soon to possess a very large collection of hardy herbaceous plants.

It has been mentioned in former reports of the Society's proceedings, that the extensive excavations carried on in its grounds, had brought to light many beautiful specimens of the varied sculpture which characterized different styles of the ecclesiastical architecture of this country in past ages. These are now displayed in the Museum, and form by no means the least interesting portion of the collections which

¹ The Rev. W. Hincks, F.L.S.

² Mr. Henry Baines.

³ Mr. Smith.

it contains. The suggestions of the Curator of Antiquities¹ on this subject highly deserve the attention of the Meeting. “ He indulges the hope that larger accessions will be made of other relics, illustrative not only of the architecture of ancient times, but of many other subjects of antiquarian research. A suitable depository for the numerous remains of YORKSHIRE ANTIQUITIES has long been desired; and *where* can such a depository be formed with greater propriety and advantage than in the capital of the county, amidst so many existing monuments of ancient grandeur, and under the auspices of an Institution which, strong in its infancy, and giving signs of a long continued existence, will afford, in the increasing stores of its Museum, the readiest and most invaluable aid to the investigations of the topographer, no less than to those of the student and historian of nature. Had such an institution flourished a century ago, how many curious productions of ancient art might have been preserved, of which there are now no traces to be seen! How many yet remaining, but daily exposed to the ravages of weather or of wantonness, and to the dangers attendant upon passing through the hands of successive owners, may be rescued from the fate that threatens them, if the present design should be realized, and the scattered fragments of antiquity collected in this Museum !”

Such a design is entirely consonant with the general plan of the Society; for it must always be remembered, that although there is NO PART of real knowledge, whether of art or nature, to which it does not wish to apply itself, yet LOCAL information, and whatever materials of information

¹ The Rev. C. Wellbeloved.

relate to Yorkshire, are its principal objects ; and of these objects, in whatever degree the Institution may be enlarged, it ought by no means ever to lose sight. Other collections within these walls will have their use for the instruction of the student ; but as far as the PROGRESS of learning or science is concerned, intelligence of the district to which we belong, is our proper study and our most useful pursuit.

Reverting, then, again to the subject of antiquities, the Council have to remark, that among the communications made to the Society during the last year, there was a paper¹ on the discovery of a Roman road, and works connected with it, on the Wolds, which had a peculiar interest in this point of view ; and it has been suggested that a great benefit might be conferred on some future topographer of the county, if similar observations were made by other members of the Society, and communicated, with proper measurements and plans, to be deposited in the archives of the Museum. " These works," the Curator has justly remarked, " are objects of importance to the reader of history, as well as to the antiquary. Many such works have disappeared ; and many are continually disappearing. The plough that discloses the rust-eaten javelin, and the empty helmet, and the bones of the horse and his rider, levels the ramparts, obliterates the causey, and effaces all the labors of the victorious legions of Rome. To trace the four great roads by which Britain was traversed during its subjection to that power, has long baffled the exertions of the most diligent and

¹ By the Rev. Mr. Rankin.

keen-eyed antiquaries, and few of the many ways which connected them or branched out from them can now be perceived. The general bearing, however, of most of them is not unknown; and if members of the Society or others living near the supposed line of them, or near any of the stations which the Romans are thought to have held, would employ their leisure in a careful examination of their neighbourhood, some useful knowledge might yet be recovered, which can be recovered by no other means."

It is not irrelevant to this subject to state, that a considerable number of Roman denarii having been lately found in the vicinity of Huddersfield, near the supposed site of the ancient Cambodunum, sixteen of the most perfect were purchased for the Society, and together with them, eight very rare and interesting British coins found at the same place, belonging to the class called the coins of Cunobelin, but for preservation and curiosity exceeding any, it is probable, that have been before discovered.

The same character of local research, in a different department of knowledge, enhances the value of a work published during the last year by one of the Officers of the Society, a work which has every where received the approbation of geologists, but which must *here* be regarded with peculiar satisfaction. Mr. Phillips's excellent "Illustrations" of the Geology of the eastern part of this county, may be considered as the first fruits of the Yorkshire Museum, and have been the means of communicating to distant countries the information to be drawn from its collections.

It was upon the same principle, that the Council itself took an active part in investigating a discovery recently made in the neighbourhood of North Cliff, by which some material additions have been gained to the natural history of the Antediluvian World. This is the most remarkable geological phenomenon which has been observed since the first institution of the Society; but as the results of the investigation have been published,¹ the Council have only to add, that the thanks of the Society are due to one of its members² for the facilities which he has afforded to the examination, and for the regard which he has shown to the interests of the Museum.

Whilst particular attention has thus been paid to subjects of local research, it will appear from the account of the COMMUNICATIONS to the Monthly Meetings, that more general enquiries have not been neglected. Under this head it may be noticed that information, peculiarly interesting to the Society at the present moment, has been obtained, respecting the state and arrangement of Museums in Holland, Germany, and France. It will be seen also from the list of DONATIONS, that the Society's collections have been enriched by contributions from every quarter. A valuable present has been received³ of skins of quadrupeds, birds, and fishes, collected in various parts of Europe; and a

¹ See Philosophical Magazine, for Sept. 1829, and Jan. 1830.

² Wm. Worsley, Esq.

³ From Wm. Marshall, Esq. F.G.S.

considerable addition has been made¹ to the splendid donations of American zoology acknowledged in the last Report. Among the accessions to the geological part of the Museum, may be remarked the remains of the pterodactyle from the quarries of Stonesfield,² and a beautiful suite of shells from the tertiary beds in the vicinity of Paris.³ Nor have the Yorkshire contributions been deficient either in number or interest. The large donation⁴ of fossils from the mountain limestone of Craven is the more valuable, because it helps to supply one of the most defective parts of the Society's collection; and Mr. Smith's present of a geological map of the country round Scarborough, has the merit of displaying in a striking degree the minuteness and accuracy of investigation which accompany the enlarged and comprehensive views of this admirable geologist. The Council have again to acknowledge the liberality of the Curator of the Library,⁵ in meeting a vote of money for the purchase of books, with a contribution from his own purse; and they have the gratification of presenting a long list of donations in that important department, not a few of which are rare and valuable, and of pointing out to the attention of the Meeting the increased number of presents from eminent authors and distinguished public institutions. Among these presents, the most interesting is the work on the ruins of St. Mary's Abbey, to the illustration of which the labors of this Society have so largely contributed. Two hundred copies have been received from the Society of Antiquaries, a part of which have been already distributed among the members of the Society and the

¹ By S. Stapylton, Esq.

² Presented by Dr. Daubeny, Professor of Chemistry in the University of Oxford.

³ Presented by Mrs. Murchison. ⁴ By Mr. Kirby. ⁵ Eust. Strickland, Esq.

Subscribers to the Building Fund, and a part still remain to be disposed of.

In passing from this report of the Society's scientific proceedings and acquisitions, to its pecuniary accounts, it is to be observed, in the first place, that the expectations not only of convenience but of advantage from the new LECTURE ROOM have been thus far realized, even though it was opened in an unfinished state. After the usual salary of the lecturer and the incidental expenses were paid, there remained to the Society a profit of Fifteen Pounds :¹ and, doubtless, if accuracy of knowledge, if ardor for the sciences which he teaches, and a happy talent for explaining them—if these qualifications can ensure success to a lecturer, the lectures of the Keeper of the Museum may always be expected to be successful. It is not proposed, however, in future to look to any profit to the Society from this source. Mr. Phillips will deliver some lectures during the summer, on the economy of the animal kingdom; but the Council are desirous of assigning *to himself* the whole of whatever emolument may be derived from the course. The Curator of Botany has also offered to favor the Society with a course of lectures on that science, the produce of which will be appropriated to the Garden Fund.¹

¹ The lamented death of Mr. E. S. George has deprived the Society of the lectures announced in the last Report as designed for the benefit of the Laboratory. Mr. George was an honorary member of the Yorkshire Philosophical Society, and honorary Curator of the Institution at Leeds. In him these societies have prematurely lost an associate, not more distinguished for scientific acquirements than for zeal in diffusing science, and for the modest, liberal, and benignant spirit of a true philosopher.

The Treasurer's Report will show that, so far as the ANNUAL ACCOUNTS are concerned, the finances of the Society are in a prosperous state ; and that the balance in its favor for the past year amounts to somewhat more than a hundred pounds. But the most material point in its affairs to which the Council have to call the attention of the Meeting, is the EXTRAORDINARY EXPENDITURE which has been incurred, on account of the New Museum and the improvements connected with it : and for a satisfactory explanation of that expenditure, they must refer to the REPORT of the BUILDING COMMITTEE.

After stating that all the accounts have been made up to the commencement of the year 1830, the Committee proceed to report upon them in the following manner :

“ The Accounts now presented are arranged under six heads. The FIRST of these includes the total expense of the main Building ; and the amount is 6868*l.* The sum originally proposed to be laid out upon it was 5650*l.* ; but the expenditure was increased by the following improvements : the basement floor was extended under the whole building ; the zoological museum was enlarged to such dimensions as would allow a gallery to be hereafter erected ; the side museums were faced with stone ; and, not to mention other additions for convenience or ornament, it was determined to warm the whole fabric by hot air stoves, and to

light it with gas. The Committee do not apprehend that any one conversant with building, who considers the character and extent of this edifice, will think the sum which has been spent upon it unreasonably great.

“ Under the **SECOND** head is placed the expense of the entrance lodge and gates, the boundary walls and out-buildings, which amounts to 1150*l.* On this head the Committee have only to remark, that the magnitude of the charge is owing to the extent of ground which was to be enclosed, and which required boundary walls of more than 300 yards in length, besides other fencing.

“ The **THIRD** head comprises the repairs of the ruined Abbey, the excavations carried on to trace the old foundations of the Monastery, the formation of the roads, walks, and grounds, and the laying out of the Garden. The total of this expenditure is 831*l.* Such operations could neither be exactly calculated, nor confined within a fixed limit ; but they were vigilantly superintended, both by the Clerk of the works and by several members of the Committee.

“ The furniture of the Museum, and the new cabinets prepared for the reception of specimens, form the **FOURTH** head of the account ; and on these has been expended the sum of 527*l.* : such an addition to the former accommodations having become absolutely necessary, to display even the *present* riches of the Society to any advantage.

“ Lastly, under the **FIFTH** and **SIXTH** heads are classed the claims of former occupiers of the premises now belonging to the Society, which amount to 191*l.*, and the bills for

printing and advertising, which, with the legal and other miscellaneous expenses, amount to 219/.

“ The sum of the expenditure on all these heads is 9787/., a sum certainly greater than had been anticipated, but not greater, the Committee feel assured, than was necessary to do justice to the plan of a COUNTY MUSEUM, and to fulfil the wishes of the Subscribers. They request that their Minutes may be laid before the Society at its Annual Meeting, in order that a judgement may be formed of the manner in which the work has been conducted ; and they beg to be indulged in making a few observations upon this subject.

“ It has been already remarked, that of some part of the task which devolved upon them, it was impossible to calculate the cost. Of this nature was the investigation of the remains of antiquity discovered in the Society’s premises, and the conversion of the large tract of rubbish which covered them into garden ground. But in all cases where it was practicable, it will be found that the charges for every part of the work were ascertained beforehand and contracted for, and that as much pains were taken in checking the expenditure as if it had been of private concern.

“ It cannot be necessary to enlarge upon the obligation which the Society owes to Mr. Wilkins, for the liberality with which he has conferred upon it the benefit of his well known talent and enlightened taste. The professional assistance received from Mr. Pickersgill has been already acknowledged in a manner which could not but be gratifying to his feelings ; and it only remains for the Committee to state, in justice to one of their own members, that the disinterested

and able services of Mr. Pritchett have been of the utmost consequence, both to the execution and economy of the work. He has devoted much of his valuable time to the meetings of the Committee, and has given his gratuitous advice and superintendence on every occasion on which his judgement and experience could be useful."

From this Report, then, it appears that the expenses incurred by the Society amount to nearly 9800*l.* The fund which is available to answer that demand is about 8300*l.*, thus leaving a debt of 1500*l.*; a debt which will undoubtedly prove a heavy incumbrance, if means cannot be devised for paying it off. In the present state of our annual income, we may indeed defray the interest of such a debt, and still go on.—But let the meeting consider IN WHAT MANNER we shall go on, as respects the character and utility of the Institution. We may go on—giving a salary of sixty pounds a year to the Keeper of the Museum: and would any member of the Society wish to retain his services on such inadequate terms? We may go on—but with an unfurnished Laboratory, and a Library to which the naturalist or the antiquary would refer in vain. We may go on—but we must leave to others to explore, even in our own county, the mysteries of nature, and to collect the monuments of art.

The Society, in short, is not insolvent, but it is deeply embarrassed; and the effect of that embarrassment upon it at present is this, that it is compelled to be parsimonious in

points where liberality would not only be honorable to its character, but important to its success. The Society is not insolvent, but it labors under a weight of debt which is sufficient to depress its energy, and to stifle its exertions.

Yet it does not follow that the Committee have risked too much. They doubtless thought they saw, in the existing subscriptions, a SPIRIT of more importance than the actual amount ; they thought they saw, in the liberality of the Subscribers, a cordial approbation of the plan, and an ORDER to execute it well.

At this time last year, the current of the subscription was suddenly stopped by a disaster which, in an unprecedented degree, absorbed the attention, and called forth the vast munificence of the County. Then, when the means had been supplied of restoring the Minster to its former splendour, the wants of the Hospital came to be known ; and those wants were by an universal impulse immediately relieved, to an extent which the warmest friends of the charity could scarcely have hoped. This it is of which a Yorkshireman is justly proud, that whenever any public object is to be achieved, there is always in the great community to which he belongs both the will and the power to achieve it. Upon THAT will and power the Council are not aware that there is at present any rival claim. They beg leave, therefore, to submit to the Meeting the importance of immediately adopting some measure to REVIVE THE SUBSCRIPTION, and by making the necessities of the Institution known, to obtain for it the assistance which it requires. The aid which has never yet

been denied to a great and useful object, they hope will not be withheld from THIS. They trust that all who have observed the progress of the Society, will think it deserving of a liberal support; and they feel assured that those who have fostered it in its infancy, will not desert it at this crisis of its more mature existence.

THE TREASURER'S ANNUAL

<i>Dr.</i>	£.	s.	d.
Received arrears of former years.....	33	0	0
Received subscriptions for 1829 from 165 members at 2 <i>l.</i>	330	0	0
Received ditto from 3 non-resident members at 1 <i>l.</i>	3	0	0
Received admission money from 15 new members at 5 <i>l.</i>	75	0	0
Received of Cooper Preston, Esq. subscription and arrears 7 <i>l.</i> donation 3 <i>l.</i>	10	0	0
Received of Eust. Strickland, Esq. a donation for purchase of elementary books in Natural History.....	7	0	0
Received of the Rev. W. V. Vernon a donation towards the excavation at North Cliff.....	12	0	0
Receipts of Mr. Phillips's Lectures.....	58	4	0

£528 4 0

	£.	s.	d.
Balance in the hands of the Treasurer.....	28	14	11
Arrears due from Members.....	73	0	0

Balance in favor of the Society £101 14 11

ACCOUNT FOR 1829.

<i>Cr.</i>	<i>£. s. d.</i>
Balance due to the Treasurer at the close of 1828.....	91 7 9
Purchase and preparation of specimens.....	69 12 3
Excavation at North Cliff.....	22 0 0
Books and binding.....	49 4 2
Printing.....	31 7 9
Stationery.....	2 1 8
Expenses of Lectures :	
Lecturer's Salary.....	31 10 0
Incidental expenses.....	11 13 3
	} 43 3 3
Rent, Taxes, and Insurance :	
Rent of Society's late apartments.....	36 15 0
Ditto of part of the Museum Grounds.....	6 12 6
Land-tax and poor-rates.....	2 3 8
Insurance.....	6 15 0
	} 52 6 2
Salaries and Wages :	
Keeper of the Museum....	60 0 0
Servant.....	20 0 0
Subcurator (last quarter of 1829).....	13 13 0
	} 93 13 0
Incidents :	
Freight, carriage, and postage.....	14 6 10
Coals.....	8 16 3
Sundry small bills and miscellaneous expenses.....	21 10 0
	} 44 13 1
Balance in the hands of the Treasurer.....	28 14 11
	<hr/>
	£528 4 0
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JONA. GRAY, TREASURER.

ABSTRACT OF THE ACCOUNTS

EXPENDITURE. *

	£.	s.	d.
1. Main Building :			
Mason.....	2567	17	10 $\frac{1}{4}$
Carpenter.....	1390	12	11 $\frac{1}{4}$
Bricklayer.....	677	19	6 $\frac{1}{2}$
Plumber.....	784	6	8
Plasterer.....	615	14	8
Slater.....	156	10	3
Ironmonger.....	60	1	1
Painter.....	51	3	3 $\frac{1}{2}$
Hot air Stoves.....	233	17	11 $\frac{3}{4}$
Gas-pipes.....	92	2	10
Architect.....	173	5	0
Sundries.....	65	2	4 $\frac{1}{2}$
	6868	14	5 $\frac{3}{4}$
2. Lodge, boundary walls, &c.			
Entrance-lodge and gates.....	514	12	5
Boundary walls, (305 yards,) other fences, and out-buildings.....	635	0	2 $\frac{3}{4}$
	1149	12	7 $\frac{3}{4}$
3. Abbey, excavations, roads, and garden :			
Repairs of the Abbey.....	171	11	3
Measurement and Plan of the Ruins....	40	0	0
Excavating, levelling, and making roads	580	4	1 $\frac{1}{2}$
Trees, shrubs, and grass-seeds.	39	13	10
	831	9	2 $\frac{1}{2}$
4. Cases and Furniture.....	527	5	6 $\frac{1}{4}$
5. Claims of former occupiers of the ground.....	190	18	4
6. Printing, advertising, stationery, legal and miscellaneous expenses.....	218	17	9
Total.....	£9786	17	11 $\frac{1}{4}$

* The accounts of expenditure and subscriptions are made up to 1st of January, 1830.

OF THE BUILDING COMMITTEE.

AVAILABLE FUND.

	<i>£.</i>	<i>s.</i>	<i>d.</i>
Amount of Subscriptions.....	7775	10	0
Interest allowed by the Bankers.....	184	0	0
Estimated proceeds of the "Account of St. Mary's Abbey".....	250	0	0
Surplus of Annual Income.....	100	0	0
	£8309 10 0		

Expenditure..... 9786 7 11 $\frac{1}{4}$

Available Fund..... 8309 10 0

Deficit..... £1477 7 11 $\frac{1}{4}$

SCIENTIFIC COMMUNICATIONS

RECEIVED AT

THE SOCIETY'S MEETINGS.

FEB. 3rd, 1829.—Register of meteorological observations at York, during every hour of the day and night of the 15th January, 1829 : by several members of the Y.P.S.

Corresponding observations made at Moat Hall, near York : by J. Wasse, M.D.

Account of the quantity of Rain at Wigton, in Cumberland, during the last seven years : by J. Pemberton, Esq.

Account of new experiments on the combustion of Coal-gas : by the Rev. Wm. Taylor.

MARCH 3rd.—Geological and mineralogical notices, and remarks on Museums in Germany : by Wm. Marshall, Esq. F.G.S.

On the original situation of the Statues lately discovered among the ruins of St. Mary's Abbey : by R. D. Chantrell, Esq. Architect.

Further experiments on Coal-gas : by the Rev. Wm. Taylor.

APRIL 7th.—On the distinctions and habits of British Summer Birds of passage : by Arthur Strickland, Esq.

On the most advantageous mode of burning Coal-gas : by the Rev. Wm. Taylor.

JULY 7th.—On a new form of Pump : by the Rev. Wm. Taylor.

Remarks on the colouring matter of purple fluor spar, and of black marble ; and on the presence of crystalline fragments of calcareous spar in the black pottery of the Romans : by the Rev. W. V. Vernon, F.R.S.

OCT. 6th.—On Roman Roads across the Wolds of Yorkshire : by the Rev. T. Rankin.

Observations on a supposed encampment near Goodmanham : by the Rev. W. V. Vernon, F.R.S.

On the arrangements of Museums in Belgium, Germany, and France : by John Phillips, F.G.S.

Account of Observations made on a deposit of bones and shells near North Cliff by Messrs. Dikes, Phillips, Salmond, and himself : by the Rev. W. V. Vernon, F.R.S.¹

Nov. 3rd.—On the deposit of Stream Tin in Cornwall : by W. J. Henwood, Esq. F.G.S.

DEC. 1st.—On the Geology of Havre de Grace : by John Phillips, F.G.S.²

¹ See Philosophical Magazine for September, 1829.

² Philosophical Magazine for March, 1830.

Account of a new excavation carried on by desire of the Council at North Cliff: by the Rev. W. V. Vernon, F.R.S.¹

Notice of a deposit of timber recently discovered near Stockton-upon-Tees: by the same.

JAN. 5th, 1830.—Further geological and mineralogical notices in Germany: by Wm. Marshall, Esq. F.G.S.

On Fossil Plants: by Henry Witham, Esq. F.G.S.

¹ Philosophical Magazine for January, 1830.

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

1829.

FEBRUARY.

Mr. Kirby..... } 111 fossil remains of crinoïdea and mol-
lusca, from the mountain limestone,
near Clithero.

MARCH.

Rev. C. V. Vernon..... } Spongia cribrosa and fossil plants from
Northumberland.

Rev. Archdeacon Vernon.. } 2 specimens of fossil fish from the mag-
nesian limestone of Durham.

S. Hailstone. Esq..... } 7 fossil plants from near Huddersfield,
and a mass of gryphæa depressa from
Huntcliff.

Mr. C. Robinson..... } Polished mass of lias, containing bones
of ichthyosaurus. Scoria from a
coal-pit at Whitehaven.

Rev. W. V. Vernon..... } Fossil fern.

W. C. Trevelyan, Esq.... } 7 specimens of rocks from the Faroe
Isles, Calton Hill, &c.

APRIL.

- Rev. S. Creyke..... Slab of ammonitic marble from Somersetshire.
- Mr. S. Woodward..... 36 fossils from the crag and chalk of Norwich.
- Mr. John Coulson..... Fossil wood from Van Dieman's Land.

JULY.

- Dr. Daubeny, Prof. Chem. Oxon. } 38 specimens of organic remains (shells, fishes, and reptiles) from the slate quarries of Stonesfield.
- Mr. R. Ripley..... Scales of crocodile, and various ammonites, from the lias of Whitby.
- Wm. Wright, Esq..... } 36 fossils from the transition rocks of Herefordshire and mountain limestone of Yorkshire.
- Rev. E. Stillingfleet..... 9 echini and other fossils from the oolite of Hotham.
- Mr. Hawkes..... 3 spatangi from the calc grit near Castle Howard.
- Hon. & Rev. H. Howard.. Spirifera lineata from Tindal-fell.
- Mr. D. Tuke..... Compressed ammonites from the Kimmeridge clay of Settrington.
- Rev. T. C. R. Read..... Gryphæa bullata from Filey.
- Rev. W. V. Vernon..... } 23 fossils from the lias, &c. near Whitby, and from the basaltic dyke at Egton Bridge.
- Mr. R. Pickering..... Mass of ostreæ from Malton.

OCTOBER.

- Mrs. Murchinson..... 195 fossil shells from the *Calcaire grossier* of the Paris Basin.

- Rev. W. V. Vernon. Elephant's tooth from Middleton.
- Rev. E. Stillingfleet. Clypeus semisulcatus, from Hotham.
Stalagmite from Derbyshire.
- Rev. W. V. Vernon,
Wm. Salmond, Esq.
Mr. Phillips. } 12 species of land and fresh water shells
from the marl pit at North Cliff.
- Francis Cholmeley, Esq. Pentacrinus caput medusæ from
Bosworth, Leicestershire.
- Rev. M. G. Wynyard. Joint of cyathocrinus rugosus, from the
diluvium of York.
- Wm. Marshall, Esq. Bones of quadrupeds, and shells, from
a fresh water deposit at Weimar.

NOVEMBER.

- Rev. B. Newton. 71 specimens of shells from the crag of
Essex, &c.
- Rev. Mr. Frank. Calamites, from the sandstone of
Huddersfield.
- Mr. H. Baines. Ferns, lepidodendra, &c. from the
Bradford collieries.
- Mr. Phillips. Nautilus elegans from the green sand of
Havre.
- Mr. H. Chapman. A new species of ammonites, and large
tooth, from Bridlington.

DECEMBER.

- Rev. S. Creyke. 6 specimens of Devonshire marble.
- F. Cholmeley, Esq. Series of rock specimens from Spa.
- Mr. C. Empson. Fossil shells from Newcastle coal field.
- Mr. Phillips. Series of fossils from the green sand
and Kimmeridge clay of Havre.
- Mr. Copsie. Trilobite from Dudley. Echini and
shells from the green sand of Wilts.

MINERALOGY.

1829.

MARCH.

- Mr. Copsie Arseniate of iron from Caldbeck Fells.
W. C. Trevelyan, Esq. 31 minerals, chiefly of the zeolite family,
from the Faroe Islands.

NOVEMBER.

- H. A. Littledale, Esq. Hauyne and olivine from Andernach.

DECEMBER.

- Mr. Copsie Fluor spar from Cumberland.
2 Moss Agates.

1830.

JANUARY.

- G. Champney, Esq. Copper and lead ores from Norway.
Mr. Ellison Quartz from Caermarthenshire.
Rt. Hon. Lady Feversham Moss Agate.

-
- PURCHASED } 54 specimens of minerals from Germany,
Bohemia, and Norway, including
moroxite, tungstate of lime, hyalite,
radiated blende, gehlenite, spargel-
stein, diopside, emerald, rhætizite,
&c.

ZOOLOGY:

1829.

FEBRUARY.

- | | | |
|----------------------------|---|--|
| Mr. Gilbertson..... | } | 54 species of land and fresh-water shells, from the neighbourhood of Preston, Lancashire. |
| Eust. Strickland, Esq..... | } | White-fronted goose, (<i>a. albifrons</i>) m. and f.
Golden-eye duck, (<i>a. clangula</i>) m. |
| Mr. Edward Rigge..... | | Colymbus Immer. |
| Mr. William Gray, jun.... | | Quail. |
| Rev. W. V. Vernon..... | | Brambling, (<i>fringilla montifringilla</i>) m. and f. |
| W. R. Crompton, Esq.... | | A young otter. |

MARCH.

- | | | |
|----------------------------|---|---|
| B. Clarkson, Esq..... | | Goosander, m. & f. (<i>mergus merganser</i> .) |
| Eust. Strickland, Esq..... | } | Young male goosander.
Red-necked grebe, (<i>podiceps rubricollis</i> .) |
| Mr. H. Graves..... | | Syngnathus, from Bombay. |

APRIL.

- | | | |
|----------------------------|--|---|
| Eust. Strickland, Esq..... | | Pine marten, (<i>martes abietum</i> .) |
| B. Clarkson, Esq..... | | A white mole. |
| Mr. H. Chapman..... | | Crop of the wood grouse. |

JULY.

- | | | |
|-------------------------|--|---|
| William Danby, Esq..... | | Series of British shells from the South coast of England. (30 species.) |
|-------------------------|--|---|

Mr. H. Baines	100 insects from New South Wales.
Mr. H. Graves	10 insects from Bombay.
Mr. T. Backhouse	Triton palustris, and triton aquaticus.
Rev. T. C. R. Read	Skull of polar bear.

	{ <p> Quadrupeds, Reptiles, Birds, and Insects, from North America, viz : Alligator, (<i>crocodilus lucius</i>.) Rattle snake, (<i>crotalus horridus</i>.) Summer duck, (<i>anas sponsa</i>) f. & 2 m. Surf duck, (<i>a. perspicillata</i>.) Canvas-back duck, (<i>a. vallisneria</i>) m. & f. Velvet duck, (<i>a. fusca</i>.) m. Ruddy duck, (<i>a. rubida</i>) m. and f. Widgeon, (<i>a. americana</i>.) Buffet-headed duck, (<i>a. albiola</i>) m. & f. Red-collared duck, (<i>a. rufitorquis</i>.) Blue jay, (<i>corvus cristatus</i>.) Meadow lark, (<i>sturnus ludovicianus</i>.) Red-headed woodpecker, (<i>picus erythrocephalus</i>.) Chatterer, (<i>bombycilla carolinensis</i>) m. and f. Red-winged oriole, (<i>oriolus phænicus</i>.) 3 specimens of red-shouldered oriole, (<i>icterus phænicus</i>.) Gold-winged woodpecker, (<i>picus auratus</i>) m. & f. Scarlet tanager, (<i>tanagra rubra</i>) m. & f. Baltimore oriole, (<i>icterus baltimorus</i>.) Blue robin. 2 Sea eagles, (<i>falco ossifragus</i>.) Hern. Bittern. Collared Kingfisher. </p> }
Stapylton Stapylton, Esq. .	

- | | | |
|-----------------------------------|---|---|
| Stapylton Stapylton, Esq. | } | Buzzard.
Great horned owl.
White-headed eagle.
Red squirrel, (<i>sc. hudsonius</i>) m. & f.
Ground squirrel, (<i>sc. striatus</i> .)
Grey squirrel, (<i>sc. cinereus</i> .)
300 North American insects. |
| W. Gossip, Esq. | } | Ballan wrasse, (<i>labrus balanus</i>)
caught off Scarborough. |

OCTOBER.

- | | | |
|------------------------------|---|--|
| L. Edmondstone, Esq. | } | Head of phoca barbata, head of ph.
vitulina, and fœtus of ph. barbata,
from Zetland. |
| W. Marshall, Esq. | } | Quadrupeds, birds, reptiles, and fishes,
from Germany and the Tyrol, viz.
Wild Boar, Chamois, Lynx, 2 Beavers,
skeleton of Beaver.—Falco palum-
barius, Ampelis garrula, Coracias
garrula, Ptarmigan, Capercaillie, m.
& f.—Rana esculenta, and r. arborea;
several specimens of each.—Silurus
communis, Perca leuciperca, Salmo
Wartmanni. |

NOVEMBER.

