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EARLY

PROCEEDINGS

OF THE

AMERICAN PHILOSOPHICAL -SOCIETY

FOR THE

PROMOTION OF USEFUL KNOWLEDGE,

COMPILED

BY ONE OF THE SECRETARIES,

FROM THE

MANUSCRIPT MINUTES OF ITS MEETINGS

FROM

1744 то 1838.

PHILADELPHIA:

PRESS OF McCalla & STAVELY, 237-9 DOCK STREET.

Q 11 P49

PREFACE.

On March 16, 1883 (Proc. Vol. XX, p. 649), Prof. J. P. Lesley, the Librarian of the Society, reported that he had completed his manuscript condensed copy of the Proceedings of the Society from 1744, the date of its earliest records, to the last meeting in December, 1837, after which time the Proceedings were regularly printed, the first issue of 1838 being numbered one. From the minutes, which occupy ten volumes in the handwriting of various distinguished members of the Society, the manuscript for the printer was arranged by Prof. Lesley according to the system reported by him to the Society (Proceedings Vol. XX, p. 675 et seq.), "using a certain number of easily understood contractions, such as Soc., Lib., Don., Com., for Society, Library, Donation, Committee, &c., * * * giving important resolutions verbatim. * * * following unusual spellings by the signal (sic)."

The importance of the present publication will be still more comprehended when it is realized that these early records have been always exposed to the danger of destruction, most especially by fire, in which case, as no copy of them is known to exist, such a loss to the Society would be irreparable.

"Most of the names of noted Philadelphians appear in these minutes as well as many famous men of other portions of the United States and of foreign countries.

"Not the least important feature of the record is its repre-

sentation of the first appearance of potent ideas; the first steps for the improvement of the mechanic arts; the first steps taken in scientific paths; early explorations of the New World, with a pronounced eagerness to import the faculties of the Old World into it. It is not so much a record of the growth of an American Society as a record of the growth of society in America, and in this sense alone it possesses an extraordinary historical value. * * * The reader will probably feel what the biologist experiences while spending some hours in watching through his microscope the metamorphosis of one of the protozoa."

Those great men who sought to promote useful knowledge in America wasted no time in futile and objectless researches; it will be noticed that among their earliest endeavors was a plan to construct a canal to connect the waters of the Delaware and Chesapeake bays, and yet another to encourage the growth and manufacture of silk in Pennsylvania, the former not accomplished till over a half century later, the latter only successful within the past decade.

The multifarious duties and engagements of Prof. Lesley not permitting him to superintend the printing of the volume which he had prepared, I was requested by the President of the Society, Hon. Frederick Fraley, LL.D., to see it through the press, and in so doing I have read and corrected all the proofs, and have prepared the first Index, that of subjects; the second, that of names, was entrusted to the assistant to the Librarian, but the work was supervised and the proof read by myself.

The publication of these minutes, (to use the language of the Report above referred to,) "it is to be hoped, will give a lively satisfaction to the members of the Society, who will then for the first time be able to gratify a natural and affectionate curiosity respecting the origin, growth, struggles and labors of the venerable institution to which they belong."

HENRY PHILLIPS, JR.,

One of the Secretaries of the A. P. S.

PHILADELPHIA, November, 1884.

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To How Comellader Colon Light

Sour northern Son

PROCEEDINGS

OF THE

AMERICAN PHILOSOPHICAL SOCIETY,

HELD AT PHILADELPHIA, FOR PROMOTING USEFUL KNOWLEDGE.

VOL. I. PART I.

1744 to 1837.

No. 1.

[The earliest records of the Society are comprised in a thin volume, bound in half Russia, and marked on the back 1768, the first page of which is occupied by the following letter from Franklin to Mr. Colden.]

New York, April 5, 1744.