- | | | |
|--------------------------|---|--|
| Mr. T. Fawcett | } | Larva of the Goat Moth, (<i>cossus
ligniperda</i> .) inclosed in the heart of
an Ash tree. |
|--------------------------|---|--|

DECEMBER.

- | | | |
|---------------------------------|---|----------------------------------|
| Mr. Allis | } | Helix pomatia, and other shells. |
| Sir T. Frankland, Bart. | } | Horns of the Roebuck. |
| R. Wormald, Esq. | } | Paw of polar bear. |
| Mr. Isaac Priestman | } | Vertebra of a whale. |
| Mr. Ellison | } | Pair of red-legged crows. |
| Mr. Joseph Backhouse | } | Cranium of a cow. |

1830.

JANUARY.

- Dr. Hutchinson..... 8 specimens of the frog-fish of Surinam.
- Wm. Marshall, Esq..... } 20 foreign birds, viz : *Picus norvegicus*
 m. & f. *P. viridis*, m. & f. *P. martius*.
Turdus torquatus, m. & f. *Corvus*
caryocatactes. *C. glandarius*. *Motacilla*
suecica, m. & f. *Turdus cyaneus*.
Lanius excubitor, m. & f. *Turdus*
saxatilis. *Alauda alpestris*. *Motacilla*
regulus, m. & f. *M. curruca*. *Loxia*
curvirostra.
- Rt. Hon. Lady Feversham Wasp's nest, found in Duncombe Park.
 Chamæleon.
- Mr. J. C. Latrobe..... 100 insects from the Cape of Good
 Hope.

OMITTED IN LAST YEAR'S REPORT.

- Professor Necker, *Geneva* *Proteus anguinus*, from Carniola.
- Mr. Hamerton..... Rose coloured ouzel, (*pastor roseus*.)
- Mr. Cook..... Saw-fish, (*pristis antiquorum*.)

- PURCHASED } Skeleton of the Fallow Deer.
 10 British birds, viz : Kite, Hobby,
 Royston Crow, Snow bunting,
 Scoter duck, *fem.* Cinereous godwit,
 Ruff, Black guillemot, Eared grebe,
 Cormorant, *fem.*
 24 specimens of British fresh water
 fishes and reptiles.

COINS AND ANTIQUITIES.

1829—30.

Mr. S. Kenrick.....	}	7 English silver coins of Edward, Elizabeth, Charles i., and the Commonwealth.
	}	1 New English shilling, 1652.
	}	2 Spanish coins.
Mr. Hebden.....	}	1 counter. 2 copper coins.
Thomas Meade, Esq.....	}	Denarius of Julius Cæsar.
Mr. Etridge.....	}	Constantinus, æ. 2.
Andrew Lawson, Esq.....	}	30 Roman coins, chiefly brass, found at Uriconium, St. Albans, &c.
Mr. S. Woodward.....	}	12 local tokens, copper.
Francis Cholmeley, Esq... ..	}	38 local tokens, silver.
George Champney, Esq... ..	}	Medal, in commemoration of the removal of the rock forming the pedestal of the statue of Peter the Great.

Archbishop of York.....	}	Beautiful brass seal of <i>George Rygmayden</i> , of the early part of the 15th century.*
Mr. S. Woodward.....	}	Impressions of three seals, viz. cloth seal for the co. of Essex; seal of the Mayoralty of the Staple of Ipswich; seal of <i>Ivo de Vilarisico</i> .
Miss Benett.....	}	Impression of the seal of the Aulnage Office of the co. of Wilts, in the 17th year of Edward iv.

* An interesting notice on the subject of this very curious seal, has been communicated to the Society by Michael Jones, Esq. F.S.A.

DONATIONS TO THE LIBRARY.

1829.

FEBRUARY.

- | | | |
|-----------------------|---|---|
| B. Hague, Esq..... | } | Gent's History of Hull, 1733.
Gent's History of Ripon, Beverley, &c.
Gent's History of Pontefract.
Primer of King Henry VIII. 1546.
Torr's Antiquities of York, 1719. |
| W. H. Dikes, Esq..... | } | Brongniart (Ad.) Histoire des Végétaux Fossiles, 1st and 2nd Livraisons. |

APRIL.

- | | | |
|----------------------------|---|---|
| Mr. Phillips, (the Author) | } | Illustrations of the Geology of the Yorkshire Coast, 4to. |
| Rev. Wm. Taylor..... | } | Joannis de Sacrobusto Libellus de Sphæra. |
| Mr. W. Gray, jun..... | } | Camdeni Britannia, 12mo.
Merlini Anglici Ephemeris. |

JULY.

- | | | |
|--|---|--|
| Royal Asiatic Society.... | } | Transactions of the Society, v. ii. part 1. |
| Oriental Translation Committee of the R.A.S. | } | Travels of Ibn Batuta, translated by Professor Lee, under the superintendence of the Committee, 4to. |
| M. Adolphe Brongniart (the Author) | } | Considérations sur la Végétation, &c. 8vo. |

- Mr. Phillips..... Prodrome d'une Histoire des Végétaux
Fossiles, par Ad. Brongniart, 8vo.
- M. J. A. De Luc, }
(the Author) } 4 Pamphlets, 8vo.
- Geological Society..... Abstract of the Proceedings of the
Society, 1828-9.
- John Hogg, Esq. }
(the Author) } Natural History of the Vicinity of
Stockton on Tees, 8vo.

OCTOBER.

- W. J. Bröderip, Esq. }
(the Author) } Memoirs on Mollusca in the Museum
of the Zoological Society ;—on the
jaw of a didelphis from Stonesfield ;—
on the animal of the genus argonauta ;
—on a new species of cypræa, and on
the habits of paguri, &c.—on a new
land shell.
- R. I. Murchison, Esq. }
(the Author) } Memoirs on the tertiary and secondary
rocks near Bassano, and on the
bituminous schist and fossil fish of
Seefeld.
- Dr. Fitton (the Author).. Address to the Geological Society, 20th
Feb. 1829.
- Asiatic Society of Calcutta Asiatic Researches, vol. xvi. 4to.
- R. I. Murchison, Esq. & }
C. Lyell, Esq.(the Authors) } Memoir on the Excavation of the
Valleys in Central France, 8vo.
- The Society of Arts..... List of Premiums, &c. 1829-30.
- The Society of Antiquaries 200 copies of the Account of St. Mary's
Abbey, from "Vetusta Monumenta "

- Rev. James Dalton..... Joannis Hedwigii Hist. Nat. Muscorum
frondentium, 4to. (coloured plates.)
- T. Maxon, Esq..... } Knollys' Historie of the Turkes, fol.
1638.
Yorkshire Magazine, published 1786-7.

NOVEMBER.

- M. Omalius d'Halloy, }
(the Author) } Mémoires Géologiques sur les Pays bas.
- The Editors..... } Edinburgh Journal of Natural and
Geographical Science, No. 1.
- York Mechanics' Institute.. } Catalogue of the Library, &c.

DECEMBER.

- Rev. S. Creyke..... } Moll's Atlas of England & Wales, 1724.
Hooke's Micrographia, fol.
- Mr. Copsie..... } Ray's Discourses, 8vo.
Alston's Tirocinium Botanicum, 8vo.
Plot's Natural History of Oxfordshire.
- John Murray, Esq. }
(the Author) } Manual of Chemical Experiments, 12mo.
On Aërial Electricity, 12mo.
- Professor Necker, }
(the Author) } Mémoire sur la Vallée de Valorsine.
— sur le cuivre hydro-siliceux.

1830.

JANUARY.

- Prof. Von Martius, }
(the Author) } Reisen in Brazilien, 4to.
- Geological Society..... } Abstract of the Proceedings of the
Society, May 15th to June 19th, 1829.

- Rev. H. J. Todd.....
- Account and Engravings of the Temple Church, from "Vetusta Monumenta."
 - Puteus Sacer Agri Bononiensis, illustratus à P. M. Paciaudio, 4to. Romæ, 1756.
 - Fabricii Bibliotheca Antiquaria, 4to. Hamburgi, 1760.
 - Knight on the Principles of Taste, 8vo.
 - Gorham's History of St. Neot's, 8vo.
 - Moseley's Essay on Archery, 8vo.

PRINTS AND MAPS.

1829.

FEBRUARY.

- Godfrey Higgins, Esq.... Potamology, a description of Rivers.

MARCH.

- W. C. Trevelyan, Esq.... 2 Prints of Ancient Sculpture in Bridlington Priory Church.

- R. D. Chantrell, Esq.....
- Lithographic Print of an early Gothic Arch, discovered in the excavations of St. Mary's Abbey.

OCTOBER.

- Rev. Dr. Buckland.....
- Lithographic Prints of the skeleton of the megatherium of Madrid ;—of the dapedium politum, pentacrinite, and ichthyosaurus intermedius, Lyme Regis.

1830.

JANUARY.

- John Bland, Esq..... Map of Germany.
- Mr. Allis..... Print of a trilobite.

BOOKS, &c. PURCHASED.

Jameson's Mineralogy of the Scottish Isles.

Schlottheim's Petrefactenkünde.

Lamouroux Exposition Méthodique des Genres des Zoophytes.

————— Essai sur les Thalassiophytes.

Lesson Manuel d'Ornithologie.

Rang Manuel des Mollusques.

Fleming's History of British Animals, 8vo.

Stephens's Catalogue of British Insects, 8vo.

————— Nomenclature, 12mo.

Philosophical Transactions, from 1801 to 1807, 4to.

Von Buch's Geological Map of Germany.

SUBSCRIBING MEMBERS

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Alexander, Edward N. *Halifax.*

Anderson, Robert H. *York.*

Bealby, Varley, *York.*

Bland, Capt. Henry J. *Hon. E. I. Company's Service.*

Blanshard, William, *York.*

Childers, Samuel W. *Cantley, near Doncaster.*

Crompton, Joshua, *Esholt Hall, Otley.*

Day, Edward, *York.*

Forth, Frederick W. *York.*

Hey, Richard, *York.*

Hindsley, George, *York.*

Husband, William, M. D. *York.*

Laycock, Thomas, *Nun-Appleton.*

Markham, Rev. David, *Stillingfleet.*

Mason, Thomas, *York.*

Newton, Henry, *York.*

Phillips, John, F. G. S. *York.*

Priestman, David, *York.*

Ramsden, Rev. Henry, *Cherry Burton, Beverley.*

Reynolds, Robert, *York*.

Roundell, Richard H. *Gledstone Hall, Skipton*.

Spence, Henry R. *Elvington*.

Watkinson, John, *York*.

Whytehead, William, jun. *York*.

Woodall, John, jun. *Scarborough*.

HONORARY MEMBERS.

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Rev. William Turner, *Secretary and Lecturer of the Literary and Philosophical Society of Newcastle*.

FOREIGN HONORARY MEMBER.

Baron Audebard de Ferussac, *Paris*.

ABSTRACT OF THE LAWS

OF THE SOCIETY,

RELATING TO THE PRIVILEGES, ELECTION, AND PAYMENTS OF

Members.

The PROPERTY of the Society is vested in the Subscribing Members collectively.—Every Subscribing Member has a right to attend and vote at the GENERAL MEETINGS of the Society, and is eligible to all its offices. He has access to the MUSEUM and GARDENS, with the power of introducing Visitors, and of giving written orders of admission to strangers, which must be signed with his name, and bear the name of the person to be admitted. He has the use of the LIBRARY, with the privilege of taking out Books. The adult MEMBERS OF HIS FAMILY, residing under his roof, are entitled to personal admission to the Museum and Gardens.

A new Member may be balloted for at any one of the General Meetings of the Society, which are held on the first Tuesdays of January, February, March, April, July, October, November, and December. His recommendation, signed by three Subscribing Members, must be put up in the Library, a week previous to the ballot.

Each Member, on his admission, pays to the Treasurer FIVE POUNDS; and on every first day of January following, an Annual Subscription of TWO POUNDS, if resident within the County; or if permanently residing out of the County, an Annual Subscription of ONE POUND. A member may compound at any time for his Annual Subscriptions, by a payment of TWENTY POUNDS.

PRIVILEGES OF

Contributors to the Building Fund.

*At a SPECIAL GENERAL MEETING of the YORKSHIRE
PHILOSOPHICAL SOCIETY, held May 2nd, 1825,*

RESOLVED :—That the following PRIVILEGES be given to Contributors to the Building Fund, who are not members of the Society :—

1. A Contribution of FIFTY Pounds and upwards, shall entitle the Contributor, for life, to personal admission to the MUSEUM, with the power of introducing Visitors ; and to personal admission to the LIBRARY, and to the scientific proceedings of the GENERAL MEETINGS.

2. A Contribution of TWENTY-FIVE Pounds and upwards, shall entitle to personal admission, for life, to the MUSEUM, with the power of introducing Visitors ; and to personal admission to the LIBRARY.

3. A Contribution of FIFTEEN Pounds and upwards, shall entitle to personal admission, for life, to the MUSEUM, with the power of introducing Visitors.

4. A LADY contributing TEN Pounds shall be entitled to personal admission, for life, to the MUSEUM, with the power of introducing Ladies as Visitors.

5. A Contributor of FIFTEEN Pounds and upwards, may, at any future time, (on being duly balloted for,) be admitted a MEMBER of the SOCIETY, without payment of Admission Money.

At the ANNUAL MEETING of the Society, held February 2, 1830 :

RESOLVED :—1. That Contributors of FIFTY Pounds shall be allowed to give to occasional Visitors written orders of admission to the Museum and Gardens, signed with the Contributor's name and bearing the name of the person to be admitted.

2. That the adult members of the FAMILY of a Contributor of FIFTY Pounds, residing under his roof, shall be admitted without an order.

PRIVILEGES OF

Ladies being Annual Subscribers.

At the ANNUAL MEETING of the Society, held Feb. 2nd, 1830 :

RESOLVED :—That LADIES may be admitted by the Council to become ANNUAL SUBSCRIBERS to the Museum and Garden : and that a payment of ONE POUND shall entitle the Subscriber to have access thereto for the current year, and also personally to introduce her female friends as occasional Visitors.

YORKSHIRE MUSEUM.

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TO THE BUILDING FUND,

FROM THE COMMENCEMENT OF THE UNDERTAKING TO JANUARY 1ST, 1830.

	£.	s.		£.	s.
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——SECOND SUBSCRIPTION (1829)	100	0	Alexander, Wm. and Son, <i>York</i>	10	10
His Grace the Duke of Norfolk	50	0	—— SECOND SUBSCRIPTION (1829)	5	0
Earl Fitzwilliam	300	0	Allen, Oswald, <i>York</i>	10	10
Earl of Egremont	100	0	Anderson, Rev. Sir C. Bart, <i>Lea</i>	20	0
Earl of Tyrconnel	21	0	Atcheson, Rev. Henry, <i>London</i>	10	10
Viscount Morpeth	20	0	—— SECOND SUBSCRIPTION (1829)	5	5
Viscount Milton	50	0	Atkinson, James, <i>York</i>	10	10
Viscount Downe	50	0	—— SECOND SUBSCRIPTION (1829)	5	5
Lord Stourton	50	0	Atkinson, John B. <i>York</i>	15	0
Lord Grantham	100	0			
Lord Middleton	100	0	Backhouse, James, <i>York</i>	10	0
Lord Dundas	52	10	Backhouse, Thomas, <i>York</i>	10	10
Lord Wharnccliffe	50	0	Baines, H. J. <i>Bell Hall</i>	15	0
Lord Feversham	100	0	Barber, Cattle, and North, <i>York</i>	15	0
Lord Hotham	50	0	Barclay, Alexander, <i>York</i>	1	0
Lord Macdonald	50	0	Barnes, Rev. Theophilus, <i>Castleford</i>	5	0
The Dean of York	50	0	Barstow, Thomas, <i>Naburn</i>	15	0
The Corporation of York	200	0	—— SECOND SUBSCRIPTION (1829)	5	5
John Hutton, Esq. <i>Marske</i> , High			Bathurst, Rev. W. H. <i>Barwick</i>	10	10
Sheriff of Yorkshire, 1825	100	0	Beckwith, Stephen, M.D. <i>York</i>	10	10
Hon. M. Langley, High Sheriff of			Beckwith, Francis, <i>London</i>	20	0
Yorkshire, 1826	100	0	Belcombe, H. S., M.D. <i>York</i>	10	10
Messrs. Swann, Clough, and Co.	300	0	Bell, John, <i>York</i>	10	10

	£.	s.		£.	s.
Bethell, Richard, <i>Rise</i>	50	0	Croft, Harry, <i>Stillington</i>	25	0
Blanchard, John, <i>York</i>	5	5	Croft, Rev. R. <i>Rowley</i>	25	0
Bland, T. Davison, <i>Kippax</i>	25	0	Crompton, Joshua, <i>Esholt</i>	50	0
Bland, J. <i>Liverpool</i>	10	0	Crompton, Samuel, M. P. <i>Wood End</i>	30	0
Bilton, William	10	10	Crompton, W. Rookes, <i>Sion Hill</i>	20	0
— SECOND SUBSCRIPTION	5	5	Crosse, John, <i>Hull</i>	5	5
Bower, Robert, jun. <i>Sutton Cottage</i>	25	0	Currer, Rev. D. R. <i>Clifton House</i>	25	0
Bower, Rev. J. W. <i>Welham</i>	15	0	Currer, Miss, <i>Eshton Hall</i>	25	0
Bower, G. H. <i>Welham</i>	15	0			
Briggs, William, <i>Clifton</i>	15	0	Dallin, Rev. James, <i>York</i>	5	5
Brooksbank, Miss, <i>Lilling Hall</i>	10	0	Dalton, Rev. James, <i>Croft</i>	10	0
Brown, George, <i>Castlegate, York</i>	5	5	Dalton, John, <i>Sleningford</i>	50	0
Brown, John F. <i>York</i>	10	10	Dalton, Richard, <i>York</i>	10	0
Bulmer, John, <i>York</i>	15	0	Danby, W. <i>Swinton Park</i>	50	0
Bulmer, Rev. William, <i>York</i>	5	5	— SECOND SUBSCRIPTION	20	0
Burnell, Martin, <i>Copmanthorpe</i>	10	10	— THIRD SUBSCRIPTION	25	0
			Davies, Robert, <i>York</i>	5	5
Cattle, Mr. Sheriff, <i>York</i>	15	0	Dealtry, Benj. <i>Lofthouse Hall</i>	10	10
Cattley, Miss, <i>York</i>	10	0	Denison, R. <i>Kilwick Percy (dec.)</i>	30	0
Cayley, Sir G. Bart. <i>Brompton</i>	50	0	Denison, Robert, jun.	20	0
Cayley, E. S. <i>Wydale</i>	10	0	Dikes, W. H. <i>Hull</i>	5	5
Chaloner, Robert, <i>Guisbro'</i>	50	0	Dixon, Rev. W. H. <i>Bishophorpe</i>	25	0
Champney, George, <i>York</i>	10	10	— SECOND SUBSCRIPTION (1829)	5	5
Chivers, Thomas (<i>deceased</i>)	21	0	Dodsworth, Sir E. Bart. <i>Newland Hall</i>	25	0
Cholmeley, Francis, <i>Brandsby</i>	50	0	Drake, Rev. Dr. <i>Langton</i>	10	10
— SECOND SUBSCRIPTION (1829)	10	0	Drake, Richard (<i>deceased</i>)	10	10
Cholmley, George, <i>Howsham</i>	50	0	Drury, G. V. <i>Rose Cottage</i>	10	10
Chorley, E., M.D. <i>Doncaster</i>	10	10	Dudley, Miss, <i>York</i>	10	0
Clarkson, B. <i>Kirkham Abbey</i>	25	0	Duffin, William, <i>York</i>	20	0
Coates, Mrs. <i>Heslington</i>	20	0	Duncombe, Hon. William, M.P.	30	0
Collins, Rev. T. <i>Knaresborough</i>	10	0	Dundas, Hon. Sir R. L., K.C.B.	50	0
Constable, Sir C. Bt. <i>Burton Constable</i>	50	0	Duan, Mrs. <i>York</i>	10	0
Cooke, Sir W. B. Bart. <i>Wheatley</i>	25	0			
Cooke, P. Davies, <i>Owston</i>	25	0	Edmunds, F. O. <i>Warmsworth</i>	25	0
Copley, E. T. <i>Halnaby</i>	20	0	Ellison, John, <i>York</i>	15	0
— SECOND SUBSCRIPTION	10	0	Ellison, Richard, jun. <i>Beverley</i>	21	0
Copsie, F. J. <i>York</i>	15	0	— SECOND SUBSCRIPTION	26	5
Cracroft, R. <i>Hackthorn, Lincolnsh.</i>	15	0	Etridge, Thomas, <i>York</i>	5	5
Creyke, Ralph, <i>Rawcliffe (dec.)</i>	25	0	— SECOND SUBSCRIPTION	10	0

	£. s.		£. s.
Eyre, Rev. Archdeacon	25 0	Harwood, John, <i>York</i>	5 5
Fairfax, C. G. <i>Gilling Castle</i>	25 0	Hawksworth, Mrs. <i>York</i>	10 0
Fawkes, F. H. <i>Farnley</i>	50 0	Hearon, W. H. (Lord Mayor 1827)	20 0
Flounders, Benjamin, <i>Yarm</i>	15 0	Henwood, Henry (<i>deceased</i>)	10 10
Flounders, Miss, <i>Yarm</i>	10 0	Higgins, Godfrey, <i>Skellow Grange</i>	25 0
Fothergill, Elizabeth	10 0	Hildyard, J. B. <i>Stokesley</i>	25 0
Fox, G. T. <i>Durham</i>	5 0	Hornby, R. W. B. <i>York</i>	25 0
Fox, Rev. T. L.	10 0	Hornor, Benjamin, <i>Fulford Grange</i>	10 10
Frankland, Sir T. Bart. <i>Thirleby</i>	10 0	Howard, Hon. and Rev. H. <i>Sutton</i>	20 0
Fripp, W. B. <i>Bristol</i>	2 0	— SECOND SUBSCRIPTION	10 0
Frost, Charles, <i>Hull</i>	5 0	Hudson, George, <i>York</i>	25 0
Garforth, William (<i>deceased</i>)	50 0	Hustler, John, <i>Undercliffe</i>	50 0
Gascoigne, R. O. <i>Parlington</i>	50 0	Hustler, John, jun. <i>Bradford</i>	21 0
Gastaldi, Charles	10 0	Hutton, John, <i>Sobergate</i>	25 0
Goldie, George, M. D. <i>York</i>	10 10	Ibbetson, Sir Charles, Bart. <i>Denton</i>	25 0
— SECOND SUBSCRIPTION (1829)	5 5	Jefferson, J. D. <i>Thorganby</i>	25 0
Gott, B. <i>Armley House</i>	50 0	Johnstone, Sir J. V. B. Bart.	50 0
Graham, Rev. John, <i>York</i>	10 10	Kendall, Rev. F. <i>Riccall</i>	5 0
Graham, Rev. J. B. <i>York</i>	10 10	Kenrick, Rev. J. <i>York</i>	10 10
Graham, Hewley, <i>York</i>	15 0	— SECOND SUBSCRIPTION (1829)	5 5
Gray, William, <i>York</i>	30 0	Key, Miss Ann, <i>Fulford</i>	20 0
Gray, William, jun. <i>York</i>	5 5	Key, Miss Eleanor	15 0
Gray, Jonathan, <i>York</i>	25 0	Key, Miss Elizabeth	15 0
— SECOND SUBSCRIPTION (1829)	15 0	Kilvington, Rev. E. <i>Ripon</i>	20 0
Gray, Rev. E. <i>Kirbymoorside</i>	15 0	— SECOND SUBSCRIPTION	5 0
Greame, John, <i>Sewerby</i>	25 0	Kirby, William, <i>York</i>	5 5
Greame, Yarbrough	20 0	Knight, H. G. <i>Firbeck Hall</i>	25 0
Grimston, C. <i>Grimston Garth</i>	25 0	Langdale, Hon. Charles, <i>Houghton</i>	25 0
Hailstone, Samuel, <i>Croft House</i>	15 15	Lawley, Francis, M.P.	21 0
Hailstone, Rev. J. <i>Trumpington</i>	15 0	Lawrence, Mrs. <i>Studley Park</i>	50 0
Hall, William (<i>deceased</i>)	15 0	Lawson, Andrew, <i>Aldborough</i>	20 0
Hamerton, J. <i>Hellifield Peel</i>	5 0	Lawson, Sir H. Bart. <i>Brough Hall</i>	21 0
Hargrove and Co. <i>York</i>	5 5	Lawton, George, <i>York</i>	5 5
Harland, W. C. <i>Sutton Hall</i>	25 0	Leatham, J. A. <i>Heath</i>	15 0
Hartley, G. <i>Middleton Lodge</i>	25 0		

	£. s.		£. s.
Leatham, W. H. <i>Heath</i>	15 0	Preston, Henry, <i>Moreby</i>	50 0
Lloyd, Mrs. Ann, <i>York</i>	5 0	Pritchett, J. P. <i>York</i>	5 5
Lloyd, Colonel (<i>deceased</i>)	25 0		
Lloyd, George, <i>Acomb</i>	20 0	Raikes, Robert, <i>Welton House</i>	25 0
Lloyd, George	20 0	Rawdon, Miss, <i>York</i>	15 0
Lowther, Sir John, Bart., M.P.	50 0	Rayment, Rev. Benedict, <i>York</i>	15 0
		Read, Rev. T. C. R. <i>Sand-Hutton</i>	25 0
Markham, Rev. Archdeacon	50 0	— SECOND SUBSCRIPTION (1829)	10 0
Marshall, John, M. P. <i>Headingley</i>	50 0	Rhodes, Miss, <i>Park Place, Leeds</i>	20 0
Marshall, W. <i>Newton Kyme</i>	50 0	Robinson, Charles, <i>York</i>	5 5
— SECOND SUBSCRIPTION (1829)	20 0	Robinson, Henry, <i>York</i>	15 15
Maude, Francis, <i>Haatfield Hall</i>	10 0	Russell, James, <i>York</i>	10 10
— SECOND SUBSCRIPTION	5 0	Russell, David, <i>York</i>	25 0
Maxwell, W. C. <i>Everingham</i>	50 0		
Meynell, George, <i>York</i>	10 10	Salmond, William	10 10
— SECOND SUBSCRIPTION (1829)	5 5	Simpson, Thomas, M.D. <i>York</i>	21 0
Mills, Joshua, <i>York</i>	10 10	Sinclair, R. Recorder of <i>York (dec.)</i>	20 0
Monson, Hon. and Rev. T. <i>Bedale</i>	15 0	Slingsby, Sir T. Bart. <i>Scriven</i>	50 0
Morris, Mrs. <i>York</i>	10 0	Smith, Mr. Alderman, <i>York</i>	25 0
Morritt, Mrs.	10 0	Smith, Miss M. W.	15 0
Murray, Lindley (<i>deceased</i>)	25 0	Spencer, Isaac, jun. <i>York</i>	10 10
Nicholson, R. <i>York</i>	25 0	Standish, Henry, <i>Doncaster</i>	15 0
Norcliffe, Mrs. <i>Langton</i>	10 0	Stanhope, Spencer, <i>Cannon Hall</i>	25 0
Norcliffe, Norcliffe	25 0	Stapleton, Miles, <i>Carlton</i>	25 0
		Stapleton, Thomas, <i>Grove, Richmond</i>	15 0
Oldfield, W. (Lord Mayor 1825)	50 0	Stapylton, Martin, <i>Myton</i>	50 0
Osbaldeston, Humphrey, <i>Hunmanby</i>	50 0	Stapylton, Stapylton, <i>Wass</i>	50 0
— SECOND SUBSCRIPTION (1829)	25 0	Stourton, Hon. Phillip, <i>Haslewood</i>	25 0
Osbaldeston, Miss	50 0	Strickland, Eustachius, <i>York</i>	10 10
— SECOND SUBSCRIPTION (1829)	25 0	— SECOND SUBSCRIPTION (1829)	5 5
Overton, Rev. John, <i>York</i>	15 0	Strickland, George, <i>Newton</i>	21 0
		Strickland, Walter, <i>Cokethorpe, Oxon.</i>	5 0
Pemberton, John, <i>Durham</i>	25 0	Strangways, E. S. <i>Alne</i>	10 10
Petre, Hon. E. R. <i>Stapleton Park</i>	52 10	Sykes, Rev. Christopher, <i>Rooss</i>	10 10
Pickard, Rev. W. L. <i>York</i>	10 10		
— SECOND SUBSCRIPTION (1829)	10 0	Taylor, Edward, <i>Easthorpe</i>	10 10
Place, T. H. <i>Skelton</i>	15 0	Taylor, John, <i>York</i>	5 5
Prest, Edward, <i>Heslington</i>	15 0	Taylor, Michael, <i>York</i>	10 10
Prest, Henry (<i>deceased</i>)	15 0	Terry, John, <i>Hull</i>	5 0

	£.	s.		£.	s.
Thompson, G. L., M.P. <i>Sheriff-hutton</i>	25	0	Watson, P. W. <i>Cottingham</i>	5	5
Thompson, R. J. <i>Kirby Hall</i>	50	0	Wellbeloved, Rev. C. <i>York</i>	10	10
Thompson, Rev. R. S. <i>Bilbrough</i>	10	10	— SECOND SUBSCRIPTION (1829)	5	5
Thompson, William, <i>York</i>	5	5	Wharton, John T. <i>Aberford</i>	10	10
Thorpe, Anthony, <i>York</i>	25	0	Whittell, J. F. <i>Helmsley Lodge</i>	15	15
Todd, J. and G. <i>York</i>	10	10	Whytehead, H. Y., M.D.	15	0
Tuke, Daniel, <i>York</i>	21	0	Wilberforce, William	21	0
— SECOND SUBSCRIPTION (1829)	4	0	Wilkinson, George, <i>Thorp-Arch</i>	15	0
Tuke, John, <i>York</i>	5	5	Willoughby, H., M.P. <i>Settrington</i>	15	0
Tuke, Samuel, <i>York</i>	25	0	Wilson, James, M.P. <i>Sneaton Castle</i>	50	0
Turner, Rev. W. jun.	10	10	Wilson, John, <i>Sheffield</i>	3	0
Tweedy, J. D. <i>Halifax</i>	21	0	Wilson, Joseph B. <i>York</i>	15	0
			Wilson, M. <i>Eshton Hall</i>	25	0
Vansittart, Henry, <i>Kirkleatham</i>	50	0	Wilson, R. F., M.P. <i>Melton</i>	50	0
Vavasour, Sir H. M. Bart. <i>Melbourn</i>	25	0	Wilson, Thomas W. <i>York</i>	15	0
Vavasour, Hon. Sir E. M. Bart.			Winn, Charles, <i>Nostell Priory</i>	50	0
<i>Haslewood</i>	25	0	Wolstenholme, John, <i>York</i>	5	5
Vernon, Rev. C. V. <i>Rothbury</i>	10	10	Wood, Sir F. L. Bart. <i>Hemsworth</i>	50	0
— SECOND SUBSCRIPTION (1829)	10	0	Wormald, Richard, <i>York</i>	15	0
Vernon, Egerton V.	10	10	Worsley, William, <i>Hovingham</i>	20	0
Vernon, Granville V. <i>Grove, Notts.</i>	10	10	Wrangham, Rev. Archdeacon	10	10
Vernon, Colonel H. V.	25	0	Wright, William, <i>York</i>	5	5
Vernon, Rev. Archdeacon	20	0	— SECOND SUBSCRIPTION (1829)	5	5
Vernon, Rev. W. V. <i>Wheldrake</i>	50	0			
— SECOND SUBSCRIPTION (1829)	25	0	Yarburgh, Henry, <i>Heslington (dec.)</i>	50	0
			Yarburgh, N. E. <i>Heslington</i>	25	0
Wake, Baldwin, M.D. <i>York</i>	10	10	— SECOND SUBSCRIPTION (1829)	25	0
Wasse, J., M.D. <i>Moat Hall</i>	10	10	Yorke, John, <i>Bewerley</i>	25	0

AMOUNT to 1st January, 1830..... 7775*l.* 10*s.*

RENEWED SUBSCRIPTION, 1830.

The following Subscriptions have been received since the Annual Meeting:

	£.	s.
Rev. William V. Vernon, <i>THIRD SUBSCRIPTION</i> . . .	25	0
N. E. Yarburgh, <i>THIRD SUBSCRIPTION</i> . . .	25	0
P. Beilby Thompson, M.P. (in addition to £50 formerly presented to the Society, and applied towards the purchase of a collection of coins) }	25	0
William Gray, <i>York, SECOND SUBSCRIPTION</i> . . .	20	0
Jonathan Gray, <i>York, THIRD SUBSCRIPTION</i> . . .	15	0
Capt. H. J. Bland	25	0
J. F. Brown, <i>York, SECOND SUBSCRIPTION</i> . . .	5	0
Rev. S. Creyke, <i>York</i>	5	0
J. and G. Todd, <i>York, SECOND SUBSCRIPTION</i> . . .	5	5
Miss Bayldon, <i>York</i>	10	0
Martin Burnell, <i>Copmanthorpe, SECOND SUBSCRIPTION</i> . . .	5	0
Henry Harris, <i>Bradford</i>	10	10
John Bleckly, <i>York</i>	2	2
Yarburgh Greame, <i>Sewerby, SECOND SUBSCRIPTION</i> . . .	5	0
Rev. E. Kilvington, <i>Ripon, THIRD SUBSCRIPTION</i> . . .	5	0
Harwood and Dale, <i>York</i>	5	5
John Dalton, <i>Steningford, SECOND SUBSCRIPTION</i> . . .	25	0
Henry Willoughby, M.P. <i>Seltrington, SECOND SUBSCRIPTION</i> . . .	5	5
Thomas L. Fairfax, <i>Newton Kyme</i>	10	10
Rev. Dr. Drake, <i>Langton, SECOND SUBSCRIPTION</i> . . .	5	5

ERRATUM.

Page 25, line 1,

For Rev. W. V. Vernon, read Rev. Robert Cooke.

~~1850~~
Wiltshire Philosophical Society.

ANNUAL REPORT

FOR

MDCCCXXX.



ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society

FOR

MDCCCXXX.

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 1st, 1831.



YORK:

PRINTED BY W. ALEXANDER AND SON, CASTLEGATE.

1831.

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OF
The Yorkshire Museum,

APPOINTED BY THE ROYAL GRANT.

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 KEEPER OF THE MUSEUM :

JOHN PHILLIPS, F.G.S.

 SUB - CURATOR :

HENRY BAINES.

R E P O R T

O F

The Council

TO THE ANNUAL MEETING OF THE SOCIETY,

ON THE 1ST OF FEBRUARY, 1831.

IN the last Report of the Council a confident expectation was expressed, that in occupying the NEW MUSEUM, the Society might promise itself, from the enlarged scale of its establishment, a great advancement of its objects, and a wider field of public utility.

The lapse of a year already brings proof that such an expectation was not unfounded; and the Council refer the Meeting for the most striking evidence of the extensive interest excited by the Institution to the fact, that the Admissions of Visitors for nine months during which the books have been regularly kept, have amounted to nearly four thousand, exclusive of the unrecorded visits of the Members and their families.

In the number of those whose curiosity has thus been gratified, or whose investigations have been assisted, there are some from distant countries. And, whether it be desirable

to encourage intellectual commerce and communion, by offering freely to strangers the hospitality of science, or whether any wish be felt to shew the mental cultivation of our country in an advantageous light, it cannot but gratify the Meeting to reflect, that the eye of the scientific traveller has rested, with approbation and profit, on the collections which the Museum now displays. Without forgetting its obligations to the Crown, the Society may be permitted to boast that these collections and the edifice which contains them have not been furnished from the public revenue, nor bestowed by royal munificence; and when it is considered that ONE COUNTY of England has supplied this provision for the advancement of natural knowledge, the survey of foreigners and their estimate of our exertions in the cause of science, may be allowed perhaps to kindle some sentiments of national complacency, and an honest warmth of patriotic pride.

It was not in the hope only of advancing the knowledge of nature by the researches of its members, that this Society was founded. One of its principal objects has always been to give to studies too much neglected a more popular currency and a freer facility of access, to attract attention to philosophical subjects, to awaken scientific curiosity, and afford more ready means of information. This indeed is the charter of the Institution; this is the tenure on which it must rest its most constant claim to public support: on this principle of communicating and diffusing knowledge its rules have been framed; and to this principle the views of the Council have been directed, in all the arrangements which they

have made to meet the altered circumstances in which the establishment is placed.

No considerations either of economy or convenience have been allowed to compete with the purpose of public instruction. To exhibit every thing which the Society possesses, with the exception only of its Books and Coins, as completely and constantly as possible, is the object which has been kept in view.

The admission of visitors has been made more open and unreserved than is perhaps the usual practice of similar Institutions; and the Council have the satisfaction to add, that no loss or injury whatever has hitherto been sustained, from following this liberal course. On the other hand, if among the many thousand persons who have visited our Museum, there are those whose inspection of its contents has either promoted their enquiries, or diverted them from less elevated and beneficial pursuits to feel an interest in any part of the mechanism of nature, the object of the Society is so far attained.

Neither is such a system altogether unfruitful in enriching the Institution itself, and producing the remuneration of a corresponding return. The attention of the public is thus directed to its objects and wants; the liberality of its admissions is repaid with interest; its collections are remembered by distant friends; the stranger is heard from again as a benefactor, and the hoard of the private collector yields up something to the public use.

Whilst these feelings operate on the casual visitor, the members of the Society also are more assiduous in bestowing gifts upon an establishment which displays them to so much advantage. Spacious accommodations are not without a powerful effect in inviting contributions. No man is pleased to find that his donations have been consigned to obscurity. Nor is this a mortification only to an idle vanity; but the donor who is influenced by higher motives may justly expect that what he bestows from a principle of public spirit, shall be applied effectively to the public advantage. And thus a perfect system of exhibition, however costly, compensates its expenses by its fruits; and those scientific arrangements and elaborate catalogues which the Keeper of the Museum is employed in making, to interpret its contents, will be found to avail equally in rendering it at the same time popular and instructive.

The most striking tribute which has been offered to the Society's enlarged means of exhibition, is the donation which the Curator of Entomology¹ has made of his whole private collection of British Insects. Fifteen hundred specimens in excellent preservation have thus been added to the means already provided for studying these minute productions of nature. It is not often that a collection of so much interest is given away by the hand which formed it; and in the sacrifice of these valuable fruits of a long cherished pursuit to a public repository, the Meeting will not fail to recognize a proof not only of the uncommon liberality of the donor, but of the high estimation in which the Museum is held.

¹Thomas Backhouse, Esq.

In recording this present, the Council may be allowed perhaps to add a remark upon the merits of the system which this Society has adopted, in appointing several Curators to take charge of the several scientific collections. The interest which this system creates in promoting the improvement of the collections is satisfactorily shewn in the present contribution, in those which have been so liberally advanced to the library¹ and the garden,² and in the valuable deposit, for the Society's use, of the collection belonging to the Curator of comparative anatomy.³ These appointments are likewise of essential utility, both in attracting the specific attention of particular members to a particular province of science, and in lightening the extensive and still extending labours of the general Curator.

In surveying the lists of donations which are now presented to the Meeting, it will be apparent that the gifts bestowed on every department of the Museum during the past year, have been more than ever valuable and abundant.

Among the most important additions to the GEOLOGICAL COLLECTION, are those which illustrate the organic remains contained in the beds belonging to the series of *carboniferous* and *transition* limestones. The transition fossils from Norway,⁴ together with those from Herefordshire,⁵ in which is included the radius of a *Balistes*; the numerous specimens collected from the Mountain Limestone series of Northum-

¹ By Eustachius Strickland, Esq. ² By the Rev. W. Hincks, ³ J. Atkinson, Esq.

⁴ Presented by the Countess of Denbigh. ⁵ By the Rev. T. Lewis.

berland,¹ several of which are undescribed species; with those which have been obtained from the same series in Craven,² have added considerable information respecting the lowest of the fossil-bearing strata. Nevertheless the Council beg leave to call the attention of the geological members of the Society to the necessity for further labours in this field. The beds of limestone and shale which traverse the western parts of this county have not yet been adequately examined; and such labours would probably not only enrich the Museum with new and rare specimens, but set at rest some important theoretical questions, of which a satisfactory solution can only be obtained from closer research and a more copious induction of facts.

Madrepores and crinoidal specimens of great beauty have been furnished from the oolitic rocks of Somersetshire and Wiltshire,³ and in conjunction with the discoveries of saurian teeth, and fish palates in the Forest Marble⁴ and Cornbrash⁵ of Yorkshire, have supplied additional means of comparing the character of the extreme points to which in England those strata extend; the *Astaci* likewise, which have been found in the Cornbrash at Scarborough,⁶ complete the evidence of the close resemblance in all the conchiferous beds of that series; and the detection of plants in the Forest Marble,⁷ and in beds intervening between it and the Bath Oolite,⁸ the same as those which occur above and below them,

¹ By the Rev. C. Vernon. ² By C. Preston, Esq. ³ By — Loscombe, Esq.
⁴ By F. Cholmeley, Esq. ⁵ By Miss Louisa Belcombe. ⁶ Presented by Mr. Dunn.
⁷ By Mr. Phillips. ⁸ By the Rev. W. Vernon.

shew the continuous similarity of this portion of the ancient Flora.

In Fossil Botany also, the transparent sections¹ which have been no less beautifully executed than ingeniously devised, to illustrate such analogies or differences as can be perceived in the structure of primeval and existing vegetation, are well worthy the attention of the Meeting. And in the comparative anatomy of fossils, a valuable accession has accrued to the display of an extinct race of animals by whom the earth was inhabited at some remote and as yet undetermined era, in the head and horns of the gigantic Irish Elk.²

The Council, in concluding their remarks upon the geological contributions, cannot pass over in silence the last donation to this Museum from one who had in it a paternal interest.—MR. THORPE was among the first three founders of the original collection; he was one of those whose liberal spirit planted the germ which has since produced such abundant fruit in the now extensive geological treasures of this Society; and his name deserves to stand upon its records as that of a man who, when the interest of the extraordinary discoveries at Kirkdale was at its height, in giving his own collection of those rare remains, saw and embraced the proper moment for effecting by a personal sacrifice an important public object.

¹ Presented by H. Witham, Esq. with his work explanatory of the subject.

² Presented by F. H. Fawkes, Esq.

The most considerable MINERALOGICAL donations of the year have been two large contributions, consisting together of one hundred and eighty six specimens, from a member¹ to whom the Society's Museum has been under repeated obligations,—a meteoric stone which fell at Juvenas in France, in June 1821,² given to the donor by M. Alex. de Humboldt, entire, and completely coated with the glaze peculiar to these singular substances,—a new ore of lead from Cumberland,³—and an undescribed mineral which came among several silver ores from Columbia,⁴ and which appears from the analysis to which it has been subjected, to be a compound of mercury, sulphur, and selenium. Specimens also which have been presented,⁵ of laminated blende forming septa in the argillaceous nodules of several beds in the oolitic series, are of interest as shewing a mineralogical analogy between these and the lias strata, in the fossils of which the presence of this mineral has before been noticed.

Among the ZOOLOGICAL acquisitions, besides the collection of Insects already noticed, there have been added many interesting specimens of Fishes, Reptiles and Birds. With respect to the Society's collection of British Birds, it may be worth while to observe that it is principally deficient in the most common kinds; and the Curator has reported this deficiency in the hope that it may speedily be supplied by the friends of the Institution. The Council would also call the attention of the meeting to a donation⁶ of the

¹ W. Danby, Esq. ² Presented by the Rev. W. Vernon. ³ By Sir J.V.B. Johnstone, Bart. ⁴ Presented by Thomas Richardson, Esq. analysed by the Rev. W. Vernon.

⁵ By the Rev. W. Vernon. ⁶ By E. Strickland, Esq.

skeletons of various species of birds. Such illustrations of the structure of the animal frame are very serviceable to the lecturer in natural history, and it is much to be wished that they may be so multiplied as to form, conjointly with the collection deposited in the Museum by the Curator of comparative anatomy, a series more completely instructive to the student.

It has been thought by some members of the Society, who take an interest in Zoology, that it would be a valuable improvement to this department, if in addition to the stuffed specimens of the cabinet, a limited collection of living animals could be maintained in the grounds. That the experiment, however, might entail no charge upon the Society, a small private fund has been raised to defray the expense of it; a few purchases have been made, and some valuable donations received.

The arrangement of the GARDEN has been completed by covering the walks with gravel, and introducing a regular supply of river water. The exertions of the Sub-curator in promoting the objects and interests of the Society, both here and in the Museum, have been highly satisfactory. Considerable progress has been made in forming a collection of hardy herbaceous plants, which are disposed in an order of natural groups; and many liberal contributions have been received. Two more Herbariums have been added to the dried specimens in the custody of the Botanical Curator,

of which one consists of Indian plants,¹ and the other was collected in Germany.²

To the donor of the latter the Society has been under numerous obligations; but the munificent present which he has this year made to the LIBRARY deserves particular notice; a present consisting of costly and useful books on various subjects of natural history and philosophy, amounting to no less a number than two hundred volumes. The Council has also to acknowledge the honor of having received copies of several new works from their ingenious Authors, and of having been favored with the publications of many learned bodies, in particular with the Reports of the Literary and Philosophical Societies of Leeds and Newcastle; the Abstracts of the Proceedings of the Geological Society of London; the Transactions of the Society of Arts, of the Royal Asiatic Society, and the Asiatic Society of Bengal; and the Archæologia of the Antiquarian Society of Newcastle.

Lastly, to the cabinet of ANTIQUITIES, and to the collection, if collection it can yet be called, of PHILOSOPHICAL APPARATUS, some valuable additions have been made. Of the former the most remarkable are the various relics of ancient superstition, combined with ancient art and learning, which have been brought by the donor³ from the catacombs of Thebes in upper Egypt. The latter consist of an

¹ Presented by the Rev. J. Graham. ² Presented by S. Stapylton, Esq.

³ Col. H. Vernon.

achromatic microscope,¹ a large electrical battery,² and a new discharging electrometer.³

The GENERAL MEETINGS of the Society have continued to derive interest from the philosophical and antiquarian researches communicated by the members;⁴ and the accommodation of the Council room has been allowed to evening parties which assemble for similar purposes of scientific intercourse. A gratuitous EVENING LECTURE ON GEOLOGY was delivered to the Members and their friends by Mr. Phillips, at the season when the business of the spring assizes collects the county together; and it was attended by a very crowded audience. Three COURSES OF LECTURES have also been given during the year to subscribers; the subject of the first⁵ was the Structure of Animals, in relation to their habits of life; the second⁶ embraced the general principles of Botanical Science, and the third⁷ the phenomena of Electricity and Galvanism. On none of these lectures was any loss sustained by the Society; and of the course upon Botany the entire profits were transferred by the liberality of the lecturer to the use of the garden. The produce of the lectures given by the Keeper of the Museum was assigned by the Council to himself; and this arrangement was received with a satisfaction which manifested itself in a numerous attendance on the course. He proposes in the ensuing season to continue the subject, to develope in fuller

¹ Presented by S. Stapylton, Esq. ² By Mr. W. Gray, jun.

³ Presented by the Rev. Wm. Taylor. ⁴ See list of Communications, page 23.

⁵ Delivered by Mr. Phillips. ⁶ By the Rev. W. Hincks, F. L. S.

⁷ By J. Murray, Esq. F. S. A. &c. &c.

detail the principles of construction with reference to which the organs of animal sense and motion have been contrived, and to describe the mechanical and physical methods employed by the wisdom of the Creator, in producing the multiplied varieties of movement in the limbs, and the delicate adjustments of vision in the eye.¹

The Council consider it as the most gratifying communication which they have to make to the Meeting, that the time is arrived, at which they can properly propose an advance of salary to this able and devoted Officer of the Society, which is due not only to the merits of the individual, but to the interests of the Institution. Such has now become the prosperous state of the annual income, that after the salary of the Keeper of the Museum shall have been advanced, and all the necessary expenses of the establishment defrayed, enough will remain to meet the interest of the debt under which the Society still labours, and to afford means for paying off the principal by slow degrees.

The appeal which was made in the last Report to the liberality of the public, produced additional donations to the amount of 660*l.* Of this sum, about 460*l.* has been applied to defray the expenses incurred since that Report, in the transfer of the Society's collections and the occupation of the new Museum, including some charges connected with the Garden. The remainder, together with the surplus of the year's income;

¹ In consequence of other engagements, Mr. Phillips has since determined to withdraw these lectures for the present, and to substitute a course on *GEOLOGY*, which will be delivered in March.

is applicable to the liquidation of the debt. The sum in which, after this reduction, the Society will continue to be indebted to the Bank, is 1306*l.*; and the Council submit to the Meeting the following plan for paying off that account.

They propose to borrow 1300*l.*, at an interest of 4 *per cent.* from such members of the Society as may be willing to lend. The interest upon each loan of 50*l.* would be exactly the sum of a member's annual subscription. By remitting the subscription, therefore, the interest would be paid. In this method of raising the money, there would be a convenience both to the lender and the borrower; since to the former the trouble of an annual account would be saved, whilst the latter would not incur the risk of being called upon to discharge the whole debt at once: and in case of any member's withdrawing his share of the loan, another might be found to supply his place.

In order to shew that the Society possesses the means of acquitting itself by degrees of the principal of the debt, it is necessary to state, in the first place, that the present regular income is 509*l.* a year; and, secondly, to add an account of the annual demands upon that income, and to exhibit the scale by which it is thought that the expenditure may be regulated in future.

The constant and fixed charge upon the Society, arising from parochial rates, rent, wages, and salaries as now proposed to be settled, amounts to 207*l.* The charges which may be computed as unavoidable, or only to be retrenched

from urgent necessity ;—charges for printing and stationery, for purchasing and binding books, for garden labour, fuel, carriage of goods, postage and other incidental expenses, may be stated at 180*l.* Together, then, the whole regular expenditure is 387*l.* which, deducted from an income of 509*l.* leaves a surplus of 122*l.* ; and when from this is taken the interest of the debt, which at 4 per cent is 52*l.*, the real surplus of income is 70*l.* ; a surplus which will admit of paying off one creditor yearly, and leave 20*l.* for the purchase of specimens or apparatus.

Such is the course the Council would recommend, as that which should hereafter be kept steadily in view ; and if they propose any departure from it for the present year, it is only in order to meet an immediate and pressing necessity. The Museum and Library have been fitted up with cases, some for temporary and others for permanent use, but altogether barely sufficient to contain the present collection : more of this expensive furniture already begins to be wanted, and the Council cannot advise supplying this want by a system of shifts and expedients, which in the end entail more expense with less of ornament or use. They propose therefore that the surplus of the present year's income, together with the admission fees of new members, shall be appropriated to the purpose of providing cases for the Library and Museum. The sum indeed which this appropriation will furnish is very inadequate to the object in view, but it will effect something ; and the Council cannot but cherish a hope that the deficiency will yet be supplied by some further contributions to this definite end, from those to whom it would be gratifying

to witness the speedy and satisfactory completion of the establishment.

The account which has now been given of the state of the Society's income, together with the fact, that in the two last years no less than FIFTY-FIVE new members have been admitted, will afford a satisfactory proof to the Meeting, that an Institution boldly erected on a scale of sufficient magnitude for the object which it proposed to accomplish, has not failed to meet with a corresponding degree of liberal and zealous support. The risk of failure may now be considered as surmounted: the labour of the first arrangements is drawing to a close. Other cares wait on the future progress of the Society, which are of a more pleasing and elevated kind.

In looking to the future, it is gratifying to observe, that those who shall hereafter take a share in administering its affairs will have a smoother path to pursue. In reviewing the past, the acknowledgments must not be forgotten which are due to those who were first in the field: nor can the Council conclude their Report without noticing with regret the retirement of their coadjutor, the late senior Secretary, from the office which he has so long discharged, and without offering him the well earned tribute of their warmest thanks. From the infancy of the Society he has borne a large share of the burthen of its establishment, and has conducted its concerns with the unremitting ardour and constancy which such undertakings require. These disinterested exertions have begun to find their reward in the present success of the

Institution : and whilst in new hands it continues to prosper more and more, its early friends will still view it with increased satisfaction, rising in reputation from year to year, improving its resources, augmenting its acquisitions, and extending the sphere of its activity. Nor will they have cause to regret any time or labour which they have ever bestowed upon it, if it shall eventually accomplish the two great ends for which it was founded;—the erection of a well-supported SCHOOL OF SCIENCE in this northern metropolis, and the execution of such a HISTORY OF YORKSHIRE as the antiquary and the natural historian may be contented to possess.

After reading the Report, the PRESIDENT said:—

“That objects so comprehensive as those which had been stated in the conclusion of the Report, could only be effected by a COUNTY INSTITUTION; and to this character the Society might now justly lay claim, having members and contributors in all parts of Yorkshire, and being possessed of a commensurate establishment. On one point, however, it was still defective; to complete the plan of such an Institution, it remained for the Meeting to choose A PRESIDENT, who, adding to ardour for the objects of the Society, the influence of rank and property, might be at once a zealous director of its course, and a powerful guardian of its interests. During the period of its first struggle for existence, the choice of a President was limited, by the pressure of business, within a narrow compass; and contiguity of residence was

a necessary qualification. But this necessity having ceased, the same desire to promote the good of the Institution which had before induced him to undertake the office, had now determined him to resign it.

“In the event of the choice of the Meeting falling upon a member who resided at a distance from York, the Council proposed to provide against any inconvenience to be apprehended from this circumstance, by recommending one of the Vice-Presidents to take the chair in the President’s absence, and to execute the duties which he might not be able personally to discharge. If the deputy thus appointed should be annually changed, a greater number of persons would successively be called to take a nearer share, and feel a livelier interest, in the concerns of the Society; and considerable advantage might be looked for from the multiplied activity which would be produced by such an arrangement.

“It was not, however, a merely nominal President whose appointment could give satisfaction. To the influence of station and property, there should be added the disposition and ability to take an effective part in the transactions of the Institution: and this union of qualities was not easily to be met with. Yet there was a member of the Society in whom he believed them to be eminently combined; a member who had shewn the earliest interest in its proceedings, and who had attended the first meeting at which a scientific communication was made; a member to whose favourable opinion the Society was indebted for the most

munificent donation¹ which had been contributed towards the erection of the new Museum; a member who added to the inheritance of fortune and rank, the habits of public business, and the endowments of a liberal and cultivated mind. That member was LORD MILTON. He was able also to state that Lord Milton would be ready to fill any office connected with the Society, in which it might be thought that he could render it any service; and he had reason to believe that such a manner of serving the public would be more congenial to his Lordship's feelings, than any of the more bustling employments of political life."

The President having left the Chair, and the Hon. and Rev. HENRY HOWARD being called thereto, it was Moved by Mr. ATKINSON, Seconded by the Rev. D. R. CURRER, and voted unanimously,—

That the thanks of the Society be given to the Rev. WILLIAM VERNON HARCOURT, for the zealous and constant attention with which, as President of the Institution, he has so long watched over its progress, and fostered its rising energies: and that the expression of their deep regret for the loss of his future services in that office, is united with sincere congratulations, that the high objects which he laboured to accomplish have been so fully attained.

Mr. VERNON HARCOURT expressed his gratitude for the confidence which had been reposed in him by the

¹ Earl Fitzwilliam's donation of 300*l.*

Society, and for the uniform kindness and zealous assistance which he had at all times received from his coadjutors in conducting its affairs. To no one had he been more indebted for friendly and able co-operation, than to the late Secretary, Dr. Goldie, and to no one were the thanks of the Society more justly due. He therefore proposed,—

That the thanks of the Society be given to Dr. GOLDIE, for the eminent services which he had rendered to the Institution in the office which he had so long and ably filled. The Motion was Seconded by Mr. EUST. STRICKLAND, and carried unanimously.

The thanks of the Meeting were also voted to the late Vice-Presidents, and to the Members of Council retiring by seniority.

THE TREASURER'S ANNUAL

<i>Dr.</i>	<i>£.</i>	<i>s.</i>	<i>d.</i>
Balance in the Treasurer's hands, January 1830.....	28	14	11
Received arrears of members' annual subscriptions.....	33	0	0
Received admission money from 29 members.....	145	0	0
Received annual subscriptions from 178 members at 2 <i>l.</i> ..	356	0	0
Received ditto from five members at 1 <i>l.</i> ..	5	0	0
Received compositions in lieu of annual subscriptions from three members.....	60	0	0
Received of Egerton V. Vernon, Esq. subscription and donation.....	5	0	0
Received of Eustachius Strickland, Esq. donation for the purchase of specimens in natural history.....	5	0	0
Received of the Rev. W. Hincks the profits of a course of lectures on Botany.....	13	6	9
Received for keys of the Gardens.....	6	15	0
Received from Ladies, being Annual Subscribers.....	9	0	0
Received of the Scarborough Philosophical Society for a duplicate copy of Sowerby's Mineral Conchology.	12	10	0

£679 6 8

ACCOUNT FOR 1830.

<i>Cr.</i>	<i>£.</i>	<i>s.</i>	<i>d.</i>
Interest paid to Messrs. Swann and Co. on account of the Building fund.....	77	9	6
Paid for purchase and preparation of specimens.....	37	17	0
Books and binding.....	51	12	1
Binding and title pages to "Account of St. Mary's Abbey"	17	6	0
Printing and Advertising :			
Report for 1829.....	38	6	3
Miscellaneous	25	14	8
	64	0	11
Stationery.....	11	1	6
Rent and other Charges :			
Rent to the Crown, 3 years	3	2	0
Ditto to the Corporation, 1½ years.....	9	18	9
Parochial rates.....	18	10	8
Water rent	3	3	0
Insurance	5	8	6
	40	2	11
Salaries and Wages :			
Keeper of the Museum.....	60	0	0
Subcurator.....	54	12	0
Servant (to July)	10	0	0
Lodge-keeper (three quarters of a year).	7	10	0
	132	2	0
Expenses of Garden :			
Day labour.....	53	16	8
Shrubs, &c	14	2	0
	67	18	8
Miscellaneous Expenses :			
Compensation to an occupier of part of the ground	3	15	0
Carriage, Postage, and incidental expenses.....	44	7	0
Coke and Coal.....	21	0	3
Sundry small bills.....	9	11	0
	78	13	3
Balance in the Treasurer's hands on this account,			
January 1831.....	101	2	10
	£679	6	8

BUILDING ACCOUNT.

	£.	s.	d.
Amount of Subscriptions announced in the Report for 1829.....	7775	10	0
Additional Subscriptions, 1830.....	660	17	0
Interest allowed by the Bankers.....	184	0	0
Discount and allowances from Contractors, 1830.....	39	0	0
Received by sale of the "Account of Saint Mary's Abbey."	148	10	0
Balance due to the Treasurer on this account.....	1659	12	0
	£10,467	9	0

Expenditure as stated in the Report for 1829.....	9786	17	11
Stamp and fees on the grant from the Crown.....	44	8	2
Payment for excavating and laying out Ground, omitted in the Report for 1829.....	51	2	7
Two other small payments omitted in the same Report...	8	18	0
Additional expenses in 1830, connected with the fitting up and completion of the Museum and Grounds.....	462	15	4
Building Subscriptions unpaid.....	113	7	0
	£10,467	9	0

Balance against the Society on the Building Account..... 1659 12 0

Surplus of Annual Income, 1830.....	101	2	10
Annual Subscriptions unpaid.....	93	0	0
Due for Copies of the "Account of St. Mary's Abbey,"	46	10	0
Building Subscriptions unpaid.....	113	7	0

353 19 10

Final Balance against the Society £1305 12 2

JONA. GRAY, TREASURER.

RENEWED SUBSCRIPTION

TO THE BUILDING FUND.

1830.

	<i>£.</i>	<i>s.</i>
Rev. W. V. Vernon, third subscription . . .	25	0
N. E. Yarburgh, <i>Heslington</i> , third subscription . . .	25	0
P. Beilby Thompson, M.P. <i>Escrick Park</i> , (in addition to 50 <i>l</i> formerly presented to the Society, and applied towards the purchase of a collection of coins) . . .	25	0
William Gray, <i>York</i> , second subscription . . .	20	0
Jonathan Gray, <i>York</i> , third subscription . . .	15	0
Capt. H. J. Bland	25	0
J. F. Brown, <i>York</i> , second subscription . . .	5	0
Rev. S. Creyke, <i>York</i>	5	0
J. and G. Todd, <i>York</i> , second subscription . . .	5	5
Miss Bayldon, <i>York</i>	10	0
Martin Burnell, <i>Copmanthorpe</i> , second subscription . . .	5	0
Henry Harris, <i>Bradford</i>	10	10
John Bleckly, <i>York</i>	2	2
Yarburgh Greame, <i>Sewerby</i> , second subscription . . .	5	0
Rev. E. Kilvington, <i>Ripon</i> , third subscription . . .	5	0
Harwood and Dale, <i>York</i>	5	5
John Dalton, <i>Sleningford</i> , second subscription . . .	25	0
Henry Willoughby, M. P. <i>Settrington</i> , second subscription . . .	5	5
Thomas L. Fairfax, <i>Newton Kyme</i>	10	10
Rev. Dr. Drake, <i>Langton</i> , second subscription . . .	5	5

	£.	s.
Mrs. Lawrence, <i>Studley Park</i> , second subscription	25	0
Rev. Archdeacon Markham, second subscription	25	0
Rev. James Charnock, <i>Ripon</i>	5	5
Christopher Rawson, <i>Halifax</i>	10	10
Hon. Mr. Justice James Parke	25	0
F. W. Forth, <i>York</i>	5	0
John Grimston, <i>Neswick</i>	10	0
Henry Cooper, <i>York</i>	10	10
Joshua Crompton, <i>Esholt</i> , second subscription	25	0
Rev. C. Sykes, <i>Rooss</i> , second subscription	10	10
Rev. Theophilus Barnes, <i>Castleford</i> , second subscription	5	0
John Telford, <i>York</i>	20	0
Joseph Scott, <i>Badsworth</i>	5	0
James Walker, <i>Sand Hutton</i>	50	0
Sir John Ramsden, Bart. <i>Byram</i>	50	0
Rev. R. Swann, <i>Brandsby</i>	25	0
Peter Rhodes, <i>Leeds</i>	50	0
Egerton V. Vernon, second subscription	10	0
Rev. R. Affleck, <i>Silkstone</i>	5	0
R. J. Thompson, <i>Kirby Hall</i> , second subscription	25	0
William Danby, <i>Swinton Park</i> , fourth subscription	25	0
	<hr/>	
	£660 17	

1831.

Hon. Thomas Dundas, M. P.	25	0
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SCIENTIFIC COMMUNICATIONS

RECEIVED AT

THE SOCIETY'S MEETINGS.

MARCH, 1830.—On the recent appearances of Aurora Borealis:
by W. Marshall, F. G. S.

On the ancient Dikes at Huggate, on the Wolds of Yorkshire:
by the Rev. T. Rankin.

On some Geological Phenomena in Caermarthenshire: by Mr.
Price.

On an ancient Seal, in the possession of the Society: by
Michael Jones, Esq. F. S. A.

On the supposed Footprints of Quadrupeds on the Sandstone rock
of Dumfriesshire: by H. Witham, Esq. F. G. S.

APRIL.—On a crystallized Oxide of Zinc, procured from the
Zinc Works at Filisur, in the Grisons;¹—on the colouring matter

¹ Phil. Mag. and Annals, June 1830.

of blue glass beads found in the Tumuli of the Yorkshire Wolds ; and on the presence of calcareous Spar in the black Pottery of the Romans ; by the Rev. W. V. Vernon, F. R. S. &c.

JULY.—On the fossil Crustacea of the Yorkshire coast : by John Phillips, F. G. S.

OCTOBER.—On a mode of preserving the soft parts of animals : by the Rev. W. V. Vernon.

On certain Geological Phenomena in Switzerland : by John Phillips, F. G. S.

NOVEMBER.—On the recent discoveries of Etruscan Antiquities, in consequence of excavations on the estate of the Prince of Canino : by the Rev. J. Kenrick.

DECEMBER.—On some new modifications of Electrical Apparatus : by the Rev. W. Taylor, and J. Phillips, F. G. S.

JANUARY 1831.—On the succession of Limestones in Northumberland : by the Rev. C. V. Vernon.

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

- | | | |
|--|---|---|
| Miss Atkinson,
and
Lieut. Colonel Chatterton | } | Series of fossils from the Green Sand,
Chalk, and tertiary strata of the
Isle of Wight. |
| Mr. H. Baines | | Head and scales of a fish from the Lias
of Whitby, and other fossils. Mactra
and other fossil shells from Brandsby,
and Stigmaria from near Halifax. |
| Miss L. Belcombe..... | | Portion of the bony palate of a fish
from the Cornbrash of Scarborough. |
| John Bell, Esq..... | | Calamites approximatus, &c. from near
Barnsley. |
| H. Bower, Esq..... | } | 19 fossils from the Portland Oolite of
Quorndon, Bucks., including Car-
dium dissimile, Astarte cuneata,
Trigonia gibbosa, &c. |
| Mr. Brookbank, Jun..... | | Belemnites elongatus, Ammonites Wal-
cottii, &c. Whitby. |
| Mr. J. F. Brown | | 20 varieties of Marble. |

- F. Cholmeley, Esq. Large tooth of a Saurian animal from the Forest-Marble Slate of Brandsby.
- Mr. Clark, *Harrogate*. Productæ & other fossils from Harle Hill.
- Rev. Archdeacon Croft. Series of organic remains from the S. E. coast of England.
- Rev. D. R. Curren. { 17 ammonites, nautili and other fossils.
Calamites pseudobambusia (*Sternberg*)
from Knaresborough.
Calcareous deposit from boiling water.
- Mr. Richard Dalton. 8 varieties of sea sand from the south-western coast of England.
- W. Danby, Esq. 18 fossils, including *Teredo antenautæ*, *Sternbergia*, *Sigillaria* & other plants.
- Mrs. R. Davies 15 Vesuvian rocks and other specimens.
- Countess of Denbigh. { 174 Norwegian rocks and fossils, including *Asaphus cornigerus*, *Brongniart*, (*Entomostracites expansus*, *Wahlenberg*,) *Catenipora catenulata*, &c.
- William Duffin, Esq. Fossil wood and corals from the West Indies.
- John Dunn, Esq. { *Astacus*, *Terebratula digona*, *Clypeus orbicularis*, *Rostellaria trifida*, *Corbula curtansata*, and 50 other fossils from the Yorkshire coast.
- Sir P. de Malpas Grey } Cast of the lower jaw, right side, of
Egerton, Bart. } *Ursus spelæus* from Kühloch.
- Rev. J. Empson. Lava and Tufa.
- Hawksworth Fawkes, Esq. } Head of the Irish Elk, (*Cervus euryceros*, *hibernicus*, *giganteus*, of different Authors.)

- S. Hailstone, Esq. } Specimens of the rocks of Scotland,
collected by himself. Fossil plants
from near Bradford.
- Mr. Thomas Harris Ammonites fimbriatus, from Whitby.
- W. J. Henwood, Esq. 67 specimens of serpentine, steatite,
and other rocks of Cornwall.
- Rev. T. Jenkins 70 specimens to illustrate the Geology
of North Wales.
- Rev T. Lewis } Radius of a Balistes, Asaphus caudatus,
and other fossils from the transition
limestone of Herefordshire.
- C. Loscombe, Esq. } Pentacrinus caput medusæ, Caryophyllia
annulata, &c. from the oolitic rocks of
Wilts and Somerset.
- Professor Necker Hypersthene rock of the Valteline.
- Mrs. Norcliffe 19 pebbles from Heslington gravel pit.
- Mr. Phillips Cidaris monilipora from the Oolite of
Kirkdale cave, and 12 other fossils.
- Mr. R. Pickering Palatal teeth of a fish, Malton.
- Cooper Preston, Esq. } Large Orthocera, Ammonites striatus
and other fossils from the limestone
series at Flasby, in Craven.
- Mr. D. Priestman Flexible magnesian limestone from the
coast of Durham.
- Rev. W. Richardson,
Ferrybridge } Tortoise encrinite, from Bridlington.
4 Ammonites from Weymouth.
Ammonites excavatus from near
Oxford.
- Mr. Rippon 3 fossil shells.
- Mr. John Smith Ammonites annulatus, &c.
- Thomas Smyth, Esq. Stalagmite from Gibraltar.

- Arthur Strickland, Esq.... Equisetum columnare, unusually large,
west of Whitby.
- F. W. Taylor, Esq..... Joint of a basaltic pillar.
- A. Thorpe, Esq..... Vertebrae of Ichthyosaurus.
- Lieut. Col. Tweedy..... Marble from India.
- Rev. C. V. Vernon..... } Series of fossil shells and plants from
the Mountain Limestone of Nor-
thumburland.
- Rev. W. V. Vernon..... } Astaci from the clay over the Corn-
brash; and fresh water shells from
the plant bed of Gristhorpe.
- Mr. J. Williamson..... 3 large slabs of fossil plants from
Gristhorpe.
- Henry Witham, Esq..... } 53 additional rocks of Scotland.—
Polished slices of fossil wood from
Eigg, Lennel Braes, Whitby, &c. and
slices of recent plants for comparison.
- Mr. S. Woodward..... Perforated chalk and other specimens
from Norfolk.

MINERALOGY.

Mr. Copsie	2 specimens of Fluor Spar from Cumberland.
Rev. S. Creyke.....	Anthracite from America.
Wm. Danby, Esq.....	186 Minerals, including Axinite, actinolite, arragonite, apatite, varieties of calcedony, carbonates of iron, blue carbonate of copper, specular iron ore, oxides of manganese, wood opal, tourmaline, spinelle, wavellite, &c.
Mrs. R. Davies.....	Specular iron ore, Vesuvian and other minerals.
S. Hailstone, Esq.....	Titanium from Low Moor iron works.
Sir J. V. B. Johnstone, Bart.	Muriate of lead, and other lead ores from Cumberland.
Rev. T. Jenkins.....	26 Minerals from North Wales.
Mrs. Knapton.....	Carbonate of lime from Cumberland.
Mrs. Wharton Myddleton	Jet, retaining its original woody texture.
Cooper Preston, Esq.....	Agates and silicified wood.
Thomas Richardson, Esq..	Silver ores, and a compound of sulphur, seleniums, and mercury, from America.
Mr. John Smith.....	Scoria from Low Moor iron works.
Mr. H. Smith.....	Galena from Spain.
Rev. W. V. Vernon.....	Meteorolite from Juvenas.

ZOOLOGY.

- | | | |
|--------------------------------|----------------------------------|--|
| Mr. Allis. | Helix distorta. | |
| R. J. Anderson, Esq. | Wild Swan. | |
| James Atkinson, Esq. | Echinus esculentus. | |
| Thomas Backhouse, Esq. | { | His whole Collection of British Insects, consisting of 550 specimens of Lepidoptera, 900 Coleoptera, 50 of the other orders, all in fine preservation. |
| Mr. H. Baines. | | |
| | } | Snake from the West Indies. Jay, Starling, Ring Dottrel, Arctic Gull, Turnstone, Woodcock, Purple Sand-piper. |
| Capt. H. J. Bland. | | |
| Mr. J. A. Bulmer. | Paws of Seal, and of Polar Bear. | |
| | { | Cobra di capello. Æsculapian Serpent. Beak of a Sawfish. |
| Rev. J. Charnock. | | |
| | } | Ostrich's egg. 2 Tortoises. Sawfish; beak of the same. Bones of the Whale's ear. |
| Master W. Clark. | | |
| | { | Eggs of 35 species of British birds. |
| E. T. Copley, Esq. | | |
| | } | Spectacle Pelican. (<i>onocrotalus perspicillatus</i> .) 10 Birds from New South Wales. Shoveller duck, King-fisher, Landrail, Mountain Parrot. |

Rev. S. Creyke.....	Diodon holocanthus, <i>Linn.</i>
W. Danby, Esq.....	4 species of Lithophagous shells, in red marl. British shells and corallines.
Mrs. R. Davies.....	Grapsus pictus.
Mr. Dickson, <i>Elvington</i> ..	A Bone of Monodon monoceros.
Wm. Duffin, Esq.....	Frog from Demerara.
J. Dunnington, Esq.....	A Swan.
Rev. John Empson.....	Horns of the Chamois.
Dr. Farrer, <i>Barnsley</i>	20 skins of British birds.
Hawksworth Fawkes, Esq.	Skull of the Nilotic Crocodile.
Lord Feversham.....	Heron. (<i>ardea cinerea</i> .) Scaup duck. (<i>anas marila</i> .)
Randall Gossip, Esq.....	White Stoat. Long-eared Owl. (<i>strix otus</i> .)
Rev. J. Graham.....	Grebe and Falcon from South America.
Rev. Thomas Guy.....	Landrail.
Mr. Hart.....	Skull of a Walrus.
Mr. Hayes, <i>Pickering</i>	Egg of the Ostrich.
W. H. Hearon, Esq.....	Buzzard in pale plumage.
John Hey, Esq.....	Pterostichus iridipennis, a pair.
Rev. W. Hincks.....	Scolopendra morsitans. British shells. Corals, &c.
Mr. John Howard.....	Specimens of Lamia hispidula, &c.
Mr. Jackson.....	Sea Lamprey.
Rev. Mr. Jameson, <i>Ripon</i> .	Gorgonia flabellum.
Lieut. Jefferson, R. N....	Python from Ceylon.
Sir. W. Milner, Bart.....	Porpoise taken in the river Wharfe.
Thomas Meynell, Jun. Esq.	} 20 British Insects, including Hesperophilus arenarius, Strongylus ferrugineus, Bembidium paludosum, &c.

Professor Necker.....	Land and freshwater shells of Carniola.
Mr. Noble.....	Skull of Horse, from a drain near Haxby.
Mr. Phillips.....	Several recent Crustacea.
Mr. Robert Pickering	{ Horns of the Cashmerian Goat. Sucking fish. (<i>echeneis remora</i> .) Egret and Golden Pheasant.
Captain Porter.....	Lanius sulphuratus, and seven other South American birds.
Mr. D. Priestman.....	Eared Grebe.
Mr. Rippon.....	Pied Blackbird, Water Ouzel, Large Shrike, Short-horned Owl.
C. Robinson, Esq.....	8 Fishes from the Cumberland coast.
Miss H. H. Roddam	Nereis cærulea, Yorkshire coast.
Thomas Smith, Esq.....	Corncrake.
Mr. H. Smith.....	Diodon hystrix, <i>Linn.</i>
Walter Smith, Esq.....	Reptiles, fishes, and insects.
Mrs. Jonathan Smith.....	Antennularia ramosa, and other coralines of the Yorkshire coast.
Thomas Smyth, Esq.....	Hair of Elephant. Tusk of Malay Boar.
Eust. Strickland, Esq.....	{ Pigmy Sandpiper. Skeletons of Heron, Black-backed Gull, Goosander, Screech-owl, Little Grebe, Kestrel, Gray Parrot, Goatsucker, Hedge-hog, Stoat, and Fox.
Rev. C. Sykes.....	Red-throated Diver. Lesser spotted Shark, from the coast of Holderness.
Mrs. Taylor	Flying-fish.

- Rev. W. V. Vernon..... Goatsucker. American Serpent. Skeleton of a Fox.
- Mr. Thomas Ward..... Quail, shot 21st Oct. near Ripon.
- Dr. Wasse..... Stoat.
- R. Watt, Esq..... *Crocodylus acutus*, (*Cuv.*) Jamaica.
- Mr. E. White..... { Pair of Pintados. Vertebra and jaws
of Shark. *Fusus colus*, and other shells.
- Miss Wickham..... *Pyrula nexilis*, and other shells, &c.
- Mr. Williamson..... Pair of Dottrels, from the Wolds.
- Mr. J. Wilson..... Hind paw of Seal.
- Master Wright, *Askham*.. { *Hydaticus transversalis*, *Colymbetes vi-*
treus, *Dromius sigma*, and other
British Insects.

BOTANY.

DONATIONS TO THE HERBARIUM.

Mr. Brown	Collection of Sea weeds.
S. B. Bruce, Esq.	Seed-vessel of <i>Hura crepitans</i> . (the "sand-box.")
Rev. J. Graham	Collection of dried plants from the East Indies.
Rev. W. Hincks	Sugar-cane.
Mrs. Morritt	Collection of Sea weeds.
Stapylton Stapylton, Esq. .	} Herbarium Darmstedtæ. Plants collected about Wass, York- shire.
Anth. Thorpe, Esq. ....		Stem of the Cabbage Tree.

DONATIONS TO THE GARDEN.

Messrs. Backhouse	130 Roses.
Mr. H. Baines	63 Seeds. 800 <i>Ranunculus</i> roots.
Mr. Bearpark	250 <i>Ranunculus</i> roots.
Miss Nelson	20 Shrubs.
Mr. Priestman	Various Plants.
Whitby Lit. & Phil. Society	} 27 species of East Indian Seeds, from the East India Company's Garden at Calcutta.
Mr. T. Wilson .....		100 Ranunculus roots.

COINS AND ANTIQUITIES.

COINS.

- E. N. Alexander, Esq. 74 Roman coins. *æ. var.*
A Greek coin. *æ. m.*
- Thomas Backhouse, Esq. 300 local English tokens, copper.
- Rev. Dr. Crigan 9 Roman Coins. *æ. m.*
- Mr. Fawbert, 2 Roman coins. *æ. min.* 8 modern coins
and tokens, copper and brass.
- Rev. E. W. Stillingfleet { 115 local English tokens, copper,
3 tokens, silver, 22 modern foreign
coins, 17 British copper coins,
5 small English silver coins, 4 Spanish
and French, silver.
- Rev. Archdeacon Vernon. Sixpenny-piece of Elizabeth.
- Col. H. V. Vernon { Coin of Ptolemy Philadelphus, *æ. mag.*
Roman coin, *æ. min.*
Modern Arabian coin, from Egypt, gold.
-

MISCELLANEOUS ANTIQUITIES.

- Rev. J. Acaster Nether stone of a Quern.
- R. Brogden, Esq. A celt from Rudgate.

- Rev. D. R. Curren. Portion of an ancient urn.
- Mrs. Davies. A small cannon ball and five bullets
found on Marston Moor.
- Rev. J. Empson. Portion of an ancient wine-vessel.
- Colonel Gooch. A glazed tile.
- Mr. W. Hargrove. A stone coffin from the foundation of
Christ Church, York.
- Alderman Smith. } A claymore—An old breast-plate and
spur—An antique lock and key—
Bullets from Marston Moor—Vase
from Palermo.
- Col. H. V. Vernon. } Several small figures, rings, and other
remains; mummy of a cat; various
pieces of sculpture, pottery, &c.
from ancient Thebes in Egypt.
- Mr. S. Woodward, *Norwich*. Impression of the seal of Sibilla de
Gurnai. Impressions of two other seals.
- Dean of York. Seal of John of Beningbrough, found
in the choir of York Minster.

PHILOSOPHICAL APPARATUS

AND MISCELLANEOUS DONATIONS.

-
- Mr. William Gray, jun... Electrical Battery of nine Jars.
- S. Stapylton, Esq..... Achromatic Microscope.
Hydrometer.
- Rev. W. Taylor..... A new discharging Electrometer.
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- Mr. J. Bleckly..... Two Dies.
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- Mr. J. A. Bulmer..... Model of Vishnu's Car. Cap worn by Hindoo Devotees.
- Mr. William Chaplin..... A Chinese Shoe.
- Rev. J. Charnock..... } Ceylonese Sun Screen. Bow and Arrows from Berbice. Chinese Lantern, Balance, &c.
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- Hewley Graham, Esq.... } Cloth of New Zealand, and specimens of the materials employed in its fabrication. Cloth manufactured by the Sandwich Islanders.
- Mr. Hart..... New Zealand Weapons.

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Lieut. Jefferson, R. N.	Models of Canoes, Indian Deities, Ceylonese Sandals, Umbrella, &c.
J. P. Pritchett, Esq.	Cast of a Capital from the Temple of Vesta at Tivoli.
Mr. J. Rippon	Box of Insect Pins.
Richard Roundell, Esq.	Original Portrait of Francis Drake, Author of "Eboracum."
Eust. Strickland, Esq.	Ebony Inkstand for the Library table.
Rev. W. Taylor	Copper Plates of his Diagrams of Euclid for the blind.
Anth. Thorpe, Esq.	An Esquimaux Canoe.

DONATIONS TO THE LIBRARY.

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| Council of the Royal Asiatic Society | } | Transactions of the Society, vol. second, 4to.
Catalogue of the Society's Library, and third report of the Oriental Translation Committee. |
| Asiatic Society of Bengal. | | Transactions of the Physical Class of the Society. |
| Antiquarian Society of Newcastle | } | Archæologia Æliana, vol. ii. part ii. |
| Society of Arts..... | | Transactions of the Society of Arts. |
| Mr. H. Baines | | Plates to Hooker and Taylor's Muscologia Britannica, coloured, 4to. |
| J. E. Baker, Esq..... | | Ancient M.S. Book. |
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| Mr. Burdekin. | | Dictionnaire d'Histoire Naturelle, par Valmont Bomare, 15 tom. 8vo. 1791. |
| Mr. J. Burrill..... | | "The Jewell House of Art and Nature," 12mo. 1594. |
| Rev. D. R. Currer..... | | Histoire des Medailles, fol. 1703.
Rumphii Thesaurus, fol. 1739. |
| Rev. Dr. Falconer, <i>Bath</i> .. | } | Tracts relating to Natural History, selected from ancient authors: by the late Dr. Falconer, 4to. 1793. |
| Geological Society..... | | Proceedings of the Society, 1830. |
| Richard Hey, Esq..... | } | Instructions for the Enharmonic Guitar, by a Member of the University of Cambridge, folio, 1830. |

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| Godfrey Higgins, Esq.
(the Author) | } The Celtic Druids, 4to.
} On the Vowel Points in Hebrew. |
| W. Hutton, Esq.
(the Author) | { Notes on the New Red Sandstone of
} the County of Durham, 4to. |
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| Council of the Leeds
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| R. I. Murchison, Esq.
C. Lyell, Esq. and
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} of Aix in Provence;
} Abstract of Memoirs on the Tertiary
} Formations of Austria and Bavaria;
} On the Magnesian Limestone;
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| Literary and Philosophical
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| Natural History Society of
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} by the Rev. W. Turner, 1829. |
| Mr. Phillips..... | { On the Geology of Craven, by J.
} Phillips, F.G. S. (from the Geological
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} Earth. |
| Mr. H. Smith, Leeds..... | Beauties of Natural History, 8vo. |
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- Rev. H. J. Todd. { Observations on ancient Swords of the
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menta Vetusta.)
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{ Synoptical Table of Organic Remains,
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Lestiboudois, Botanographie Universelle, partie 1.^{re} 8vo.

- Torrey's Flora of the United States, 8vo.
Bulliard, Discours élémentaire de Botanique, fol. (*col. plates.*)
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ERRATUM, page 33.

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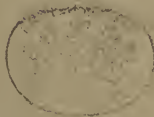
~~1831~~

Workeſhire Philoſophical Society.

ANNUAL REPORT

FOR

MDCCCXXXI.



ANNUAL REPORT

OF THE COUNCIL

OF THE

Worckshire Philosophical Society

FOR

MDCCCXXXI.

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 7TH, 1832.



YORK:

THOMAS WILSON AND SONS, HIGH-OUSEGATE.

1832.

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REPORT
OF
THE COUNCIL.

THE Society, since its last Annual Meeting, has been called upon to take an active share in transactions which, there is reason to hope, may prove the commencement of a new era in the history of British science.

In the beginning of April, the Council received a communication, through one of its Secretaries, from a distinguished philosopher,¹ proposing that Meetings of men of science, similar to those which for some years past have annually assembled in Germany, should be extended to our own country, and inquiring whether it would obtain the concurrence of the Society, that the first Meeting should be held at York.

Convinced of the general benefit which might be derived from this proposal, if it should lead to a better system of scientific co-operation than has hitherto prevailed, and sensible at the same time of the honour and advantage which would redound to the Institution from contributing in any degree to the accomplishment of so important an object, the Council replied by expressing the satisfaction which the Society would feel in giving to such a Meeting the best reception in its

¹ Dr. Brewster.

power, and having ascertained through its Secretary, Mr. Phillips, that the design would meet with adequate support from scientific men in various parts of the kingdom, proceeded on the 12th of July to issue a general circular inviting the friends of science to meet in the apartments of the Society during the last week in September.

To give publicity to the invitation, the Committee which the Council appointed to make the necessary arrangements for the Meeting, addressed copies of the circular to the Presidents and Secretaries of all the Philosophical Institutions in England. As President of the first of our scientific establishments, the Duke of Sussex was solicited to honour the Meeting with his presence. His Royal Highness replied, that if his engagements had permitted him, nothing would have given him greater pleasure than to have accepted the invitation; and he desired that his best wishes for the success of so praiseworthy an object might be communicated, with an assurance of his warm co-operation in promoting any measure which might be suggested and sanctioned by such a Meeting. Copies of the circular were also sent to correspondents, for distribution in Scotland and Ireland; the substance of it was publicly advertised, and the invitation was addressed individually to a numerous list of persons who were known to occupy themselves in the cultivation of science. Of the arrangements which subsequently occupied the attention of the managing Committee, it is sufficient here to state that they satisfied the objects, and obtained the thanks of the Meeting.

On the 27th of September, the Society had the satisfaction of seeing collected within its walls an assemblage of many eminent Members of learned and scientific bodies from different parts of the united kingdoms, before whom it became the duty of the Council, by the previously expressed desire of

the principal promoters of the Meeting, to propose a plan for the conduct of it, and for the establishment of a general system on which similar Meetings might continue to be conducted hereafter.

It is not requisite, in this Report, to enter into a detailed account of the provisions of this plan, because they are on the point of being published in the Report of the British Association for the advancement of Science, by the order of the Committee appointed to revise them. The general principles which distinguish it from the plan of the German Meetings are these : in the first place, instead of confining the Meetings to authors only and professed men of science, whilst it invites such persons to be the leaders and rulers of the Association, it aims also at diffusing more widely the spirit of scientific inquiry, and bringing new labourers into the field ; in the second place, instead of being content with deriving indirect advantage from the Meetings, it employs them expressly as the means of giving a powerful impulse and determinate direction to philosophical inquiry, and of carrying on the advancement of science by a comprehensive system of co-operative exertion.

The object of this system is not only to give connection to the efforts of insulated inquirers, but to link Societies themselves together, in unity of purpose and in a common participation and division of labour. There are many important questions in philosophy, and some entire departments of science, the data of which are geographically distributed, and require to be collected by local observations extended over a whole country ; and this is true not only of those facts on which single sciences are founded, but of many which are of more enlarged application. Thus, for instance, were the elevation above the sea of all the low levels and chief heights and eminences in a country ascertained, so generally that every

observer of nature might have a station within his reach from which he could fix the relative position in this respect of whatever might be the object of his research, of how many questions in how many sciences would these facts contribute to the solution? Again, supposing it to be ascertained also at these stations what is the temperature of the air, and of the water, as it falls from the sky, and as it is held in the reservoirs of the earth, these are data of the same kind, interesting not only to meteorological science, but to the philosophy of organized and animated existence. Yet, extensive as may be the importance of such facts, and simple as are the processes for ascertaining them, and numerous as are the individuals capable of contributing to their investigation, how little nevertheless even of this preliminary work has yet been accomplished, either by insulated observers, or by those who are associated together for the express purpose of advancing the sciences to which it is of such essential interest.

None of our Societies has ever pretended to collect observations of this kind on a regular system, nor to form a national catalogue of the scattered particulars of any one science accurately detailed; and yet the great value which would attach to such collections, when reduced and analyzed, must often have occurred to the enlightened conductors of such Institutions. But that which has prevented any single Society from venturing on the undertaking, has been the impracticability of carrying it on over so extensive a territory as an entire kingdom. There *is* a method however, by which the object might be achieved. Were there in every county one or more provincial Societies, having some Members competent to superintend, and others ready to execute the observations within definite limits, and were these Societies willing to work together on a common plan, the natural history of the country, and all the geographical data of philosophy, might easily be collected in a manner far more perfect than has ever yet been attempted.

With a just sense, therefore, of the importance to science, of combining the Philosophical Societies dispersed through the different provinces of the kingdom in a general co-operative union, the British Association has not only invited them to join its Meetings, but has given to those whom they may specially depute to represent them, the privilege of becoming Members of the Committee by which its affairs are conducted.

It appears to the Council that in availing themselves of the bond of connection thus offered, Societies will not only contribute most essentially to the success of this extensive plan, but will add greatly to their own efficiency. When *individuals* meet for scientific objects, the effect of the general effort, emulation, and example is to produce a spirit of exertion which gives to such Meetings their principal value. And if *Societies* shall concur, as is now proposed, in thus meeting each other, in proposing certain common objects, in communicating from year to year the means which they are using, and the progress which they are making, it seems impossible that this should be done in the presence of an assembly concentrating a great part of the scientific talent of the nation without kindling an increased ardour of emulous activity; it seems impossible that the Deputies of any Society should attend such Meetings without bringing back into its bosom an enlargement of views, and conveying to its members new lights of knowledge, new motives to inquiry, and new encouragement to perseverance.

The actual assembling of one of the Meetings at the place in which any Society is established, has a tendency to produce the same effect in a still more powerful degree, and the Council does not hesitate to state that THIS INSTITUTION has received a sensible impulse, in all these respects, from the visit with which it has recently been honoured. The plan, indeed, on which this Society was first founded, and on which it has always been conducted, is in the spirit of the design which may now be

contemplated for the kingdom. Its especial aim has been to collect information respecting its own county ; and the end to which it aspires has been described in a former Report to be ' the execution of such a history of Yorkshire as the Antiquary and the Natural Philosopher may be contented to possess.' But how greatly will the importance of this object be heightened when it is incorporated into a national system, and when all the results of our inquiries become part of the materials of a far more extensive analysis ! It could not but be felt before by a provincial Society, that in executing the task which it had undertaken, advice and consultation were wanted. With how much more confidence may it now proceed, when it has the advantage of consulting with the Committee of this great national Association ! In comparing the views which it entertains and the methods which it employs, with those that may be offered to its consideration, how largely may it profit by such a commerce, without sacrificing any portion of its real dignity or independence !

The first accomplishment which the Society had the satisfaction to witness of its designs as a County Institution, was the valuable publication in which its Secretary, Mr. Phillips, described the *Geological* relations of the north-eastern district of Yorkshire, and delineated its fossils with so much accuracy and success. The Council are happy in being able to state that, having since proceeded to combine materials for a continuation of the work, its author now proposes to publish by subscription a similar survey of the north-western part of the county, in which his labours will have this additional interest, that he has there, not only a highly interesting field of research, but one of which the greatest part has never been before described.

In the *Botanical* department of the natural history of Yorkshire, a material advance it is hoped will be made, in a

work which the Society's Sub-Curator, Mr. Baines, is preparing for the press. His plan is to give a systematic catalogue of the native plants of the county of York, to which there may probably be added hereafter a Fauna of the same district. The catalogue will be accompanied by notices of the situation in which each species is found, with the circumstances of the soil, substrata, and climate. The Curator of Botany has stated that the materials which Mr. Baines has already obtained, through his own exertions, the assistance of his friends, and the use of the Society's collections, with the aid which he has reason to expect from individuals and Societies in other parts of the county, will fully authorize a strong recommendation of the work to the attention of Botanists, and to the patronage of the Members of the Philosophical Societies of Yorkshire.

A third subject of extensive interest, to which several Members of the Society have for some time past paid attention, and which it now appears practicable to prosecute in a systematic manner, is that of *Meteorological* observations. Whilst there is no science which is more in want than Meteorology of extensive and well conducted observations, there is none, perhaps, in which it is so easy to observe under proper directions. The instruments for measuring the pressure, temperature, and moisture of the atmosphere, which are sometimes sedulously used to very little purpose, might thus be made to minister useful materials to the highest speculations of science. To offer the requisite instructions, to promote as well as to make observations, and to extend them to all parts of the county, would be an office too laborious for any individual to undertake, and the Council have, therefore, constituted a Meteorological Committee, and engaged it to make an Annual Report of its proceedings and progress.

With the pursuits of science the researches of *Antiquarian* learning have been combined in this Institution, and though

the object of the antiquary is different from that of the natural philosopher, the method which he follows is the same. He also is a collector of facts ; and the facts which he records for the use of the moralist and the statesman, are spread over a no less extended geographical surface, and are to be amassed in like manner by combining and directing the industry of many persons. A history of the antiquities of Yorkshire has been already stated to be one of the professed objects of the Society, and the Council has been advised by the Curator of that department that a plan is now proposed for carrying the object into effect. The Members who cultivate this branch of research have in consequence been requested to form a Committee, for the purpose of inviting and collecting topographical, and other antiquarian information from all parts of the county ; a task of which the nature will be best explained in the words of the learned Curator. ¹

“ There are not only in this ancient city and its neighbourhood, but in every part of the great county of York, many most interesting remains of days gone by, with which matters of history, both general and local, public and private, are connected, which are continually suffering from the silent ravages of time, or exposed to the danger of being swept entirely away by the unsparing hand of improvement. There are Druidical circles, and sepulchral tumuli ; ancient roads, and artificial boundaries ; Roman camps ; Saxon or Danish earth-works, and Norman baronial castles ; there are ruins of religious houses, and decaying churches ; monumental tablets, and sculptured effigies ; with many other things perishable in their nature, but connected with deeds and persons, the memory of which ought not to pass away, and which can be preserved only in the faithful records of the antiquary.

¹ The Rev. Charles Wellbeloved.

“The Yorkshire Philosophical Society may hope to make its library the depository of such records. It counts among its members many who, residing in different parts of the county, might with little trouble collect and transmit to the Museum much curious and valuable information respecting the past and present state of their neighbourhood, and thus accumulate a treasure of inestimable worth, in which topographers in time to come may find laid up for their use what they would otherwise be compelled to search for at the cost of much time and labour, and for which, perhaps, they might search in vain, when time, and accident, and innovation have made havoc of the existing monuments of antiquity, and the remembrance of that which is now familiar has been worn away.”

The Curator proposes that an extensive application shall be made to individuals, for accounts of their own immediate vicinity; and for this purpose a list of minute and well-considered queries has been drawn up by that able topographer,¹ the historian of Hallamshire, and of the Deanery of Doncaster, who states that the “value of the information which will be obtained, whenever these queries fall into the hands of a gentleman who is disposed to bestow on them the easy labour which the answers will require, would be highly appreciated by any one who had attempted to describe a considerable extent of country, and who must have found that it is often easier to collect accounts of what passed two or three centuries ago, than of the occurrences of the century preceding our own.” By employing these means, and by referring, where it may be practicable, to documentary evidence in order to verify the oral information obtained, it is hoped that materials may by degrees be collected for the history of that large portion of this county which remains yet undescribed, and also for the future continuation of the history of those districts which have been of late so amply and so satisfactorily illustrated.

¹ The Rev. Joseph Hunter.

Such are the objects to which the exertions of the Officers and other Members of the Society are directed, and to which they may now be fully devoted. The general arrangements of the establishment have been at length completed, as far as circumstances will at present permit. The various means which have been for some years employed to excite a spirit of science have not been without their effect, and the system of scientific Committees gradually applied, as opportunities occur, to different branches of knowledge, will doubtless have a still greater efficacy in enlisting new recruits in the service of philosophy. There are many Members who have it in their power to give at least a portion of their time to these interesting and useful pursuits: to its younger Members especially the Society may look for zeal and activity in advancing its scientific objects, in satisfying the expectations which its progress and conduct have raised, and making its utility and reputation answerable to the pains which have been bestowed upon its affairs, and the liberality with which its expenses have been supported, and its collections increased.

The DONATIONS which have been made since the last Report to the collections of the Society, have been as numerous as in former years, and of even more than usual value. The most valuable specimen, perhaps, which has yet been presented to the GEOLOGICAL MUSEUM, is that which has been given to it by the Rev. Christopher Sykes. It is well known to geologists, that in the *Stonesfield slate* one instance has been found, which, solitary as it is, suffices, if well established, to overturn the whole body of negative evidence from which it might otherwise have been inferred that no terrestrial animal of a high order had existed before the deposition of the chalk, and places in a strong light the precariousness of all geological propositions which rest upon a negative deduction. This instance is the lower jaw-bone of an animal which Cuvier has determined to be allied to the marsupial division of carnivora,

and has not hesitated to place near the genus *Didelphis*. Three specimens of the same bone were already known; the fourth which has now been presented to this Museum, was contained in a collection made for Sir Christopher Sykes by Mr. Platt, of Oxfordshire, more than forty years ago. It was found in that collection by Mr. Phillips, who, having declined the offer of it to himself, afterwards accepted the proposal of the liberal donor to place it in the Yorkshire Museum.

A zealous patroness of geological science, Miss Benett, has honoured the Society with an extensive donation of fossils belonging to the chalk and inferior beds, and including specimens of the alcyonites of Wiltshire, accompanied by a copy of the unpublished work in which they are figured. From Mr. Mantell there has been received a selection of the fossils of the Tilgate beds and of the chalk of Sussex, augmented by a contribution from the same county by Archdeacon Croft,—from the President of the Geological Society,¹ specimens of the insects preserved in the lacustrine deposits of Aix, in Provence,—from Dr. Buckland, fossils and casts of bones illustrative of some of his discoveries,—from Mr. Chantrey, a cast taken by him from the magnificent specimen of *Plesiosaurus*, in the Duke of Buckingham's collection,—from Mr. Henwood, a series of specimens illustrative of the rocks and mineral veins of Cornwall,—from Mr. Grimston, the fossil shells of the most ancient depository of organic remains in Britain, the slate of Snowdon,—from Mr. Lewis, those of the transition slate of Herefordshire; and from Mr. Loscombe, a miscellaneous collection which has supplied many desiderata in the geological catalogue.

A few additions have been made, illustrative of interesting facts in the Geology of Yorkshire. To the Curator of the Philosophical Society of Leeds,² the Museum is indebted for

¹ R. I. Murchison, Esq.

² John Hey, Esq.

casts of fossil fishes, in the collection of that Institution, found in the coal measures, near Bradford, and unlike any which have yet been discovered elsewhere. One of the Vice-Presidents of our own Society ¹ has presented some minute specimens of delicate and unbroken fresh-water shells, (including cypris, cyclas, &c.) found by him in a white and light deposit which lies on the diluvial cliffs of Bridlington, locally known by the name of rotten-stone, and employed in cleansing the floors. The remnant of one of the collections of fossil bones from the cave of Kirkdale, which formed part of the first nucleus of the Museum, has been contributed by Mrs. Thorpe, in addition to other donations of minerals and books; and Mr. Smith has given to the Society a map of the hills of Hackness, accompanied by a memoir in which the stratification of that district is minutely described.

But the fact of greatest interest to Yorkshire geology, which the donations of the past year have illustrated, is one connected with some fossils from the vicinity of Halifax, presented by Mr. Christopher Rawson. It has been long known to the geologists of this county that there exists in *the lower part* of the coal series of Yorkshire, in connection with a particular bed of coal, *one layer* of shale which encloses the remains of shells belonging to the marine genera pecten and ammonites, strongly analogous to, if not identical, with fossils of the mountain limestone series beneath. This shelly layer has been observed, with the same characters, at several points in the vicinity of Leeds, Bradford, Halifax, and Sheffield. In the vicinity of Halifax, it contains argillo-calcareous concretions of a spheroidal figure, in the interior of which Mr. Rawson has discovered the same ammonites (*a. Listeri*) in every stage from the youngest to the full-grown shell, with the same pecten, (*p. papyraceus*), and in addition, several specimens of ortho-

¹The Rev. Wm. Vernon Harcourt.

cera, and plants, and a very extraordinary species of fish, different entirely from those in the collection of the Leeds Society, which were obtained from a higher part of the coal series of Yorkshire.

It has also been long known that in connection with coal-seams, at a considerable height *above* this layer of marine remains, there occur in Yorkshire and Derbyshire, several bands, as they are termed, of shells admitted to belong to the fresh-water genus, *unio*.

To these distinct zoological indications of a marine origin for the lower part of the carboniferous series, and a fresh-water origin for the upper parts, Mr. Phillips has added the important fact, that, in the neighbourhood of Halifax, shells referred to the fresh-water genus, *unio*, occur in a layer at some depth *below* the layer of marine shells, parallel thereto, and separated therefrom by two seams of coal.

This is therefore a case analogous to some examples in the series of tertiary strata, from which it has been inferred that the same basin has experienced *periodical alternations* of marine and fresh-water currents. And, if the zoological characters may be depended on, we are assured that, of the old carboniferous formation in the north of England, the *whole of the lower part* associated with limestone, is of marine origin, but that *the whole of the upper part*, which has no limestone, is of fresh-water origin, while *the intermediate series* shews, in one situation, a definite alternation of the deposits of the sea and fresh waters.

The MINERALOGICAL collection has been enriched with many additions, and especially by the valuable contributions of Mr. Loscombe and Mr. Carne. The latter gentleman, residing in Cornwall, having had his attention directed to one of the Society's Reports, in which the deficiency of the Museum in the

minerals of that county had been stated, was induced, in consequence, to forward to it a well-chosen series of specimens from the Cornish mines, to assist in supplying the defect.

In ZOOLOGY, a specimen of *crocodilus acutus* presented by Mr. Kirlew, of *meandrina labyrinthica*, by one of the Secretaries of the Philosophical Society of Whitby, (Mr. Ripley,) of *placuna sella*, by Mr. Brown, and of *malleus vulgaris*, by Mr. Danby, and a selection of fresh-water shells by Miss Benett, are worthy of the notice of the Meeting. The latter afford an useful comparison with the analogous specimens of the north of England, and may contribute to clear up the characters of the ill-understood species of fresh-water mollusca.

The series of skeletons of British birds, deposited in the Museum by Mr. Allis, whether considered in respect to beauty of preparation, or utility to the student of ornithology, promises to be one of the best in England, and continues to be increased by him, from time to time, with equal assiduity and skill.

The BOTANICAL collection has been augmented by a donation of living plants from the public garden of Liverpool, and by the addition of many species obtained through the liberality of Members of the Society, and the exertions of the Sub-Curator, Mr. Baines. The herbarium has received three hundred dried plants from Russia, presented by Mr. Cattley, of St. Petersburg.

The Society's LIBRARY ¹ has been favoured with the Transactions of the Royal Society of Edinburgh, of the Society of Arts, of the Cambridge Philosophical Society, and of the

¹ A donation of £.5 has been given by Archdeacon Markham to the library, and an annual contribution of £.1 offered, in case a subscription should be entered into for the highly desirable object of enlarging the number of scientific books.

Literary and Philosophical Society, and the Natural History Society of Newcastle ; it has received the Proceedings of the Geological Society of London, the Report of the Cornwall Geological Society, and the Programme de la *Société des Antiquaires du Nord*. Many authors, eminent in various branches of science have presented copies of their publications. Among these, the valuable work of the Vice-President of the Astronomical Society, on Practical Astronomy, requires more especially to be noticed, as having been accompanied by a promise on the part of the author, when he attended the Meeting of the Association in this Museum, that if the Society should proceed to add an Observatory to its other scientific objects, he would present to it two of the best instruments in his possession. In consequence of this munificent offer, a Committee has been appointed to inquire what disposition there may be in this county and neighbourhood to encourage and cultivate the important science of Astronomy. ¹

There is no more important desideratum, in respect to the means which this Institution possesses of promoting science, than that of philosophical instruments. The Secretaries have constructed for its use an accurate Barometer with an adjustable cistern, and the Treasurer has contributed a clock.

Among the objects of ANTIQUARIAN interest which have been presented to the Society, are maps in tapestry of three of the

¹ The Committee have since received from Dr. Pearson an offer of a clock, a telescope, and a transit instrument ; they have obtained an estimate of the expense of erecting an observatory in the Society's Garden, which amounts to £.300, and have invited the subscriptions of the members of the Society and others who may take an interest in promoting so useful an object. Contributions will be received by the members of the Committee, (Mr. Donkin, Mr. Jonathan Gray, and the Rev. Wm. Taylor,) the Secretaries, (Mr. Wm. Gray, jun., and Mr. Phillips,) and the Banks in York.

midland counties, bearing the arms of Sheldon and the date 1588, originally put up at Weston in Warwickshire, and afterwards in the house of Earl Harcourt in Oxfordshire. ¹

To the cabinet of Coins there have been added a considerable number of pennies from different mints of Henry III. of England, and two of William I. of Scotland, found during the recent excavations within the choir of York Minster, which have disclosed remains of the ecclesiastical architecture of *three eras* anterior to that of the present choir. With these were presented ² a Roman coin of Constantine, and some fragments of Roman pottery, dug up between the walls of that portion of these remains which appears to have been a Saxon church. A stone coffin with its contents, from the gravel-pits in Heslington-field, exhibiting an unusual mode of sepulture, has been presented by Major Yarburgh. The body had been imbedded in plaster, which retains the impression of it; and in the plaster were found strings of beads, and ornaments of jet and amber, similar to those observed in the ancient tumuli which have been opened on the Wolds.

But the most valuable acquisition which has been added to the antiquarian objects of the Institution, it owes to the liberality of the Corporation of York. The Society has been permitted to excavate on the site of the MULTANGULAR TOWER and by the side of the adjoining wall which has always been considered the most ancient part of the fortifications of York: in the course of the work indubitable evidence was discovered of the Roman origin of those remains, and additional portions of them were exposed. These, in consequence of a memorial from the Council, have since been put into the possession of the Society; and thus, through the favour of the Corporate body,

¹ Presented by the Archbishop of York.

² By the Rev. W. Vernon Harcourt.

the Society has been the instrument of tracing and preserving the most venerable of the antiquities which record the ancient greatness of this city, a memorial of the mighty power to which we owe the first civilization of our country, and of the era when York was the strong hold of the Roman power in Britain, and when the court of the sovereigns of the world was contained within these walls.

A subscription was opened to meet the expense of the excavation and enclosure of the remains so unexpectedly brought to light, and the Council contributed to it £50. on the Society's account. This sum is therefore added to the standing debt, which has been further augmented by the expenditure required in completing, as far as prudence would permit, the furniture of the Museum on the principle laid down in the last Report.

It was there stated that there existed "an immediate and pressing want of further means for arranging the specimens and books, and that the Council could not advise the supplying this want by a system of shifts and expedients, which in the end entail more expense with less either of ornament or use." When it had been determined that a general scientific Meeting should be held in York, it became the more necessary to execute at once the contemplated arrangements. The furnishing of the theatre and two of the Museums, has in consequence been completed; such cases as were required for the collections in the other rooms have been added, the Library has been fitted up, and the Laboratory rendered available. These expenses, with that of the enclosure of the Roman wall, have occasioned an increase in the Society's debt of about £300, and it may now, therefore, be stated as amounting to £1700. The sum, however, which will bear interest will be less than this by several hundred pounds, on the supposition that the Members will take care that their annual subscriptions shall

be paid in the commencement of the year, when they become due; for whatever money is paid into the Bank on the Society's account, before it is required to be drawn out, is balanced against the debt.

Thus far the Council have exercised a discretion, which they hope will meet with the approval of the Meeting, for the important purpose of enabling the Curators of the various collections to arrange the valuable and multiplied donations which they annually receive; but they do not propose to go further in increasing the debt even for this object. To complete the establishment in a satisfactory manner, an additional expenditure, estimated at £400, is still wanted to fit up in a permanent manner the principal room, which contains the specimens in Zoology and Ornithology, and in which a gallery will be required. But the Council is compelled to recommend that the deficiency in that part of the arrangements of the Museum should be submitted to, till the public liberality shall furnish the means of supplying it. In the mean time contributions which members or others may be induced to subscribe towards this specific object, will be allowed to accumulate till they shall be sufficient to effect it.

Were it practicable to raise a subscription of £2000, that sum would at once finish the Museum and pay off the debt; and the Society would thus be left in possession of a clear income sufficient to remunerate fully the services of the men of science professionally attached to it, and to carry on the extensive and important objects which are unfolding themselves before it, with an efficacy which would do honour to all who should be concerned in conducting or promoting them. For such purposes it might not be difficult perhaps in this county to raise such a subscription. For the present, however, it appears advisable that the plan proposed in the last Report should be adhered to, and that a gradual reduction of the debt

should be attempted. But whilst the Council think it prudent to recommend this course, they must remind the Meeting, that it would require a long course of years to discharge the incumbrance by so tardy a process; and considering the place which the Institution now holds in the opinion of the public, they hope that it will be relieved from these difficulties by more speedy means. Forming part, as it now does, of a system which promises, ere long, to bring again within the area of this Museum an array of all that is distinguished in British Science, it may justly expect that before the time arrives when the national Association shall "return in its periodical revolution, to the point of its first attraction," an object so important to the character and exertions of the Society will be accomplished, and that it will be rendered in all respects worthy to be numbered among the efficient scientific establishments of the country.

RECEIPTS.

	£.	s.	d.
Annual Subscriptions from 213 Members at 2 <i>l.</i>	... 426	0	0
Ditto from 3 at 1 <i>l.</i>	... 3	0	0
From Ladies, being Annual Subscribers	... 23	0	0
For Keys of Garden	... 10	10	0
Due to the Treasurer on this Account	... 79	9	0½

£. 541 19 0½

The above Balance due to the Treasurer	... 79	9	0½
Arrears due to the Society on this account	... 87	0	0
Balance in favour of the Society	... £. 7	10	11½

PAYMENTS.

	£.	s.	d.	£.	s.	d.
Rent to the Crown	1	0	8			
Rent to the Corporation	6	12	6			
Parochial rates, &c.	12	11	4			
Water rent	4	4	0			
Insurance	5	0	0			
					29	8 6
Salaries and Wages:						
Keeper of the Museum	100	0	0			
Sub-curator	54	12	0			
Lodge-keeper	10	0	0			
Collector and Messenger	2	12	6			
Day-labourer	38	10	0			
					205	14 6
Incidents					31	11 3
Sundry small bills					8	5 4
Printing and Advertising:						
Report for 1830	30	9	6			
List of Members and Donors	9	18	0			
Miscellaneous	8	9	0			
					48	16 6
Stationery					6	8 10
Books and Binding:						
Books	37	10	0			
Binding	23	18	5			
					61	8 5
Miscellaneous Repairs					11	14 0
Garden					6	18 3
Gas					14	0 9
Coke, 1830, 1831					36	0 0
Purchases and preparation of specimens					11	2 2
Paid expenses relating to the arrangements for the ad- mission of Members to the Scientific Meeting ... }					6	13 0
Paid Interest on debt					63	17 6
					£. 541	19 0½

GENERAL ACCOUNT.

	£.	s.	d.		£.	s.	d.
Surplus of Annual Income, 1830	101	2	10	Balance against the Society on the Building Account, Jan. 1831	1659	12	0
Received the following arrears:				2 Bills unpaid, 1830 .	30	11	6
..... of Annual Subscriptions	28	0	0	Payments for additional fitting up of the Museum, 1831 ...	409	5	10½
..... of Subscriptions to the Building ...	65	5	0	Payment for excavation, &c. of Multangular Tower ...	50	0	0
..... of sums due, for History of St. Mary's Abbey	21	0	0				
..... Subscriptions to the Building, 1831 ...	50	0	0				
Composition and payment in part of Composition .	50	0	0				
Admission of 27 Members, deducting their first year's subscription ...	81	0	0				
Balance due to the Treasurer on this Account ...	1753	1	6½				
	2149	9	4½		2149	9	4½

	£.	s.	d.
The Balance due to the Treasurer on this account	1753	1	6½
Deduct Arrears due to the Society on this account .	142	2	0
Deduct Balance due on Annual Account	7	10	11½
		149	12 11½
Leaving a Balance against the Society of	1603	8	7
The Society is under further liabilities to the amount of about ...	100	0	0
		1703	8 7
Final Balance against the Society	1703	8	7

SCIENTIFIC COMMUNICATIONS

RECEIVED AT

THE SOCIETY'S MEETINGS.

FEBRUARY, 1831.—A Clock of M'Dowall's construction, with spiral teeth instead of pinions, was exhibited and explained to the Meeting, by Jonathan Gray, Esq.

MARCH.—Notice of a simple method of measuring certain inaccessible distances;—notice of the construction of a new perpetual Sunday Calendar, by the Rev. Wm. Taylor, A.M.

On a new and very easy construction of the Dipping Needle, by John Phillips, F.G.S.

Summary of Meteorological Observations at Ackworth, in 1830, by Luke Howard, F.R.S., &c.

APRIL.—Remarks on the materials employed at different times in the ancient buildings of York, by the Rev. W. V. Harcourt, F.R.S., &c.

Observations on a specimen of the lower jaw of a didelphine quadruped, obtained forty years since from the Stonesfield slate, and presented to the Museum by the Rev. C. Sykes, by John Phillips, F.G.S.

JULY.—A description of the skeleton of a plesiosaurus from Hawsker, now in the Scarborough Museum, by John Dunn, Esq.

Observations on an ancient leaden coffin, lately opened in York Minster, by the Rev. C. Wellbeloved.

Notices of Museums in the South of England, by John Phillips, F.G.S.

OCTOBER.—A description of the new volcanic island near Sicily; communicated by Captain Hotham, R.N.

NOVEMBER.—On the contents of a stone coffin, lately dug up in Heslington-field, by the Rev. C. Wellbeloved.

Memoir on the stratification of the Hackness Hills, accompanied by a Geological Map of the district, by Wm. Smith, Esq.

DECEMBER.—Electro-magnetic experiments, by Wm. Gray, jun., Esq.

Plan of a hot air bath, by the Rev. Wm. Taylor, A.M.

Remarks on the change of colour occasioned by the transmission of light through plates of coloured glass of the same kind, but varying in number or thickness, by the Rev. W. V. Harcourt, F.R.S.

Notice of a peculiar condition of his own vision, arising from indisposition.—On the mean temperature of York, as deduced from twenty-five years observations by Jonathan Gray, Esq., by John Phillips, F.G.S.

JANUARY, 1832.—Electro-magnetic, and magnetic experiments, by Wm. Gray, jun., Esq., and John Phillips, F.G.S.

Summary of observations on the temperature of the air, and quantity of rain at Brandsby, in 1831, by Francis Cholmeley, Esq.

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

- Mr. Thos. Allis Fossil shells from tertiary strata in the interior of Barbadoes.
- Miss J. Bonomi Laminated magnesian limestone, Sunderland.
- Miss Benett Large series of fossils from the chalk of Wiltshire, green sand of Wiltshire and Blackdown, Portland oolite of Chicks-grove, &c. &c.
- Rev. Wm. Buckland, D.D. Coprolites from Lyme Regis, with illustrative preparations, casts of parts of megalosaurus, pterodactylus, &c.
- R. Bevan, Esq. *Rougham*. Phosphate of iron from the Lagoon, near
by H. Bower, Esq. F.A.S. Lowestoff.
- Mr. Henry Baines 3 fossil plants from Wakefield.
- Mr. Copsie Pinna folium, from the diluvium of Filey.
- Miss Croft Corals and shells from the crag of Suffolk.
- Rev. Archdeacon Creft ... Series of fossils from the chalk, chalk-marl, green sand, &c. of Kent and Sussex.
- Rev. R. B. Cooke Elephant's tooth from the coast, two miles north of Hornsea.

- Francis Chantrey, R.A. ... Cast of the specimen of plesiosaurus dolichodeirus, in the possession of the Duke of Buckingham ; cast of ichthyosaurus communis, in the collection of the Geological Society.
- W. Danby, Esq..... Dapedium politum from Lyme Regis.
- Mr. Henry Downing Deposit of carbonate of lime in the interior of the water-pipe of a coal-pit.
- Mr. Ellison Several polished specimens of rocks, productæ in mountain lime, South Wales.
- Rev. Robert Ellis Specimens from a peat deposit near Escrick.
- Sir Philip G. Egerton, Bart. Horn of deer, probably cervus elaphus, from the gravel in Wharfedale.
- Mr. J. Gilbertson, *Preston* Mass of weathered mountain limestone, full of crinoidal reliquiæ, near Clitheroe.
- The Hon. Miss Robinson . Fossil fish from Bedfordshire.
- John Grimston, Esq. Fossil shells from the slate rocks of Snowdon.
- Samuel Hailstone, Esq. ... Pecten papyraceus from the coal shales near Bradford.
- John Hey, Esq. Casts of specimens of fishes in the Leeds Museum, from the coal measures of Bradford.
- W. J. Henwood, Esq..... Series of specimens illustrative of the Geology of the Lizard Point, and other parts of Cornwall, and of the mineral veins of that county.
- Rev. W. V. Harcourt..... Ammonites, zoophyta, and other fossils from the chalk of Bridlington ; fishes from the Specton clay ; cyclas, cypris, &c., from the lacustrine deposit near Bridlington, &c.
- C. Loscombe, Esq. Pentacrinus briareus from Lyme Regis ; zoophyta, testacea, fish teeth, &c., from the oolitic rocks of Pickwick, Steeple Ashton, &c. ; shells from the London clay and calcaire grossier, &c. &c.

- Rev. Thos. Lewis Catenipora, and other zoophyta, trilobites, &c. from the transition limestone and slate of Herefordshire.
- Viscount Milton Vesicular coke, formed by combustion in a colliery at Rawmarsh.
- Gideon Mantell, Esq. ... Fishes in various states of preservation; ammonites, hamites, and other fossils from the chalk of Sussex; plants, teeth of iguanodon, and other fossils to illustrate the Geology of the Wealden formation.
- R. I. Murchison, Esq. President G. S. Insects from the lacustrine formation of Aix, in Provence.
- H. Osbaldeston, Esq. Tufa from Askerne.
- Cooper Preston, Esq. Bones of wolf, ox, &c. from an ancient river-channel near Flasby, in Craven.
- H. Pease, Esq. Bones of horse and ox from Hessle.
- Mr. J. P. Pritchett Granite and slate from Wicklow.
- R. H. Roundell, Esq. Corals, productæ, cirri, and other fossils from the mountain limestone of Gledstone, in Craven.
- Miss Frances Strickland ... Unio Listeri, from the lias of Craycombe, Worcestershire.
- Rev. E. Stillingfleet Fragments of concamerated shells. Hotham.
- Rev. Christ. Sykes Lower jaw of didelphine quadruped, obtained from the Stonesfield slate more than forty years since, by Mr. Joseph Platt, of Oxford.
- Mrs. Thorpe Teeth and bones of hyæna, rhinoceros, ox, &c. from Kirkdale Cave; large mass of wood, portions of ichthyosaurus, and other fossils from the coast of Yorkshire.
- Miss Wickham Galerites from the chalk.

MINERALOGY

- Ignatius Bonomi, Esq. ... Specimens of coralloidal and other varieties of arragonite, from Dufton.
- Miss Buckle Concretionary agate, coast of Yorkshire.
- Rev. W. Buckland, D. D. Crystallized sulphur, sulphate of strontian, sulphate of lime, &c., from Sicily.
- Mr. R. Burdekin Septarium filled with pearl spar, &c.
- Rev. D. R. Curren Mass of galena.
- Rev. Stephen Creyke Tabular quartz, radiated iron ore.
- Joseph Carne, Esq. * 100 Cornish minerals, including various sulphurets of copper and silver, tennantite, bournonite, arseniates of copper and iron, wood iron ore, uranite, pinite, nectic quartz, arragonite, apatite, &c.
- John Grimston, Esq. Octohedral sulphuret of lead, and dog's tooth carbonate of lime, Derbyshire.
- Mr. King, *Hull* Specimens of the iron ore of Dannemora.
- Mrs. Knapton Large crystal of carb. of lime, Derbyshire.
- C. Loscombe, Esq. Apatite, tourmaline, haytorite, uranite, capped quartz, and other minerals of Cornwall and Devonshire.
- Mrs. Roddam Mass of crystallized sulphate of barytes from the mines near Pately Bridge.
- Mrs. Thorpe A series of minerals from Siberia, Germany, &c.
- Dr. Wasse Brown arseniate of lead from Caldbeck fells.
- Mr. Copsie Arseniates of lead and copper, with other minerals from Cumberland.

* This donation was received in 1830, but accidentally omitted in the Report for that year.

ZOOLOGY.

- Rev. J. Acaster Skull of a babyrussa.
- Mr. Thos. Allis Pair of gadwalls (*Anas strepera.*)
Three living testacellæ.
- Mr. Oswald Allen Four Tæniæ.
- Mr. Thomas Backhouse ... 20 foreign insects.
- Mr. James Backhouse 100 foreign shells.
- Mr. Henry Baines 100 British insects.
- Mr. Barclay Large specimen of fungia patella.
- Mr. John Bugg, *Rise* A bittern.
- Wm. Blanshard, Esq. A Solan goose.
- Mr. S. Barber A young cuckoo.
- Mr. John Bell Triton variegatum, cassis tuberosa.
- Varley Bealby, Esq. A bittern.
- Mr. J. F. Brown Placuna sella, murex crassispina, and
other shells from Ceylon.
- Mrs. Best Egg of the alligator, emperor moth,
(*Saturnia pavonia Linn.*) &c.
- Miss Benett Series of uniones, anodonta, &c. from
Wiltshire; Corallines, stellerida, crus-
tacea, &c. from Weymouth.
- Mr. Bolland A flying fish.
- Lieut. Col. Chatterton *Pholas crispata* in perforations of red
marl, from Exmouth.
- Rev. Stephen Creyke 20 foreign shells, including select species
of the genera helix, pyrula, ranella,
mitra, terebra, cassis, &c.

- Miss Croft..... Head of a toucan.
- Thomas Duesbury, Esq.'... 20 birds from South America.
- Mr. Dunn, *Hull* Eggs of several marine birds from the Orkneys.
- Wm. Danby, Esq. Fishes, crustææa, and corallines from Hastings.
- Lieut. Dixon, R.N..... Horn and foot of the rein deer.
- Mr. Edward Elgin Specimens of *cetonia aurata* from Spain. A sparrow-hawk.
- C. H. Elsley, Esq. A white rook.
- Mr. T. Hornby..... Horny exerescence on the ear of a sheep.
- John Gould, Esq. M.Z.S. . Several new species of birds from the Himalya mountains.
- N. C. Gould, Esq. Several birds from Brazil.
- George Kirlew, Esq. *Crocodylus acutus*, (*Cuv. Young*,) Jamaica; *cassis cornuta*, and *c. tuberosa*; *malleus vulgaris*, *madrepora muricata*, &c.
- Rev. Joseph Reade Pair of *Leiochiton Readii*.
- Mrs. Wharton Myddelton . Series of foreign and British shells.
- Capt. H. J. Porter 8 birds from South America.
- Mr. Richard Ripley *Meandrina labyrinthica*.
- John Robinson, Esq. Cast of the head of a dugong.
- Capt. Slyfield, R.N. Insects, snakes, &c. from the West Indies.
- Mrs. Short Death's-head moth, (*Sphinx atropos*.)
- Miss Tomlinson 24 species of British shells.
- Miss Wickham..... *Euryale caput medusæ*, *comatula*.
- A Lady *Turbo iris*.
- Mr. Wm. Whythead *Tridacna gigas*, and other shells.
- Mrs. Henry Wood *Spirula peronii*. (Shore at Sidmouth.)

BOTANY.

DONATIONS TO THE HERBARIUM.

- Mr. Cattley, *St. Petersburg* 300 Dried Plants of Russia.
J. S. Walton, Esq. Fruit of the Seychelle islands palm ;
legume of *Acacia scandens*.
Rev. E. W. Stillingfleet ... Lusus of an Ash tree.
-

DONATIONS TO THE GARDEN.

- Directors of the Liverpool Botanical Garden A collection of Hardy Plants.
J. W. Childers, Esq. Section of a large oak from the alluvium of Sykehouse.
-

COINS AND ANTIQUITIES.

- Mr. Bell, *Bridge-street* ... Coin of Henry V.
Mrs. Best Various Roman antiquities.
Dr. Beckwith Various coins, Roman and English.
Rev. D. R. Currer 19 silver coins ; 4 silver tokens ; 21 cop-
Miss Grimston and }
Mrs. Legard } A collection of copper tokens.

- Mrs. Hawkesworth A coin of Athelstan ; Edward VI. shilling ; Elizabeth sixpence ; Charles I. Newark shilling ; dollar of Phillip III. of Spain ; Albertin et Eliz. ; six small copper coins of Holland, &c.
- Rev. W. V. Harcourt Coins and antiquities, found in the choir and nave of the old crypt.
- R. Hobson, Esq. Fragments of ancient pottery, dug up in York.
- W. H. Hearon, Esq. Silver tokens ; 147 copper tokens.
- C. Loscombe, Esq. Medal of Oliver Cromwell.
- Miss Phillips 27 modern coins.
- Wm. Priestley, Esq. 115 silver modern coins ; 159 copper.
- Rev. J. Reade Coin of Cunobelin.
- E. Strickland..... 18 Roman coins, found out of Micklegate Bar.
- Mr. Todd Small Greek sculpture.
- Mr. R. Tuke A ring.
- N. E. Yarburgh, Esq. A stone coffin, containing the remains of a body covered in plaster, and various ornaments, found in Heslington-field.
- Mr. S. Woodward..... 14 seals, and several duplicates.
- Rev. C. Wellbeloved. 2 fragments of capitals, &c. found under the Bar Walls, and 1 small gold ring.
- Mr. Crabtree Roman curiosities, excavating at York.

DONATIONS TO THE LIBRARY.

- Wm. Alexander Two MS. records, relating to the History of York, folio, formerly belonging to the late Dr. White, of York.
- The Society of Arts Vol. 48, Part. 1, of their Transactions.
- Miss Atkinson Drawing of the dislocated strata in Alum Bay.
- Société des Antiquaires du Nord Programme de la Société.
- Thomas Allan, Esq. 4 Engravings of Fingal's Cave, and the "Foot prints" of Lochmaben.
- John Atkinson, jun. Esq. Drawing of a fossil tree, near Leeds.
Leeds
- Miss Benett 2 copies of her Catalogue of Wiltshire fossils, folio and 4to, with plates.
- Rev. W. Buckland, D. D. On the elephantine and other remains in Escholtz Bay, &c.
(the Author)
- Mrs. Best Rousseau's Botany, 8vo.
Fawkes's Modern Chronology.
- Mr. J. F. Brown Portrait of Mr. Beckwith, the antiquary.
- Dr. Brewster, (the Author) On a new Analysis of solar light, 4to.
- Professor Babbage His Table of Logarithms, 8vo.
- Cambridge Phil. Society ... Transactions, Vol. 4, Part 1.
- Cornwall Geological Society 17th Annual Report.
- Rev. W. Conybeare His Inaugural Address to Bristol College.
- Mr. Copsie Goedart de Insectis, 3 vol. 12mo, plates.
- Rev. S. Creyke Schotti Technica Curiosa.

- Dr. Crook Chart of Phrenology.
- M. Von Dechen, *Berlin* ... Geognostische Charte der Rheinländer, &c.
by Oeynhausens, de la Roche, and Von
Dechen.
- Dr. Daubeny, (the Author) On Bromine and Iodine in English
Mineral Waters, 4to.
On the Atomic Theory, 8vo.
- Wm. Danby, Esq. Three Volumes of his Works.
(the Author)
- John Dalton, Esq. His Meteorological Essays, 1787.
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Part I.
- James D. Forbes, Esq. ... His Essay on the Horary Oscillations of
the Barometer.
- Charles Frost, Esq. His Address to the Hull Literary and
Philosophical Society, 8vo, 1830.
- Rev. W. Flower, jun. Translation of the two first volumes of
Cuvier's Comparative Anatomy, 8vo-
- Geological Society Proceedings, List of Members, &c.
- Jonathan Gray, Esq. A Drawing, by Jonathan Martin.
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ton on Humber
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- R. I. Murchison, Esq. ... Beobachtungen über des tellurischen magnetismus, &c. von Dove and Humboldt, 1830.
- Newcastle Natural History Society Transactions, Vol. I. 4to.
- Newcastle Literary and Philosophical Society Transactions, Vol. I. Part 1., 8vo.
- Rev. Wm. Pearson, L.L.D. His Treatise on Practical Astronomy, 2 vol. 4to, and plates.
- Rev. M. Prickett, On the Priory Church at Bridlington, 8vo.
(the Author)
- Dr. Simpson Biot's *Traité de Physique*, 4 vol. 8vo.
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losophical Society
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Yorkshire Philosophical Society.

ANNUAL REPORT

FOR

MDCCCXXXII.



ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society

FOR

MDCCCXXXII.

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 5TH, 1833.



Y O R K :

THOMAS WILSON AND SONS, HIGH-OUSEGATE.

1833.

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R E P O R T
OF
THE COUNCIL.

THE COUNCIL cannot lay before the Annual Meeting the Report of the proceedings and state of the Yorkshire Philosophical Society, during the past year, without reminding the Members that the Institution has now reached the end of the tenth year of its existence; and offering their congratulations on the satisfactory and increasing success which, during that period, has marked its progress. Founded under very encouraging auspices, and receiving from its commencement the prompt and liberal support of the friends and patrons of science, in almost every part of the county, and even beyond its extended limits, the most confident expectations that it would eventually attain to eminence among the scientific institutions of Great Britain were, not unreasonably, formed and cherished. But the most sanguine of its earliest friends, who witnessed its origin in the union of three private collections from the antediluvian relics of Kirkdale Cave, could scarcely have imagined that, in the space of ten short years, there would be gathered around that small cabinet so great a multitude of rare, costly, and interesting specimens in almost every branch of Natural History, as that which now adorns the ample rooms of the Museum. The retrospect is highly gratifying, not only as furnishing undoubted evidence of the public approbation of the views contemplated by the Society, and of a growing

attachment to the pursuits of natural science ; but also as exciting and confirming the hope that the Institution will continue to be an object of very general and lively interest, and that it will not fail to receive, so long as it shall continue to merit, the patronage that shall carry it through those temporary difficulties to which all human schemes are unavoidably exposed, and enable it to be as eminently and extensively useful as the most enlightened and benevolent mind can desire.

The Council have the satisfaction of announcing that the Committees appointed for promoting special researches in science, as stated in the last Annual Report, have entered on active labours, some of which have already produced valuable results ; and have formed arrangements for farther progress and extensive co-operation.

The DONATIONS, though less numerous than in some former years, include many contributions of remarkable interest and value, to almost every department of the Museum ; and several volumes of scientific and antiquarian research, which greatly enrich the growing Library of the Institution.

The collection of FOSSIL ORGANIC REMAINS has been increased by several acquisitions which derive a peculiar value from the circumstance that they fill up some of those vacancies which must necessarily occur in the illustration of so vast a subject, by the contributions of independent observers. One of the most important of these specimens, which the discoveries of the year have brought to aid the general deductions of Geology, is the *Badger* from the Crag of Suffolk, presented by the Rev. Stephen Croft. The true history and relative date of that remarkable deposit will probably require for some time to come a very diligent examination ; but it must be admitted that the occurrence in it of such an animal as the *Badger*

strongly confirms the inference, already drawn from the character of its imbedded shells, that the Crag must be regarded as the most recent of all the marine tertiary strata in England.

Equally important for the history of the more ancient deposits associated with coal, is the Fossil Plant discovered by the Rev. C. V. Harcourt, which, by affording to Mr. Witham the means of determining the internal texture of *Lepidodendra*, and of establishing a new analogy between these giants of the older time and the humble Lycopodiaceæ of the present period, has at once confirmed, by additional data, the inferences of that eminent botanist, Brongniart, and thrown a new light on all that relates to the formation of coal. Always attentive to this interesting subject, the Council have had a particular pleasure in receiving the fine *Sigillariæ*, presented by Lord Milton, from the collieries at Rawmarsh; and the *Stigmaria* *Lepidodendra*, &c. collected by Mr. Dawson, from the lower coal strata near Halifax.

The casts of *Fossil Fruits* which have been received from the Scarborough Philosophical Society; the *Jet impressed by an Ammonite*, from the estate of Lord Feversham; the undescribed *Fucus*, which, with other treasures, have been selected from the cabinet of the Rev. Christopher Sykes, furnish new and valuable data; and the *Fishes* from the magnesian limestone of Durham ¹; the *Stellerida* from the chalk of Norfolk ²; *Rock Specimens* from Teesdale ³; and *Hippurites*, and other fossils from abroad ⁴, will all find appropriate places in our comprehensive arrangement.

While far distant from this Museum, the Curator of MINERALOGY has not been unmindful of his peculiar charge,

¹ Presented by H. Smales, Esq. ² By Mr. S. Woodward. ³ By Mr. D. Tuke. ⁴ By Wm. Marshall, Esq.

and his valuable donation of Siberian and Ouralian Minerals, joined to the fine *Metereolite* from L'Aigle, given by Mr. Loscombe, and several select specimens from Mr. Danby, the Rev. Stephen Creyke, Dr. Wasse, Mrs. Thorpe, and others, has left few very obvious chasms in the series of mineral substances.

In ZOOLOGY, a very instructive donation has been received from the Rev. Christopher Sykes, in the perfect skeleton, 28 feet long, of *Balæna rostrata*, which was drifted to the coast of Holderness in 1828, and then minutely examined and carefully prepared for the Museum by the donor and Mr. Phillips.

The collection of Birds, enriched with beautiful East Indian specimens through the attention of Dr. Wake,¹ and with Brazilian and other foreign kinds by Lady Howden, Mr. White, and Mr. Marshall, is likewise indebted for several interesting British Birds to other Members of the Society. Every department of Zoological science has received some useful illustrations, and through the continued benefactions of Mr. Danby, Mr. Marshall, and Mr. White, the series of shells, insects, and corals, have been made much more instructive.

The Council must again call the attention of the Society to the ingenious and useful labours of one of the Members, who has not only adorned the Museum by a further deposit of the skeletons of Birds, which afford such striking evidence of well-directed scientific zeal; but has, moreover, at his own cost, furnished the temporary cases for exhibiting them. To illustrate the various and beautiful adaptations of the bony structure of birds by complete skeletons of the most characteristic

¹ Presented by Dr. Wake, on behalf of the donors, Captain Murray, and Ensign Wake.

genera, and to carry this system into the other classes of vertebral animals, is the aim of this disinterested friend of Natural History. With this example of successful individual exertion before them, knowing also how generally a taste for inquiries into Natural History is excited among the Members, and anticipating from that growing taste a continual accession to the present stores of the organized wonders of creation possessed by the Society,—the Council look forward with anxious expectation to the time when the central Museum may receive its appropriate gallery and cases, and thus the naturalist be satisfied with an adequate arrangement, the contributor of valuable specimens see them properly displayed and turned to good account, and the lovers of nature enjoy the contemplation of all the varied forms of native and exotic life.

Although no great addition has been made to the ANTI-QUARIAN department of the Museum, it has been fortunate enough to receive a small share of some remarkable numismatic treasures which accident has lately brought to light. Mr. J. Brookbank, jun. has presented to the Society four of the silver pennies, discovered near Tutbury; from Mr. Thompson of Thornton Steward, the Society has received seven of the small brass coins of some of the later emperors, found not long since near a Roman station in Wensleydale; and Mr. Copsie has added to his former numerous contributions of various kinds, several Saxon stycas, a large collection of which was recently disinterred in Hexham church-yard. To Mr. Christopher Rawson, of Halifax, the Society is indebted for several Tetradrachms of Macedonia and Thrace; a class of coins in which the Curator regrets to observe the cabinet is very deficient.

The GARDEN has received several contributions of plants, and, the Curator of Botany having again liberally devoted to

this department the proceeds of his lectures, frames have been constructed to shelter the more tender herbaceous plants during the winter, and thus provide a source of increasing beauty and interest.

THE LIBRARY is indebted to a similar act of generosity, originating with the Rev. Archdeacon Markham, for the addition of Brown's Conchology, Hooker's *Jungermannia*, and Knorr's *Petrefactenkunde*. Mr. Hunter has presented to it his admirable Histories of Hallamshire, and of the Deanery of Doncaster; and Dr. Pearson has given fifty copies of his Tables for the reduction of astronomical observations.

This munificent Patron of ASTRONOMY will contemplate with satisfaction the OBSERVATORY which is now rising to receive his instruments and employ his useful tables. The Committee appointed for this object have been scrupulously attentive to the main point of a solid foundation and an immoveable basis for the instruments; they have made provision for a large transit and a circular instrument, and, by placing the revolving telescope on a separate foundation, believe that they shall at once secure accurate observations for time and position, and allow, on suitable occasions, more popular views of the heavenly phenomena.

The Committee to whom the Society confided the duty of inquiring into the ANTIQUITIES of Yorkshire, and of collecting materials for a general topographical history of the county, had the great advantage of being aided in the commencement of their labours, by the learning and experience of the Rev. Joseph Hunter, who kindly furnished them with a most complete series of queries, embracing every point on which the topographer requires information. These queries the Committee have caused to be extensively circulated through the county; and they have received expressions of cordial appro-

bation and promises of assistance from many of the resident gentry and clergy. Some specific answers have been returned ; and they have good reason to expect that in the course of the present year many valuable communications will be placed in the archives of the Museum.

The METEOROLOGICAL Committee has been engaged in preparing a general plan of observations on atmospheric phenomena, which they hope to cause to be executed at many stations contemporaneously, so as speedily to determine the principal elements of the local climate of Yorkshire. To effect this desirable combination of results, it was required not only to propose a good plan, but to prove its practicability with the ordinary means and activity of a provincial Society or the leisure of insulated observers. They have, therefore, been diligently employed in determining one of the most difficult of all the problems to be solved by their proposed scheme of observations, viz. the oscillations of the barometer at several hours of the day. The observations on this subject have been personally executed by the Secretaries so as to give results either exact or approximate for the last fifteen months, as expressed in the following table, where all the mean results are compared with the standard observation at 9, A. M. and the differences, to thousandths of an inch, in excess or defect, marked by the signs + and -.

REPORT OF

	8 A. M.	9 A. M.	3 P. M.	4 P. M.	4—5 P. M.	5 P. M.	6 P. M.	9 P. M.	10 P. M.
January ...	— 016	29.924	— 022	— 031	— 026	— 023	— 026	— 008	— 017
February ...	— 008	30.017	}	— 004	— 004	— 003	}	— 000	+ 010
March ...	— 002	29.826		— 013	— 022	— 010		— 011	+ 005	— 016
April ...	— 003	30.000	not	— 016	— 020	— 011	not	not obs.	— 000
May ...	— 001	30.000	obs.	— 015	— 022	— 003	not	+ 005	+ 007
June ...	+ 003	29.725	}	— 018	— 020	— 020	}	+ 010	— 010
July ...	— 005	29.948		— 008	— 008	— 008		— 008	— 005	— 005
August ...	— 000	29.765	}	— 030	not	— 018	}	+ 006	+ 006
September ...	— 006	29.872		— 007	— 037	— 008		+ 002	+ 019	+ 021
October ...	— 000	30.104	— 014	— 037	— 029	— 029	+ 002	+ 008	— 005
November ...	— 000	29.795	— 053	— 054	— 042	— 042	— 044	— 062	— 070
December ...	— 011	29.751	+ 001	not obs.	— 017	not obs.	— 008	+ 011	+ 014
General Mean.	— .0041	29.894	— .0222	— .0212	— .0185	— .0159	— .0190	— .0026	— .0054
Oct. to March.	— .0061	29.903		— .0278		— .0214		— .0076	— .0146
April to Sept.	— .0020	29.885		— .0150		— .0116		+ .0030	+ .0038
Difference.	.0041	.018		.0128		.0098		.0106	.0184

Hence it appears that, upon the average of the year, the barometer is highest in the morning about 9 A. M.; attains a rather less elevation at about 9 or 10 P. M.; and sinks to its greatest depression (during the day) at 4 P. M. Also, the morning maximum is at its highest in winter; the evening maximum at its highest in summer. The amount of the oscillation during the period of these observations has been greatest in the winter half-year (9 A. M. to 4 P. M.) = .0278, and least in the summer half-year (4 P. M. to 10 P. M.) = .0188. The column for 9 A. M. contains the monthly means at that hour for 1832, reduced to 32° F.

Before they proceed to financial statements, the Council think it right to inform the Meeting, that whatever expenses have been incurred by the scientific and antiquarian Committees, in the prosecution of the duties devolved upon them, they have been defrayed by themselves without any charge to the Society; and further that it is by means of a subscription among the Members, which however is not yet complete, that the cost of the Observatory is to be provided for; and that such additions to the Library and the Garden as come not within the lists of donations presented at the monthly Meetings, have been made. Such instances of unabating zeal and warm attachment, on the part of the Members, is a gratifying proof of the real strength of the Society; yet it cannot fail to excite a feeling of deep regret that the interest upon the building debt, though partially diminished by the £50. loans, should exhaust nearly all the surplus of the annual income, and thus render the Society so much dependent upon the liberality of individual Members, for the accomplishment of objects which ought to be provided for from the common stock.

It has not been found practicable by the most rigid economy that unexpected circumstances admitted, and the general interest and character of the Institution would justify, to save from the income of the past year more than £3. During that period seventeen new Members have been elected, and their admission fees have been applied to the diminution of the debt. On a scrutiny of expenses incurred during the year, by repairs of the building, the completion of the garden, preparation of specimens, and consumption of gas, it appears possible that the annual expenditure may be decreased by about £25. and the Society may still GO ON, trusting for the extinction or at least the diminution of the debt, to the fluctuating admission of new Members, and deferring to a future distant period the providing of those cases to receive the specimens, which the

state of the Museum and the expectations of the contributors so imperiously demand. But such a state of inaction would be a virtual abandonment of all the objects which have been so warmly cherished and so successfully prosecuted, and repugnant to the spirit of the Institution. If the Society had been accustomed to rely entirely or chiefly on its own pecuniary resources for the storing of its Museum, if its objects were confined within a narrow sphere, and no particular interest were felt in its prosperity beyond the neighbourhood of its establishment, it might remain in a state of languor, without exciting general disappointment; it would have only to abstain from fresh purchases, and to make the best use it could of what it already possessed. But such is not the character or the condition of this Society. It is, as its first excellent President has emphatically and justly described it, *a County Institution*, destined for active and increasing exertion. Its objects are most comprehensive; and with these the interest excited in its welfare is fully commensurate. For the rich treasures of its Museum, it is indebted almost entirely to the zeal and liberality of its Members and its friends: what it has received is only an earnest of much more to come. As its various collections increase, and their value and importance in aiding the pursuit of science are more generally experienced, the zeal and liberality of contributors will increase in proportion, and nothing can check them but the inability of the Society to provide proper receptacles for the contributions poured in upon it, not only from the County of York, but from the most distant regions of the globe, and to dispose of them in such a manner as shall secure the attainment of the end for which they are bestowed. To that inability, which cannot but prove highly detrimental, the Institution will be reduced, if the difficulties under which it now labours be not removed. Under this conviction, the Council earnestly call upon the Annual Meeting to adopt such means as may appear most advisable for immediately diminishing that

heavy pressure which baffles the most rigid care and economy, and paralyzes the best efforts of the officers of the Institution.

They do not, however, refer this matter to the judgment of the Meeting with any feeling of despondency. The Society's finances are in no confusion, its income is regular and increasing, and not inadequate to the moderate scale of its establishment, but it is oppressed by the interest of a debt upon the Building. A determined effort at the present juncture may enable the Council to proceed at once with the completion of the central Museum, and thus relieve the Institution from the most pressing of the actual difficulties. Its immediate usefulness will be thus augmented, and its permanent prosperity secured; and it will still continue to be as it has hitherto been, no inconsiderable distinction to have contributed to the erection of this beautiful edifice, and the formation of these agreeable and instructive gardens, and to have provided an adequate fund for the effectual prosecution of researches into the Natural History and Antiquities of Yorkshire.

RECEIPTS.

			£.	s.	d.
Annual Subscriptions from 224 Members, at £2.	...	...	448	0	0
Ditto from 3 Members at £1.	...	...	3	0	0
From Ladies being Annual Subscribers	...	...	21	0	0
For Keys of Garden	...	...	6	5	0
Donation from Jonathan Gray, Esq. for Case of Clock in the Library			9	15	0
			<hr/>		
			488	0	0
Balance due to the Treasurer *	...	...	78	18	1

£. 566 18 1

* There is due to the Society on this Account for Arrears of Annual Subscriptions, £82. which will leave a Balance in the Society's favour of £3. 1s. 11d.

PAYMENTS.

	£.	s.	d.	£.	s.	d.
Rent to the Crown	1	0	8			
..... Corporation	6	12	6			
Parochial Rates, &c.	15	13	0			
Water Rent	4	4	0			
Insurance	5	0	0			
				<u>32</u>	10	2

Salaries and Wages :

Keeper of the Museum	100	0	0			
Subcurator	65	0	0			
Lodgekeeper	10	0	0			
Collector and Messenger	2	12	6			
Labourer	36	8	0			
				<u>214</u>	0	6

Printing and Advertising :

Report for 1831	18	3	0			
Miscellaneous Printing	8	7	6			
				<u>26</u>	10	6
Stationery					4	1 0

Books and Binding :

Books	33	4	0			
Binding	7	3	0			
				<u>40</u>	7	0
Incidents, Carriage, &c.					38	7 8
Sundry small Bills					14	14 11
Miscellaneous Repairs					47	18 2
Garden					8	3 10
Gas, one Year and a half					21	8 8
Coke					18	10 2
Preparation of Specimens					12	5 6
Case of Clock in the Library					9	15 0
Interest on Debt					83	5 0
					<u>£. 566</u>	18 1

SCIENTIFIC COMMUNICATIONS

TO THE

GENERAL MEETINGS.

FEBRUARY, 1832.—On the methods employed in Russia for purifying and rendering malleable the Platinum of the Oural Mines, by Wm. Marshall, F.G.S. *

On the Oscillations of the Barometer, by John Phillips, F.G.S.

Description of Lestris Pomerinus, shot off the coast of Scarborough, October, 1831, by W. H. Rudston Read, Esq.

Summaries of Meteorological Observations for the year 1831, at Ackworth, by Luke Howard, Esq.; at Brandsby, by Francis Cholmeley, Esq.; at Huggate, by the Rev. T. Rankin.

MARCH.—Results of Observations on the Oscillations of the Barometer, mean and extreme temperatures, and quantities of rain falling at different heights, during the months of November, December, January, and February last, by Wm. Gray, jun. Esq., and John Phillips, F.G.S.

APRIL.—Description of a Barometer with an amplified vertical scale, by William Wharton, Esq.

* Phil. Mag. and Journal, for May, 1832.

OCTOBER.—On the Lower or Ganister Coal Series of Yorkshire, by John Phillips, F.G.S. *

On a remarkable case of decomposition of stone, in Craven, by James Hamerton, Esq.

Description of a Method by which a Pendulum may be put into beat without stopping the clock, by the Rev. Wm. Taylor.

NOVEMBER.—On the Organic Remains of the Lower or Ganister Coal Series of Yorkshire, by John Phillips, F.G.S.

On the occurrence of fishes supposed to have fallen from the air during a heavy storm of rain, at Clitheroe, in November, 1821, by James Hamerton, Esq.

DECEMBER.—On certain peculiarities of the bony fabric of the Ostrich, Emu, and Swift, by Thomas Allis.

* Phil. Mag. and Journal, for November, 1832.

RESOLUTIONS ADOPTED AT THE

ANNUAL MEETING

OF THE

YORKSHIRE PHILOSOPHICAL SOCIETY,

FEBRUARY 5, 1833,

(The Rev. CHARLES WELLBELOVED, Vice-President, in the Chair,)

THE Report of the Council having been read, from which it appeared that the Ordinary Annual Income of the Society was inadequate to meet any expenditure beyond the current expenses of the year; and it having been stated to the Meeting that there existed the most pressing necessity for immediately completing the Cases and Gallery designed for the central Museum, so as to preserve and allow of properly arranging the Zoological collection; likewise that the expense of these constructions was estimated not to exceed £450:

IT WAS RESOLVED,

I. That, in order to afford such accommodation as the state of the Zoological collection and the general interest felt in that branch of Natural History demand, it is necessary to have the central Room forthwith fitted up.

II. That, in order to enable the Society to carry the foregoing resolution into effect, it is expedient that a Subscription be immediately commenced.

LIST OF SUBSCRIPTIONS

RECEIVED TOWARDS FITTING UP THE ZOOLOGICAL ROOM

	£.	s.	d.		£.	s.	d.
Hon. and Rev. H. E. J.				Wm. Gray, jun.	...	2	0 0
Howard ...	...	10	0 0	Henry Robinson	...	2	2 0
Sir J. Johnstone, Bart. M.P.	10	0 0		Rev. Charles Wellbeloved	3	0 0	
Dr. Wasse, <i>Moat Hall</i>	...	5	0 0	Jonathan Gray ...	...	10	0 0
E. W., by Dr. Wasse	...	5	0 0	John F. Brown ...	...	5	0 0
Rev. W. V. Harcourt	...	5	0 0	Rev. C. Sykes, <i>Rooss</i>	...	5	0 0
Rev. Wm. Flower, jun.	...	5	0 0	Rev. S. Creyke ...	...	5	0 0
Francis Cholmeley, <i>Brandsby</i>	5	0 0		William Prest ...	...	5	0 0
John Wood ...	...	5	0 0	James Atkinson	...	3	0 0
Wm. Wright, <i>Richmond</i>	...	5	0 0	Charles Robinson	...	2	0 0
Eust. Strickland	...	3	0 0	Robert Henry Anderson	...	2	0 0
Thomas Allis ...	...	2	0 0	Rev. W. Hincks	...	1	0 0
Edward Elgin ...	...	2	0 0	Henry Smales ...	...	3	0 0
Wm. Kirby ...	...	3	3 0	Richard Nicholson	...	2	0 0

The Museum contains, at present, of Geological, Mineralogical, and Zoological Specimens, about 20,000; of which 13,800 are exhibited in proper cases, 4,300 are either not exhibited at all, or else placed in very unsuitable cases and drawers, and 2,000 duplicates. The number of dried plants in the Herbarium is about 10,000; of coins and other antiquarian objects 3,000. Total 33,000.

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

- Mr. John Bleckly Mass of organic remains from the lias of Whitby.
- Mr. J. F. Brown Spongiæ in chalk, specimens of Italian marbles.
- Rev. W. Buckland, D. D. Portions of the "bone bed" of Aust Cliff on the Severn; Geodes from Mendip, teeth and bones of bear from Quingey Cave.
- Mr. F. J. Copsie Ammonites rotula, pholas constricta, and other fossils from Speeton.
- Rev. Stephen Croft Skull and bones of a badger from the Crag near Ipswich, accompanied by the skull of a dog and voluta Lamberti.
- Josh. Dawson, Esq. *Halifax* Stigmaria, lepidodendra, &c. from the lower coal series near Halifax.
- John Davy, M. D. *Malta* Volcanic substances from the new volcanic island off Sicily.
- Wm. Danby, Esq. *Swinton Park* Spongiæ in flint, plants and ironstone from collieries in Durham.
- Lord Feversham Jet impressed by an ammonite, from Bilsdale.

- Earl Fitzwilliam, F.R.S., F.G.S. Several large specimens of sigillaria, calamites, &c. from the coal strata of Rawmarsh.
- Rev. C. V. Harcourt ... The specimen of lepidodendron Harcourtii, from which Mr. Witham's section was taken.
- C. Loscombe, Esq. F.S.A: Pentacrinus briareus from Charmouth, and other fossils.
- Wm. Marshall, F.G.S. ... Trilobites, pocilloporæ, cateniporæ, spiriferæ, &c. from the transition limestone of Christiania; ananchytes, marsupites, spongia cribrosa, &c. from the chalk of Bridlington; hippurites from the Untersberg near Salzburg.
- Scarborough Phil. Society Casts of fruits from the Yorkshire coast.
- Rev. Christopher Sykes ... Os humeri of pterodactylus from Stonesfield. Undescribed species of algalites, various bones of gigantic saurian animals.
- Henry Smales, Esq. ... Several specimens of palæothrissum from the magnesian limestone in Durham, on the line of the Clarence railway.
- Mr. Daniel Tuke ... Specimens of the several limestones and sandstones of the mountain limestone series of Aldstone moor.
- Rev. Charles Wellbeloved Fossil fish from Durham.
- Mr. S. Woodward, F.G.S. Casts of three species of stellerida from the chalk of Norfolk.

MINERALOGY.

- Rev. S. Creyke Tabular quartz from St. Austel, crystallized oxide of iron from Beeralston, mammellated calcedony from Babbi-combe, and other minerals.
- Wm. Danby, Esq. *Swinton Park.* Quartz crystals from the Alps, semiopal from Hungary, carbonate of iron, radiated oxide of iron, oxide of manganese and other minerals, from Devonshire and Cornwall.
- Mrs. R. Davies Sulphate of barytes crystallized.
- Mr. Henry Downing ... Granular muriate of copper from Peru.
- George Hartley, Esq. *Middleton Lodge.* Copper ore found at Middleton Tyas.
- C. Loscombe, Esq. F.A.S. Meteorolite from L'Aigle.
- Wm. Marshall, Esq. F.G.S. Mass of native platinum, weighing 2 oz. 11 dwt. English; osmium and iridium from the Oural mountains; zircon, pyrochlore, &c. from the Government of Orenburg; chromate of lead, malachite, beryl, topaz, &c. from Siberia.
- Mrs. Thorpe Cat's eye, and turquoise from Siberia.
- Jonah Wasse, M.D. ... Radiated silicate of zinc and elastic bitumen from Derbyshire.

Z O O L O G Y.

- Mr. J. F. Brown Caryophyllia angulosa, retepora cellusosa.
- Mr. Donkin Podiceps nigricans.
- Dickson Skeleton of a polar bear.
- Mr. Henry Crummack ... Young white swallow.
- Rev. S. Creyke A musk bag; several foreign shells.
- Mr. William Chaplin ... Skull and horns of a ram.
- Mrs. R. Davies 4 species of foreign shells.
- Wm. Danby, Esq. *Swinton Park.* Series of shells from the south coast of England.
- Lord Feversham Partridge with a singular ventral excrescence.
- Wm. Gray, jun. Esq. ... Echeneis remora.
- Samuel Hailstone, Esq. Various shells.
F.G.S.
- James Hamerton, Esq. Small fish (*young of a cyprinus*) which
Hellifield Peel. fell on the ground near Clitheroe, during a storm of rain, November, 1831.
- Rev. W. Hincks, F.L.S. Asterias endeca and A. papposa.
- Lady Howden Brazilian and other birds, including
The white tropic bird, (*Phæton*.)
Crotophaga ani. *Lanius sulphuratus*.
Widow-bird, (*Vidua variegata*,) *Loxia capensis*.
Wax-billed grosbeak, (*Loxia astrild*,
Gm.,) &c.
- Lord Morpeth Iguana from the West Indies.
- Wm. Middleton, Esq. ... Diseased maxillary bone of a horse.

- Wm. Marshall, Esq. F.G.S. *Aphrodita aculeata*, *pholas crispata*, *p. candida*, *saxicava rugosa*, in chalk from the Yorkshire coast; roebuck, golden eagle, *strix bubo*, ptarmigan, viper, &c. from Germany; 450 species of coleoptera, principally from the south of Germany.
- Rev. I. J. D. Preston, F.C.P.S. 56 species of British insects.
- W. R. Reed, Esq. *Lestris pomerinus*, shot off the coast of Scarborough, October, 1831.
- Captain Stewart Egg of the Alligator.
- Mr. Daniel Tuke Large hairball from the stomach of an ox.
- Mr. Charles White, E.I.C. Albatross, (*Diomedea exulans*;) booby, (*Pelicanus Sula Lin.*,) and other birds: explanaria, pocillopora, and other corals.
- Capt. Murray, (16th regiment of foot,) and Ensign Wake, (34th native infantry, Bengal) 24 birds from Bengal, including *bucco phillippensis*, *cuculus honoratus*, four species of *alcedo*, *merops superciliosus*, *muscipapa flammea*, *oriolus sinensis*, *pteroctes lichtenstenii*, *p. exustus*, &c.
- John Yorke, Esq. *Beverley*. *Falco ossifragus*, taken on the moors above Beverley hall.

BOTANY.

- Rev. W. Buckland, D. D. *Chara hispida* from Rowsham ponds, Oxon.
- Mr. John Bleckly Trees for the garden.
Seed-vessels, &c.
- Mrs. Pickard Seed-vessels of the Cotton plant.

COINS AND ANTIQUITIES.

- | | | |
|---|--|---|
| J. Atkinson, Esq. | | Seven Roman coins ; Claudius, Tetricus, &c. |
| Mr. J. Brookbank, jun. ... | | Four pennies of Edward III., found near Tutbury. |
| Mr. Copsie | | Ten Saxon stycas, found in Hexham church-yard. |
| — Darby, Esq. <i>Huntington</i> | | Eight Swedish coins.
Twenty coins ; Egyptian and Roman. |
| W. Gray, jun. Esq. | | Roman Fibulæ, &c., found in removing the old bridge over the Ouse. |
| Valent. Kitchingham, Esq. | | An earthen Dutch jug of 1580, found at Clifton. |
| Col. Harcourt | | Fourteen coins, Egyptian and Roman, from Thebes. |
| Rev. R. Preston, <i>Bridlington</i> | | Thirteen coins, Roman and English. |
| C. Rawson, Esq. <i>Halifax</i> | | Twelve large silver coins, Grecian and Roman. |
| Miss Richardson, <i>Mansfield</i> | | An antique spur, found near Hardwicke Hall. |
| H. Robinson, Esq. | | A half-sovereign of Henry VIII., and seven other English coins. |
| Rev. Mr. Thompson, ...
<i>Thornton-Steward</i> | | Ten Roman coins ; Victorinus, Tetricus, &c., found near Bolton Castle, Wensleydale. |
| Rev. C. Wellbeloved ... | | A Roman lamp, found in St. George's burial-ground. Fragments of two glass vessels, found with Roman remains, in Heslington-field. |

DONATIONS TO THE LIBRARY.

- British Association Report of the Proceedings of their First Meeting at York, 8vo.
- Rev. W. Buckland, D. D.
(the Author) On the Vitality of Toads inclosed in Stone, 8vo.
- Cambridge Philosophical Society Transactions, Vol. II. III. and IV. Part 2, 4to.
- Christopher Clarkson, Esq.
(the Author) History and Antiquities of Richmond in Yorkshire.
- Geological Society Proceedings to No. 27.
- G. H. Fielding, Esq. ... On a New Membrane in the Eye, 8vo.
- (the Author)
- James Hudson, Esq. ... Observations on the Oscillations of the Barometer, 4to.
- (the Author)
- Wm. Gray, jun. Esq. ... Latham's History of Birds, 7 vol. 4to.
- Rev. Joseph Hunter, F.S.A.
(the Author) History of Hallamshire, folio; History of the Deanery of Doncaster, 2 vol. folio.
- Rev. T. Lewis Maddy's Plane Trigonometry.
- Marshall Hall, M. D. ... On Hybernation, 4to.
- (the Author)
- Leeds Lit. and Phil. Society Report for 1831.
- Manchester Literary and Philosophical Society. Memoirs, Vol. V. New Series.
- R. I. Murchison, Esq. Pres. Address to the Geological Society, Feb. G.S. (the Author) 1832.
- John Phillips, F.G.S. ... Burnetii Telluris Hist. Sacra, 4to.
- Rev. W. Pearson, L.L.D. 50 Copies of his Tables for the Reduction of Astronomical Observations.
- Rev. James Plumptre, B.D. Selections from the English Drama.

- Plymouth Institution ... Transactions of the Institution, 8vo.
- Royal Society Proceedings, Nos. I. to X.
- Royal Society of Edinburgh Transactions, Vol. XII. Part 1.
- Rev. Wm. Ritchie, L.L.D. Essay on Voltaic Electricity, and Electro-
(the Author) Magnetism, 4to.
- The Society of Arts Transactions, Vol. XLVIII.
- Scarborough Phil. Society Report for 1830-31.
- Count Gaspar Sternberg ... Verhandlungen der Gesellschaft.
- Subscription commenced Knorr's Petrefactenkunde, folio, pl. ;
by Archdeacon Markham. Hooker's Jungermanniæ, 4to. pl. ;
Hooker's Conchology, 4to, pl.
- Rev. E. Stillingfleet... .. Tracts relating to Natural History, 8vo. ;
Plan of Old York.
- Mr. Wm. White Sir Kenelm Digby's Chemical Secrets.
- Henry Witham, Esq. F.G.S. On Lepidodendron Harcourtii, 4to. pl.
(the Author)
- Whitby Lit. and Phil. Soc. Ninth Annual Report.
- Wernerian Natural History Memoirs of the Society, Vol. VI. 8vo.
Society.
- Rev. C. Wellbeloved ... Le Clerc Hist. des Provinces Unies des
Pays-Bas, 2 vol. folio.
- Hon. and Rev. W. Howard Patarol. Series Augustorum.

PHILOSOPHICAL APPARATUS,

AND

MISCELLANEOUS DONATIONS.

- Rev. W. Pearson, L.L.D. A sidereal clock by Barraud. A portable transit instrument by Jones.
- Jonathan Gray, Esq. ... A clock by Haley.
- Messrs. Barber & Co. ... Model of the great Portugal diamond.
- Rev. C. Sykes Specimens of the stone of the large circle of Stonehenge, and of Rudston Pillar.
- Rev. Wm. Taylor Heraldic drawings from a pavement supposed to have belonged to Leominster Priory.
- Mr. Daniel Tuke Ancient caparison of a horse, from the moors near Reeth.

M E M B E R S

ELECTED FROM APRIL, 1832, TO MARCH, 1833.

Agar, John, *York*.
Andrews, George Townshend, *York*.
Empson, Amaziah, *Spellow Hill, Boroughbridge*.
Garforth, James Braithwaite, *Coniston, Skipton*.
Hobson, Richard, *York*.
Pearson, John, *York*.
Rawson, Christopher, F.G.S. *Halifax*.
Tigar, John, *Grimston, York*.
Wood, John, *Tower-Street, York*.
Wood, Richard, *Monkgate, York*.

HONORARY MEMBERS.

Hutton, Wm., F.G.S. *Newcastle-upon-Tyne*.
Mantell, Gideon, F.R.S., G.S. *Lewes, Sussex*.

DONATIONS, 1832.

	£.	s.	d.
Richard York, Esq. High-Sheriff, 1832	25	0	0
George Lloyd, Esq.	5	0	0

~~1853~~

Yorkshire Philosophical Society.

ANNUAL REPORT

FOR

MDCCCXXXIII.



ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society

FOR

MDCCCXXXIII.

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 4TH, 1834.



YORK:

THOMAS WILSON AND SONS, HIGH-OUSEGATE.

1834.

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FORM OF A

BEQUEST TO THE SOCIETY.

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.

TRUSTEES
OF
THE YORKSHIRE MUSEUM,
APPOINTED BY THE ROYAL GRANT.

HIS GRACE THE ARCHBISHOP OF YORK.
EARL OF CARLISLE.
EARL FITZWILLIAM, F.R.S., F.S.A.
EARL DE GREY.
HON. AND VERY REV. THE DEAN OF LICHFIELD.
FRANCIS CHOLMELEY, ESQ.
ROBERT DENISON, ESQ.
REV. W. VERNON HARCOURT, F.R.S.
WILLIAM HATFEILD, ESQ. F.G.S.
EUSTACHIUS STRICKLAND, ESQ.
RICHARD JOHN THOMPSON, ESQ.
WILLIAM WRIGHT, ESQ.

P A T R O N S

OF

THE YORKSHIRE PHILOSOPHICAL SOCIETY.

HIS GRACE THE ARCHBISHOP OF YORK.
EARL OF CARLISLE.
EARL OF TYRCONNEL, F.G.S.
VISCOUNT MORPETH.
EARL FITZWILLIAM, F.R.S.
LORD STOURTON.
LORD WHARNCLIFFE.

OFFICERS OF THE SOCIETY.

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EARL FITZWILLIAM, F.R.S., F.S.A., &c. &c.

VICE-PRESIDENTS :

EARL OF TYRCONNEL, F.G.S.

REV. JOHN GRAHAM.

JONATHAN GRAY.

WM. HATFIELD, F.G.S.

EUSTACHIUS STRICKLAND.

JONAH WASSE, M.D.

TREASURER :

JONATHAN GRAY.

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- Elected 1831 REV. WILLIAM FLOWER, JUN.
 Elected 1832 REV. JOHN BAINES GRAHAM.
 REV. W. VERNON HARCOURT, F.R.S., &c.
 Elected 1833 THOMAS ALLIS.
 HENRY ROBINSON.
 REV. I. J. D. PRESTON, F.C.P.S., &c.
 BALDWIN WAKE, M.D.
 Elected 1834 REV. D. F. MARKHAM.
 JOHN BROOK.
 W. L. NEWMAN.
 G. H. SEYMOUR.
-

SECRETARIES:

- WILLIAM GRAY, JUN.
 JOHN PHILLIPS, F.R.S., G.S., &c.

CURATORS:

REV. JOHN GRAHAM	...	GEOLOGY.
WILLIAM HATFEILD, F.G.S.	...	MINERALOGY.
JAMES ATKINSON	... ..	COMPARATIVE ANATOMY.
THOMAS ALLIS	...	} ORNITHOLOGY.
REV. J. B. GRAHAM	...	
REV. I. J. D. PRESTON, F.C.P.S.		ENTOMOLOGY.
REV. W. HINCKS, F.L.S.	...	BOTANY.
REV. C. WELLBELOVED	...	ANTIQUITIES AND COINS.
REV. WILLIAM LUND	...	LIBRARY.

 KEEPER OF THE MUSEUM:

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

 SUB-CURATOR:

HENRY BAINES.

REPORT
OF
THE COUNCIL.

IN presenting to the Annual Meeting the Report of the augmented scientific resources which the past year has placed at the disposal of the Yorkshire Philosophical Society, the Council rejoice to be able to state that the approbation of the public, and the interest of the Members, have in no degree diminished. The Museum has been enriched by new acquisitions, the Laboratory has been well and abundantly furnished, the Observatory has been put into active operation, and the labours of the Committees for Science have been assiduous and productive.

These great and permanent advantages have been derived not from any unusual employment of the Annual Income, but from the generous aid and voluntary contribution of the unwearied friends of this Institution. In consequence, the Council have the gratification of presenting a more favourable statement of accounts than for a long time has appeared, and they see no reason why this advantageous posture of the affairs of the Society should not be still further improved in subsequent years.

The Lists of DONATIONS to the Museum and Library will make known the extent and value of the contributions: the Council, however, can not forbear to call attention in a parti-

cular manner to the important and complete series of crag fossils from near Woodbridge,¹ and the interesting suite of bones of elephant, rhinoceros, &c. from the diluvium of Ilford, contributed by one of the first explorers of Kirkdale Cave.² In noticing the fine head of a fish from the London clay of Sheerness, the Council feel a deep regret that this must be the last of a long series of favours received from that liberal and disinterested patron of natural science, the late William Danby, Esq. of Swinton.

The MINERALOGICAL collection has been made much more complete than before, through the kindness of the Marquis of Northampton in giving many of the rarer minerals of Vesuvius, whose history he has investigated with so much zeal and success.

The state of the ZOOLOGICAL collection is a subject of less congratulation. So far as the present cases would admit new specimens have been introduced, and in particular the exhibition of corals and shells has been materially improved; but it has been found necessary to suspend altogether the labours which were begun in the departments of Entomology and Ornithology. Until the central Museum be fitted up in a suitable manner, this interesting and popular part of our collections must remain in its present very imperfect and unsatisfactory state, and it is the painful duty of the officers of the Institution to declare that it would be altogether useless to accept donations of specimens, for even the safety of which they can not make themselves responsible.³

¹ Presented by the Rev. J. Graham. ² Mr. Gibson of Stratford.

³ In consequence of the directions of the Annual Meeting, for which see page 11, the Council have taken measures for the immediate and complete fitting-up of the Zoological Museum.

In pursuance of the direction of the Annual Meeting in 1832, the Council have applied for subscriptions to remove this the only impediment in the way of the complete accomplishment of the plans of the Society ; and in consequence £.179 has been subscribed. The expense of the whole work is estimated at £. 450 ; and it is the decided opinion of every person connected with the Zoological department that it will be highly advantageous to execute the whole work at once. Under these circumstances the Council have thought it right to appeal to the present Meeting for directions as to further proceedings. They may add, that, in order to aid in the execution of this desirable work, Mr. Phillips has proposed to place half the proceeds of his Course of Lectures on the Natural History of Animals, to be delivered in the ensuing month, at the disposal of the Society.

By the munificence of one of the first friends of the Society, the Earl of Tyrconnel, the Laboratory is now become completely furnished with every requisite for the active prosecution of original researches, as well as for the illustration of public lectures, and there is good ground for hope that the attractive and useful science of Chemistry will by these means become familiar to our Members : this will be the most appropriate acknowledgment of their sense of the motives which dictated this truly noble gift.

The Council have again to acknowledge the liberality of the Rev. W. Hincks, in devoting the proceeds of a Short Course of Lectures on Botany to the improvement of the Garden.

The METEOROLOGICAL Committee present the following table of the oscillations of the barometer for 1833, for comparison with that in the Report for 1832. The heights are reduced to 32° F. by Schumacher's Tables.

REPORT OF

	8 a. m.	9 a. m.	10 a. m.	3 p. m.	4 p. m.	6 p. m.	9 p. m.	10 p. m.
January	—	30.2733	—	-.0221	—	-.0261	+.0029	—
February	—	29.4603	—	-.0141	—	-.0101	+.0061	—
March	-.0043	29.9010	-.0003	—	-.0023	—	+.0192	+.0221
April	+.0123	29.6443	-.0050	—	-.0180	—	+.0075	+.0099
May	+.0059	30.0786	-.0024	—	-.0279	—	+.0059	+.0182
June	+.0079	29.7404	+.0051	—	+.0038	—	+.0040	+.0038
July	+.0011	29.9670	+.0027	—	-.0050	—	+.0205	+.0228
August	+.0008	29.9121	+.0003	—	-.0135	—	-.0140	-.0152
September	-.0069	29.8757	-.0118	—	-.0300	—	-.0344	-.0304
October	-.0015	29.7969	-.0057	—	-.0237	—	-.0138	-.0139
November	-.0003	29.8587	+.0093	—	-.0302	—	-.0001	-.0001
December	-.0040	29.5257	+.0039	—	+.0019	—	+.0141	+.0150
General Mean		29.83610		(-.01810)		(.01810)	+.00054	
Mean of 10 mo.	+.00110	29.83004	-.00039	—	-.01449	—	+.00089	+.00222
March to July	+.00458	29.86626	+.00002	—	-.00988	—	+.01142	+.01536
Aug. to Dec.	-.00238	29.79382	-.00080	—	-.01910	—	-.00964	+.00892
Difference	.00686		.00082		.00922		.00178	.00644

Combining this Table with that for 1832, we have the following annual results; the height at 4 p. m. being made zero.

8 a. m.	9 a. m.	4 p. m.	9 p. m.	10 p. m.
+.0152	+.0178	0000	+.0170	+.0157

The ANTIQUARIAN department of the Museum has received some interesting additions; the most important of which it owes to the liberality of the late Lord Mayor, and the Corporation of York; who have presented to the Society a large collection of fragments of Roman pottery, and other Roman remains of various kinds, discovered on the removal of the rampart of the city walls near Bootham Bar. Among these is a stone formerly belonging to the temple of Serapis, and bearing an inscription to that deity. This remarkable relic, which was found about the middle of the last century on the premises in Tanner Row, lately occupied by John Telford, Esq., and was afterwards in the possession of B. Smith, Esq. of New Buildings, had been for many years unseen, and supposed to be lost, but was brought to light again by the workmen employed in removing the house in the Mint Yard, in which the well known antiquary, Mr. T. Beckwith resided. It has happily now found a secure, and, it is to be hoped, a lasting resting-place, among other monuments of Roman art, superstition, or power.

The Antiquarian Committee regret to state that the hope expressed by them in the last Annual Report has not been realized. Few replies to the queries so extensively circulated by them have been received. They cannot, however, allow themselves to believe that replies may not yet be expected. The queries are numerous, and many of them require time and pains in order to be fully answered. As it is not possible that the object they have in view, and which they have so distinctly stated, should be deemed unimportant and unworthy of attention, by the many enlightened persons whose assistance they have solicited, they still look for such returns as shall enable them to fulfil the design of the Society in their appointment. In the mean time they gratefully acknowledge the zeal and liberality of the Ven. Archdeacon Todd, who has already in various ways rendered them the most valuable

aid, and has kindly put into their hands for the use of the Society, fifty copies of a very interesting and instructive topographical map, illustrating the ancient roads and earth-works near Langton, in the East Riding of this county.

The Council have the gratification to state that the arrangements for the proper employment of the valuable instruments presented by Dr. Pearson are complete, and that a Committee of observers has been appointed, who have entered on their work with a zeal and perseverance which it may be hoped will make this establishment not only useful in its immediate neighbourhood, but also of service to the general progress of astronomy. The subscriptions for the Observatory have fallen considerably short of the cost of its construction; but the Committee hope that the deficiency may yet be supplied by additional contributions.

It is proper to mention that the current expenses of this and the other Committees for science and antiquities, appointed by the Council, are not charged in the Account of the Institution.

On the state of the Society's finances the Council have to remark that during the past year they have succeeded, without much inconvenience, in reducing the expenditure to about £.70 less than the income, and that the result of their efforts would have appeared still more favourable but for the serious damage done to the building by the late violent storms. In the expenses of the year occur some items which will not be repeated, and some charges which may be yet further slightly diminished. The Council have not formed this opinion lightly, or upon a cursory investigation. They have already proposed an arrangement by which, without any injury to the utility of the establishment, and without unreasonable burden on the officers, some real saving may be effected

in the expenses of the garden, of lighting and warming the Museum, and in the preparation of zoological specimens. From all these sources they venture to state that a further reduction upon the necessary expenditure may be realized to the extent of £.30 annually.

On the General Account it will appear that the debt is reduced. This reduction would have been more considerable than it is, had it not been thought advisable to supply the deficiency of subscriptions formerly appropriated to the zoological establishment, and to the excavation of the multangular tower; a certain part of the expenses attending the erection of the Observatory has also been placed in this account. To prevent the occurrence of such irregular charges in future, the Council have resolved that no works about the Museum or garden, proposed to be executed by the contributions of any of the members, shall be undertaken, until the whole sum required to defray the expense, be actually paid to the officers of the Society, as a security against eventual loss to the Institution at large.

The Meeting is now in possession of all the facts concerning the employment of their funds during the past year. The Annual Expenditure is diminished, the debt is reduced, and by a sure though slow process of rigid economy it may be wholly removed. But there is a most urgent demand for the completion of a valuable and popular part of the Museum, and the subscription for this purpose is at present inadequate to the object. It is for this Meeting to direct what steps shall now be taken to maintain the scientific reputation of the Society, without increasing its pecuniary embarrassments.

RECEIPTS.

					£.	s.	d.
Annual Subscriptions from 222 Members at 2 <i>l</i>.	...	...	...	...	444	0	0
Ditto from 5 at 1 <i>l</i>.	...	...	...	...	5	0	0
From Ladies, being Annual Subscribers	...	...	...	...	24	0	0
For Keys of Garden	...	...	...	...	10	5	0
Proceeds of Mr. Addams' Lectures	...	...	...	...	9	0	0
Balance due to the Treasurer	...	...	...	...	13	1	4

£. 505 6 4

Due to the Society on this Account for Arrears £. 84 0 0

GENERAL ACCOUNT.

	£. s. d.		£. s. d.
Received Arrears of Annual Subscriptions.....	60 0 0	Due to the Treasurer on the Annual Account, 1832.....	78 18 1
..... Donation by F. Chantrey, Esq.....	50 0 0	.... on the General Account, 1832.....	1804 13 2
..... Composition from one Member.....	20 0 0	.... on the Annual Account of 1833.....	13 1 4
..... Admission of nine New Members.....	27 0 0	Deficit of the Zoological Subscription.....	11 3 7
..... For Books of St. Mary's Abbey.....	8 0 0	..... of the Subscription for Excavating the Multangular Tower.....	11 18 9
Balance due to the Treasurer	1787 12 1	Carriage of Instruments, Advertising, and certain parts of the interior Fittings of the Observatory.....	32 17 2
	1952 12 1		1952 12 1

Arrears due to the Society.

	£. s. d.
Subscriptions to the Building Fund.....	33 2 0
For History of St. Mary's Abbey.....	15 0 0
Annual Subscriptions of preceding years.....	110 0 0
Annual Subscriptions of 1833.....	84 0 0
	242 2 0
Final Balance against the Society.....	£.1545 10 1

AT THE ANNUAL MEETING

OF THE

YORKSHIRE PHILOSOPHICAL SOCIETY,

FEBRUARY 4, 1834,

FRANCIS CHOLMELEY, Esq. in the Chair,

(After the Resolutions of the last Annual Meeting, relative to the fitting-up of the Zoological Room had been read, and several Members had addressed the Meeting),

IT WAS RESOLVED UNANIMOUSLY, on the Motion of JONA. GRAY, Esq.; seconded by the Rev. W. VERNON HARCOURT :

That in consequence of the increasing pressure of the difficulty in providing for the reception and arrangement of the Zoological Collections, and the inadequacy of the present amount of subscriptions for the fitting-up of the Central Museum, further contributions be earnestly solicited, but that in the present state of the finances of the Society, oppressed by a heavy debt, it is not expedient that the work be commenced until the subscriptions amount to at least £.250.

SCIENTIFIC COMMUNICATIONS

TO THE

GENERAL MEETINGS.

JANUARY, 1833.—On the Series of Strata in Yorkshire, (a general section, drawn to scale and coloured, was exhibited to the Meeting,) by John Phillips, F.G.S.

FEBRUARY.—Summaries of Meteorological Observations for the year 1832; at Brandsby, by Francis Cholmeley, Esq., at Huggate, by the Rev. T. Rankin, at Ackworth, by Robert Whitaker.

MARCH.—General View of the results of twelve months' observations on the quantities of rain which fall upon the top of York Minster, upon the top of the Yorkshire Museum, and on the ground adjacent, by John Phillips, F.G.S. (The observations made by Mr. Wm. Gray, jun. and John Phillips, F.G.S.)

APRIL.—On a new construction of the Electrophorus of Volta, by John Phillips, F.G.S.

On the Roman Sepulchre, recently discovered near Dringhouses, by the Rev. C. Wellbeloved.

MAY.—On the Geology of Wensleydale, by John Phillips, F.G.S.

JULY.—Notice of the Inscription to Serapis, and other antiquarian curiosities, lately discovered in the Mint Yard, by the Rev. C. Wellbeloved.

NOVEMBER.—Notice of observations on the Aurora Borealis of the 17th of Sept. and the 12th of Oct., by John Phillips, F.G.S.

Notice concerning the Institution of Experiments at Low Moor and Elsecar, Yorkshire, on the effects of long-continued high temperature, in changing the chemical and molecular constitution of rocks, minerals, &c., by the Rev. W. V. Harcourt, F.R.S.

DECEMBER.—On the mechanical advantages for movement resulting to birds from the construction of their respiratory apparatus, by Thomas Allis.

JANUARY, 1834.—Account of Measurements to determine the rate of waste of the coast of Yorkshire, from Bridlington to Spurn Point, by the Rev. T. Hatfield.

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

- J. H. Abraham, F.L.S. ... Pecopteris from Wentworth, stalagmite from Winster, conglomerate from St. Albans.
- Mr. R. Burdekin ... Calamites decoratus, Bradford.
- J. W. Childers, Esq. ... Tooth of *elephas primigenius*, horn of *cervus* from Val d'Arno.
- Mr. F. J. Copsie ... Large joint of hamites, from Speeton.
- Rev. S. Creyke ... Ammonites *sublævis*, from Scarborough.
- Wm. Danby, Esq. ... Fossil wood, *teredo antenautæ*, portions of *plesiosaurus*, head of a fish from Sheerness, recent petrification from Knaresborough.
- Earl Fitzwilliam F.R.S., G.S. New species of *serpula* and *pholadomya*, from the Speeton clay.
- Rev. John Graham ... Specimens illustrative of the Geology of Ascension Isle and Ceylon.
A large series of crag fossils, including almost every published species, and several nondescript fossils.
- Mr. Wm. Gilbertson ... *Unio crassus*, in coal, Wigan; several fossil ferns.
- John Gibson, F.L.S. ... Series of bones of elephant, rhinoceros, ox, &c. from Ilford in Essex.
- Hon. & Rev. H.E.J. Howard Fossils from the mountain limestone.

Mr. S. Henwood	Amygdaloidal trap, from Davis's Straits.
The Marquis of Northampton	Series of fossil shells, mostly of existing species, from the tertiary deposits of Palermo.
Cooper Preston, Esq.	Series of minute fossil shells from the magnesian limestone of Nosterfield.
Geo. Sherwood, Esq.	Two spongiæ from the chalk of Driffield.
Lady Tyrconnel	Ferns, and a nondescript plant from the coal series.
Thomas Wheeler, Esq.	Mass of sandstone traversed by veins of anthracitic coal, from the sides of a trap dyke, Durham.
S. Woodward, F.G.S.	Balani, and minute shells from the crag.

MINERALOGY.

Mrs. Best	Sulphuret of Copper, from the Parys mine, Anglesea.
H. Harcourt, Esq.	Iron pyrites, from the gold mines of Brazil.
Rev. W. Hincks, F.L.S.	Large amethyst from Cork. Lignitic coal from the N. of Ireland, &c.
T. Marshall, Esq., <i>Hartford Bucks. near Northwich.</i>	Select specimens of rock salt, from Cheshire.
Dr. Murray	Sulphate of strontian, from Scotton, near Knaresborough.
The Marquis of Northampton	Series of Vesuvian minerals, including breislackite, wollastonite, arragonite, comptonite, &c.
W. Salmond, Esq. F.G.S.	Mass of arragonite, Alston Moor.
Miss Wickham	Crystallized gypsum, from Derbyshire.

ZOOLOGY.

Mr. Allis ... ..	...	Neretina latissima.
Mr. H. Baines ... ..	...	Procellaria Bullockii.
Thos. Backhouse ... ..	...	Wolf from Siberia.
James Backhouse... ..	...	Hyalæa tridentata, spongiæ, shells, &c. from Van Dieman's Land.
Mr. J. F. Brown ... ..	...	Murex saxatilis.
Col. W. Childers, 11th Light Dragoons.		From India, head and horns of the mouff- lon, ibex, nilghi, axis, gherow, carcar, hog deer, circarra, sichar, tahar, red deer, Indian antelope, buffalo, elephant's teeth, head of gavial, hornbill, adjutant.
R. Denison, Esq. ... ..	...	The tippet grebe, the stone curlew.
Mr. E. Elgin, ... ..	...	Coot <i>m</i> and <i>f</i> .
Mr. Wm. Gray, jun. ... ..	...	Nautilus pompilius.
Rev. J. Graham ... ..	...	Head of turtle, from Ceylon.
Rev. W. Hincks, F.L.S. ... ..	...	Unio ovalis, from near Birmingham.
Col. Harcourt ... ..	...	Cassicus hæmorrhous, rhamphocerus coc- cineus, trochilus maugianus, t. squa- mosus, and other birds, from South America.
H. Healey, Esq. ... ..	...	Gadwall, spoonbill, and black rabbit, from Lincolnshire.
Mrs. W. Legard ... ..	...	Stone curlew, shot at Ganton.
Viscount Morpeth, M.P. ... ..	...	A fallow buck.
Mrs. Norcliffe ... ..	...	Testudo græca.

- James Pearson, *York* ... Head and horns of a North American goat.
- C. Rawson, F.G.S. ... East Indian Corals :—*Madrepora corymbosa*, *m. abrotanoides*, *agaricia explanulata*, *astræa crispata*, *pocillopora verrucosa*, &c.
- 22 Birds :—*Tanagra schrankii*, *T. mexicana*, &c.—*Pipra erythrocephala*, *lanius cærulescens*, *picus undatus*, *psittacus guaruba*, &c. &c.
- By Subscription ... *Astræa retiformis*, *a. deformis*, *meandrina dædalea*, *caryophyllia sinuosa*, *c. fasciculata*, *c. astreata*, *agaricia ampliata*, &c.
- Voluta diadema*, *V. proboscidalis*.

BOTANY.

- Mr. G. Munby ... Herbarium of Scotch Plants, which obtained the gold medal of the Botanical Professor in Edinburgh.
- H. Harcourt, Esq. ... Leaf of the Talipot Tree.
(*Licuala spinosa*.)
Fan made of the Leaf
- Mr. R. Burdekin ... Cedar Cone
- Rev. W. Taylor ... Guinea Corn

COINS AND ANTIQUITIES.

- Mr. Eshelby A Roman sepulchre formed of large tiles, found near Dringhouses.
- Lady Macdonald A large earthen jar, found near Thorpe Rudston, supposed to be Roman, or Roman-British.
- W. C. Maxwell, Esq. ... 3 coins, Gratianus; Valens; and Valentinianus, *au.*
- The Lord Mayor and Corporation of York. 46 Roman coins: Nero; Domitianus; Constantinus M. etc. *æ.* 1, 2, 3, found on removing the rampart near Bootham Bar.
- 47 Northumberland stycas; a penny of Henry VIII.; many fragments of Roman pottery, and of other articles in brass; bricks and ashlar stones from the Roman wall, discovered within the rampart; a large stone bearing the following inscription:
- DEO. SANCTO
SERAPI
TEMPLUM A SO
LO FECIT
CL. HIERONY
MIANUS. LEG.
LEG. VI. VIC.
- H. Robinson, Esq. ... 2 Roman denarii.
- Mr. Shepherd, *Craike* ... A curious stone, apparently an ancient dial.
- Mr. J. Turner A small sculptured stone, and several fragments of Roman pottery, found in Goodramgate.
- Samuel Woodward, F.G.S. Impressions of monastic and other ancient seals.

DONATIONS TO THE LIBRARY.

- | | | | |
|--|-----|-----|--|
| Mrs. Anderson | ... | ... | Norman Antiquities, folio, plates, by G. Anderson, Esq. |
| Mrs. Best... | ... | ... | Adams on Morbid Poisons, 4to; Willan on Cutaneous Diseases, 4to; Keats's Observations on the Fifth Report of the Commissioners of Military Inquiry, 4to; Fourcroy's Tableaux Synoptiques de Chimie, folio; Hunter's Georgical Essays, 3 vol. 8vo.; Gibson on the Effect of Madder Root on the Bones of Animals, 8vo; on Blight in Corn, 8vo; Saunders on Mineral Waters, 8vo; Darwin's Zoonomia, 4 vol. 8vo; Fyfe's Compendium of Anatomy, 3 vol. 4to; Willan on Vaccine Inoculation, 4to; Bell on the Brain, 4to. |
| British Association | ... | ... | Reports of the Meetings of the Association at York and Oxford, in one volume, handsomely bound. |
| Bristol Institution | ... | ... | Report for 1832. |
| Cambridge Philosophical Society | ... | ... | Transactions, Vol. IV. Part 3, 4to.; V. Part 1, and Laws of the Society. |
| Mr. F. J. Copsie | ... | ... | Grew's Anatomy of Vegetables, 12mo.
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Yorkshire Philosophical Society.

ANNUAL REPORT

FOR

MDCCCXXXIV.



ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society

FOR

MDCCCXXXIV.

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 3RD, 1835.



Y O R K :

THOMAS WILSON AND SONS, HIGH-OUSEGATE.

1835.

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REPORT
OF
THE COUNCIL.

IN presenting the Report of the proceedings of the Yorkshire Philosophical Society in 1834, the Council are happy to assure the Annual Meeting that the hopes and expectations of former years have been in a considerable degree realized in the last;—the accommodations in the Museum have been greatly augmented; the collections have been enlarged and enriched; the extraordinary expenses of the Institution may be considered as terminated, and the Society in consequence is advanced to a point from which its friends may look back with satisfaction on the progress it has made, and forward with confidence to a steady career of usefulness.

Wholly dependent on the public favour for the means of erecting a spacious building on a beautiful site, and of maintaining a suitable scientific establishment, it is highly gratifying to find proof of the continued attachment of its many friends, in the still unexhausted supply of new Donations to various departments of the Museum and Library, and to know that the time is arrived when they may be more than ever turned to the advantage of the general student, and to the special illustration of the Natural History and Antiquities of Yorkshire.

The well-stored Museum of ORGANIC REMAINS has been made more complete by the addition of a series of specimens

from the Wealden formation ¹; some of the most curious of the later discoveries in the Lias of Dorsetshire have been furnished by two of our earliest friends ²; many contributions have been received from the Yorkshire coast, through the personal exertions of three Officers of the Institution ³; and the general history of these remarkable deposits has been aided by a contribution of fossils from the analogous strata of Brora ⁴. With deep and grateful satisfaction has the Geological Museum been consulted by many eminent men of science;—and it has recently furnished to M. Agassiz materials which he thinks of great importance for the completion of his magnificent volumes on Fossil Ichthyology.

The MINERALOGICAL Cabinet has received only two additions, but these are of peculiar value; the series of stalactical and other forms of perfectly crystallized carbonate of lime, from the Kingston cave, near Cahir, ⁵ and the fine crystals of sulphate of lime formed in the abandoned galleries of Felling Colliery, teach important truths as to the power and action of what have been called ‘diurnal’ geological causes.

The ZOOLOGICAL collections have been greatly augmented especially in the Ornithological department;—the untiring liberality of Mr. Allis, and Mr. Healey, well seconded by the contribution of several remarkable specimens, and by a purchase effected on most favourable terms, has supplied many of the most obvious deficiencies in this department of science.

The new Zoological Museum will, therefore, immediately receive one thousand specimens of Birds, and a considerable

¹ Presented by the Rev. L. V. Harcourt. ² The Misses Wickham. ³ Mr. Allis, Mr. W. Gray, Mr. Hatfield. ⁴ Presented by the Duchess of Sutherland. ⁵ Presented by Miss Atkinson and Col. Chatterton, M.P.

display of Mammalia, Reptiles, and Fishes, Foreign and British Insects, Shells, Corals, and Crustacea ¹.

That Museum is now completed, upon a plan which appears calculated to combine an admirable illustration of the living wonders of nature, with a correct general arrangement, and to afford the means of an enlarged and truly scientific contemplation of the animal kingdom. The Committee to whom this arduous and responsible duty was assigned, have performed their work to the entire satisfaction of the Council, and, they hope, to the general approbation of the Members; and so effectually have they been aided by the liberality of the Subscribers, that they have not required from the Society any further grant than the sum placed at their disposal by the last Annual Meeting. The old cases removed from this room are destined to furnish the Council Room, Laboratory, and other apartments, and thus, in consequence of one great exertion, the Society is relieved from the most serious of all embarrassments, that of receiving valuable gifts which could not be made useful.

To the ANTIQUARIAN collections no very considerable additions have been made during the past year. Some valuable presents in this department of the Museum have however been received. To Mr. Elsley, and Mr. Graham, the Museum is indebted for specimens of Roman gold. Mr. D. F. Markham has filled up some chasms in the series of Roman family coins; and Mr. Davies has increased the store of Roman and Saxon relics before obtained from the removal of a part of the rampart, and various excavations in the city.

These collections will soon be placed more favourably for

¹ A catalogue of the species wanting to complete the series of British Birds will be found in page 9.

public inspection ; but as no arrangement can be made by means of which the coins can be satisfactorily exhibited without the presence of the Curator, he wishes again to assure the Members of the Institution, that he will cheerfully attend at the Museum, whenever any Member may be desirous of seeing them ; if notice of such desire be previously conveyed to him through the Porter.

The possession of a Scientific LIBRARY was always contemplated by the Society as indispensable to confer value on its other collections, and during the past year this object has been greatly advanced by the presentation of several works of merit on antiquarian and astronomical researches, with drawings, and maps of value, and of books in almost all departments of knowledge. The splendid gift of the Experiments of the late Colonel Beaufoy, challenges our special thanks ¹. During the year, the Society has welcomed the appearance of two works dedicated to its Members ; the History and Antiquities of Catterick Church, by the Rev. James Raine, A.M., and Anthony Salvin, Esq. ; and the Guide to Geology, by Professor Phillips : the former realizing a part of the plan of the Antiquarian Committee, the latter illustrative of the fundamental principles of a science which has no where found more zealous support than within the walls of the Yorkshire Museum.

It is with pleasure the Council have to state that arrangements are made for the publication of the Second Volume of the Geology of Yorkshire during the present year ² : thus one great object proposed by the Society at its foundation will have been partly accomplished.

¹ This noble volume, the first of a series, is printed at the cost of Henry Beaufoy, Esq., and generously distributed to societies and men of science.

² The First Volume will be republished in May, 1835. Persons desirous of obtaining copies of either of these works, are requested to inform the Author, Museum, York.

The labours in the OBSERVATORY have been in constant operation, and as far as the Instruments placed in it, and the arrangements which can be made for the using of them, will allow, they have been of service in exciting and maintaining a taste for Astronomy, and other branches of physical science connected with it.

The METEOROLOGICAL researches of the past year have been still directed to the curious problem of the hourly oscillations of the Barometer, and in this the Secretaries have been aided by Mr. Outhett, who has obliged them by measuring the mercurial column at 4 A. M., and at several other hours, for the space of nearly two years. In consequence, the results of much labour on this interesting subject can now be produced in a general table, and compared with other observations and the indications of theory. It is proper to observe that no continued register of observations of this nature, at 4 A. M., has yet been published for any place in Great Britain, except the admirable Essay of Mr. Hudson, in the Philosophical Transactions for 1832.

From the different METEOROLOGICAL Registers presented to the Society, the following Table of the quantity of Rain at several localities in Yorkshire, in the year 1834, has been compiled.

	<i>East of York.</i>			<i>York.</i>	<i>West of York.</i>		
	Huggate. 600 ft.	Middleton. 400 ft.	Brandsby. 200 ft.	35 ft.	Moat Hall. 100 ft.	Ackworth. 200 ft.	Kirkthorpe, nr. Wakefield on a house top
Jan.	5.775	4.25	3.90	3.650	3.892	3.70	2.652
Feb.	2.875	1.57	1.69	1.320	1.619	0.57	0.870
Mar.	1.500	2.64	1.17	1.475	1.525	1.49	1.100
Apr.	1.375	0.84	1.36	1.375	1.405	1.83	1.303
May	1.000	0.55	0.74	0.740	1.212	0.66	1.204
June	1.375	1.27	1.77	2.145	1.490	1.99	1.420
July	4.500	1.00	3.82	3.545	4.085	7.03	5.500
Aug.	2.000	2.25	2.92	1.615	0.665	2.09	1.133
Sept.	2.000	1.63	2.54	1.935	4.390	1.83	1.444
Oct.	1.000	1.24	0.49	0.465	0.755	0.26	0.288
Nov.	0.960	2.20	1.46	1.741	} 2.225	1.16	1.386
Dec.	2.000	0.74	0.74	0.694		1.13	0.654
	26.360	20.18	22.60	20.700	23.263	23.74	18.954

RESULTS OF OBSERVATIONS
ON THE
OSCILLATION OF THE BAROMETER,

At several hours, between 4 A. M. and 10 P. M. at York, in N. Lat. $53^{\circ} 56'$, 35 feet above high-water.

1st, The height at 4 P. M. being taken as the standard.

A. M.			P. M.		
4	8	9	4	9	10
+	+	+	standard	+	+
·0075	·0163	·0178		·0170	·0162

2d, The mean of the heights at 9 A. M., and 4 P. M. being taken as the standard.

A. M.			P. M.		
4	8	9	4	9	10
—	+	+	—	+	+
·0013	·0074	·0089	·0089	·0081	·0073

The researches of Professor Forbes, (Trans. of the Royal Society of Edinburgh, 1831,) and those of Mr. Hudson, (Philosophical Transactions, 1832,) afford the means of comparing these results with those obtained in London, and in Edinburgh. Mr. Hudson states the oscillation from 10 A. M. to 4 P. M. in London, Lat. $50^{\circ} 51'$, 95 feet above the sea, at ·028. Mr. Forbes has determined the same in Edinburgh, Lat. $55^{\circ} 55'$, 430 feet above the sea, to be ·0114. According to the formula of Professor Forbes, this oscillation should be at York, ·0166: the result of one year's observation gives it ·0004 less than the maximum oscillation which happens at 9 A. M., or ·0174. In London, the evening oscillation (4 P. M. to 11 P. M.,) = ·023; in York, (4 to 9,) ·0170; in Edinburgh, (4 to 10,) ·0097. The nightly oscillation in London (11 P. M. to 4 A. M.) is ·0116; at York, (9 P. M. to 4 A. M.) ·0094.

Another and still more curious subject of investigation has been prosecuted with unremitting attention for the last three years,—the determination of the quantities of RAIN falling at different heights above the ground. The admirable situation of York, the great height and accessibility of the Minster, and the concurrence of the authorities of the Church, have given to the labours of the Secretaries on this question a precision and completeness which has enabled them to present results, and to deduce consequences which, if they shall be confirmed by farther experiments in other situations, will be found to throw a new light, not only on the theory of Rain but also on some other interesting problems in Meteorology. These experiments were instituted at the recommendation of the first Meeting of the British Association, in 1831, in whose volumes the record of them will be found; and the Council is informed that the example set at York, of obedience to the wishes of that great body of men of science, is already imitated in two localities in England, where the annual quantity of rain and other circumstances of climate are very different.

The phenomena of the AURORA BOREALIS, the construction of meteorological and magnetical instruments, and the important subject of subterranean temperature, have received much attention from several Members of the Society, and there can be no doubt that the impulse of the first Meeting of the British Association will continue to be felt in this Society, until that great instrument for the advancement of knowledge shall return to invigorate our exertions.

Such is a brief view of the Scientific labours of the Institution during the year 1834. The statements of Accounts which follow will fully explain the condition of its financial arrangements. The Annual Expenditure has been kept within the income by above £.80; in spite of three unexpected sources of expense, which no prudence could have

prevented, amounting to about £.25.—The General Account is charged with the sum of £.235 for the fitting up of the Zoological Museum, for various important alterations of the flues, repairs of sky-lights and roof, and thoroughly painting the Zoological Museum; a disputed bill amounting to £.39 has been paid; yet in consequence of the admission of New Members, and Compositions, and the savings from the year's income, the general debt of the Society is augmented by only the sum of £.114.

The great expenses of the Institution are now ended; its ordinary charges can be defrayed out of the ordinary income; the public favour still follows its disinterested exertions, new Members will surely be attracted to share its increased advantages, and to stimulate its growing prosperity. The foundations of the Institution were laid securely on the basis of general utility, its scientific energy has been steadily increasing, specially directed towards local objects, but guided by a just spirit of general philosophy. Of the many thousands who examine the treasures of this Museum, some are taught to study, and all are constrained to admire, the varied images of nature, and the impressive monuments of art; every day augments the intellectual wealth and harmonizing influence of the Society; it has taken its just place among the kindred institutions of the age, and not disappointed the hopes of its founders. The ruins amongst which we stand, do indeed sufficiently remind us that this Building, the work of our hands, cannot be expected to last for ever; yet (if we rightly understand the value of science and do our best to promote it,) it is in our power to confer on this Institution, more than 'a long enduring name;'—to nourish in it a principle of life and permanent activity; and to challenge from the present and future generations a grateful acknowledgement of its utility, wherever the pure and peaceful light of philosophy shall shine for the blessing of mankind.

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		{ Mrs. Danby	2 0 0 }			
Donation from Mr. Hincks, being the proceeds of a Course of Lectures				5	3	0

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Arrears due to the Society on this Account £. 80 0 0

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	£.	s.	d.		£.	s.	d.
Received Arrears of Annual Subscriptions, &c.	83	0	0	Due to the Treasurer on the General Account of 1833	1787	12	1
Compositions from two Members	40	0	0	Paid a disputed Bill	39	1	10
For Copies of the History of St. Mary's Abbey	17	0	0	Grant to the Museum Committee for the fitting-up of the Central Museum, and painting, and sundry repairs conducted under their superintendence	235	11	6
Admissions of New Members	36	0	0				
From the Treasurer, balance on the Annual Account of 1834	0	15	8				
			176 15 8				
Balance due to the Treasurer	1885	19	9				
			£.2062 5 5				£.2062 5 5

Arrears due to the Society.

	£.	s.	d.	£.	s.	d.
Subscriptions to the Building Fund	23	2	0			
For Copies of History of St. Mary's Abbey	9	0	0			
Annual Subscriptions, &c., of preceding years	114	0	0			
..... 1834	80	0	0			
			226 2 0			
Final Balance against the Society	...	...	...	£.1659	17	9

SCIENTIFIC COMMUNICATIONS

TO THE

GENERAL MEETINGS.

FEBRUARY, 1834.—Notice of Experiments for an improved Dew Point Hygrometer, by the Rev. W. V. Harcourt, F.R.S., G.S.

Summaries of Meteorological Observations for the year 1833; at Brandsby, by Francis Cholmeley, Esq.; at Huggate, by the Rev. T. Rankin; at Ackworth, by R. Whitaker; at York, by the Meteorological Committee and Mr. Ford; at Moat Hall, by Dr. Wasse; at Middleton, by the Rev. W. R. Allcroft.

MARCH.—On the ancient Forest of Waghens, in Holderness, by John Phillips, F.R.S., G.S., Professor of Geology in King's College.

JULY.—Notice of facts observed during the construction and adjustment of an Achromatic Telescope, by John Phillips, F.R.S., G.S.

NOVEMBER.—On the Polariscope, by Wm. Gray, jun., Secretary of the Yorkshire Philosophical Society.

On the Skeleton of the Armadillo, by Thomas Allis.

Description of an improved Goniometer, by W. L. Newman, F.R.A.S.

DECEMBER.—Account of Experiments on Subterranean Temperature, in Monkwearmouth Colliery, at a depth of 528 yards, by John Phillips, F.R.S., G.S.

JANUARY.—On three exhibitions of Aurora Borealis, observed in the year 1833, by John Phillips, F.R.S., G.S.

DONATIONS
TO
THE SOCIETY'S MUSEUM.

GEOLOGY.

- | | |
|---|--|
| Thomas Allis | Pholas constrictus, and other fossils from Speeton. |
| — Austin | Ammonites triplicatus, from Malton. |
| Mr. H. Baines | Cardium truncatum, from Farndale. |
| Mrs. James Chadwick ... | Fossils, from the white lias and blue lias of Charmouth. |
| Francis Cholmeley, Esq. ... | Large slab of shelly limestone, from Brandsby. |
| Wm. Gray, jun., Esq. ... | Series of cycadeæ, equisetæ, filices, &c., from Gristhorp, Cloughton, and other localities on the Yorkshire coast. |
| Samuel Hailstone, F.G.S. | Fossil plants, from Bardsey; spar veins in magnesian limestone; unio subconstrictus. |
| Rev. L. V. Harcourt ... | Series of fossils, from the Wealden formation, in Sussex, &c. |
| Wm. Hatfield, F.G.S. ... | Ophiura Milleri, avicula cygnipes, and other organic remains, collected on the Yorkshire coast. |
| Mr. T. R. Hills | Specimens of crystallized magnesian limestone, from Building Hill, &c. |
| H. Johnston, Esq., M.D.
<i>Shrewsbury.</i> | Neuropteris cordifolia, from Leebotwood. |

- J. E. Lee, Esq. Geological model of a part of Lincolnshire.
- Miss Richardson Flexible magnesian limestone, from Marsden rocks.
- Duchess of Sutherland Series of organic remains, from the oolitic series of Brora, in Sutherland.
- Granville H. Vernon, Esq. Calymene Blumenbachii, from Dudley.
- Misses Wickham Organic remains from Lyme Regis, including bags of sepia, dorsal laminae of sepia, paddle of ichthyosaurus, &c.
- R. Wormald, Esq. Fossil bivalves, found near Helmsley.

MINERALOGY.

- Miss Atkinson,
and
Col. Chatterton, M.P. Stalactite, stalagmite, and other forms of crystallized carbonate of lime, from the Kingston Cave, near Cahir; (with a plan and drawing of the Cave.)
- Wm. Hutton, F.G.S. Mass of crystallized sulphate of lime, from Felling Colliery, near Newcastle, produced in less than 22 years.

ZOOLOGY.

- Thomas Allis 107 foreign birds, including a pair of swallow-tailed hawks.
Kingfisher with crossed mandibles.
Astræa.
Ophiura aculeata.
Echinus esculentus.

- Mr. Binns Six birds of the genus Buceros.
- Mrs. Danby Pied pheasant, from Swinton Woods.
- Lawrence Edmonstone, Esq., Diver, gull, and falcon, shot at Balta
M.W.S. Sound in April, 1834.
- Wilbraham Egerton, Esq. Red deer, old male (*cervus elaphus*),
M.P. from Tatton Park.
- Samuel Hailstone, F.G.S. Solen pellucidus.
- Mrs. Hartland, *Tewksbury* Sanguinolaria vespertina (*Guernsey*).
- Henry Healey, Esq. ... Long-tailed duck, shoveller, garganey,
ruff and reeve, ring dottrel, eggs of
stone curlew, fringilla montana, grey
wagtail, titlark, redstart, hornbill, mos-
chus javanicus, m and f.
- Mr. Henderson, *Castle Howard* Waxwing (*ampelis garrula*), shot at
Castle Howard.
- Wm. Kirby, Esq. The secretary falcon.
- C. Robinson, Esq. Cardium costatum, voluta neptuni, mu-
rex saxatilis.
- Mr. J. Turner Touraco, fringilla ignicolor; two hum-
ming birds.
- The Misses Walmsley, Full grown emu, which had lived at
Bridlington. Bridlington two years.

B O T A N Y .

- T. Backhouse, Esq. Fruit and radical leaves of the grass tree
of Van Dieman's Land. A frond of
cybodium billiardieri.
- C. Lutwidge, Esq. Roots of elymus arenarius, and arundo
arenaria, from Spurn Point.

COINS AND ANTIQUITIES.

- | | | |
|------------------------|--------|---|
| Mr. T. Allis | ... .. | A coin dug up at the Retreat. |
| James Barber, Esq. | ... .. | A small ornamented silver cross ; Penny of Alexander of Scotland, and of Edward IV., &c. |
| Dr. Beckwith | ... .. | Shilling of Elizabeth ; 4 Roman coins, found in Trinity Gardens ; 5 other coins. |
| Mr. J. Brookbank, jun. | ... .. | Impression of the great seal of Hen. VII. |
| R. Davies, Esq. | ... .. | Various Roman antiquities and coins found in digging the foundation in St. Leonard's Place. |
| C. Elsley, Esq. | ... .. | Gold coin of Honorius, found at Kirby Knowle ; 20 shillings piece of Charles I. |
| Rev. J. Graham | ... .. | Gold coin of Honorius. |
| W. H. Hearon, Esq. | ... .. | Various coins. |
| Rev. D. F. Markham | ... .. | 4 Roman consular coins. |
| Col. Markham | ... .. | A sanscrit roll. |
| Rev. James Menteith | ... .. | 2 silver coins. |
| H. Robinson, Esq. | | Halfpenny of Edward III. |
| Rev. C. Wellbeloved | ... .. | A claymore found in Cleveland. |
| Rev. G. Wilkins | | Cast of a bronze Hercules, dug up at Cambrai, and now in the British Museum. |

DONATIONS TO THE LIBRARY.

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|---|--------|--|
| Miss Atkinson | | Original Drawing of the interior of the Kingston Cave. |
| Miss Atkinson and Col. Chatterton, M.P. | | Map of the Cave of Kingston, near Cahir. |

- H. Beaufoy, Esq. Experiments of the late Col. Beaufoy, Vol. I. No. 345.
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