SIR

Happening to be in this City about some particular Affairs, I have the Pleasure of receiving yours of the 28th past, here. And can now acquaint you, that the Society, as far as relates to Philadelphia, is actually formed, and has had several Meetings to mutual Satisfaction; -assoon [sic] as I get home, I shall send you a short Acct. of what has been done and proposed at these meetings. The Members Physician are Dr. Thomas Bond. 28

M^{r.} John Bartram — as — Botanist

Mr. Thomas Godfrey — as — Mathematician

Mr. Saml. Rhodes* - as - Mechanician

- as - Geographer Mr. Hm Parsons

as General N

President Dr. Phineas Bond General Nat. Philosopher

Mr. Thos. Hopkinson Mr. Wm. Coleman - Treasurer

B. F.__ — Secrety

To whom the following Members have since been added * Written thus by Franklin. "Rhoads" in the list.

viz. M^{r.} Alexander of New York. M^{r.} Morris (Ch. Justice of the Jerseys). M^{r.} Home Secretary of D^{o.} Mr. Jn^{o.} Coxe of Trenton, and M^{r.} Martyn of the same Place.—M^{r.} Nicholls tells me of several other Gentlemen of this City that incline to encourage the Thing.—And there are a Number of others in Virginia, Maryland, Carolina, and the New England Colonies who we expect to join us, assoon [sic] as they are acquainted that the Society has begun to form itself. I am, Sir, with much respect

Your most hume servt

B. FRANKLIN.

The Hone Cadwallader Colden, Esq.

[Twenty-four blank pages of a more modern paper are here bound in. Then sidewise is written the following, evidently an endorsement on the back of a foolscap document, folded once.]

ORIGINAL MINUTES &

FIRST * CONSTITUTION

OF

THE "AMERICAN PHILOSOPHICAL SOCIETY;"
Held at Philadelphia for Promoting
Useful Knowledge—

[The last two lines carefully erased; and under them, in a different and later handwriting, four lines, thus:]

One of the component Societies of the "American Philosophical Society held at Philadelphia for promoting Use [sic] Knowledge."

[Under all, but written transversely and of a later date:]

From January 19. 1768-to Dec. 20. 1768.

[* The word first has been crossed out.]

[The leaf is mounted so as to show the following title in the old handwriting of the former one.]

MINUTE BOOK
OF THE
AMERICAN
PHILOSOPHICAL SOCIETY
From January 1768.

[Then on two pages, facing each other, and in two columns of names on each page, four columns in all]

LIST OF THE AMERICAN PHILOSOPHICAL SOCIETY

When chose	n Names
Old	Benjamin Franklin Esq ^r , LL.D.
members und ne Original Pla egun 1743,	William Coleman Esq ^r
	Mr. John Bartram
	Dr. Thos. Bond
	Dr. Phineas Bond
	Samuel Rhoads. Esq ^r
	Rev ^d Dr. Fra. Alison
Nov* 1767	Dr. Will <u>m</u> Shippen
2.0.	Dr. Willm Shippen Jr
	Dr. Cadwalader [sic] Evans
	Mr. John Lukens, Surveyor General
1768	Mr. Philip Syng
	Revd Dr. Will Smith
our j	George Bryan Esq ^r
	Rev ^d M ^{r.} John Ewing
	Edw ^d Shippen jun ^r Esq ^r
19th	Mr. David Rittenhouse
	Mr. Hugh Roberts
	Mr. Israel Pemberton
	James Tilghman Esq ^r
,	Wm Logan Esqr

Joseph Shippen jun Esq Joseph Galloway Esqr Thos Willing Esqr Benjamin Chew Esqr Dr. Thos Cadwalader Dr. Adam Kuhn Dr. John Redman Mr. Thomas Pryor *Dr. Hugh Williamson †John Dickinson Esq^r Honble John Penn Esqr) Patron Honble James Hamilton Esqr \ Presidt Feb'y 9th Honble William Allen Esqr 26th Lyn Ford Lardner Joseph Richardson Richard Penn John Ross John Allen Andrew Allen James Allen Francis Hopkinson Mr. Ebenezer Kinnerslev Mr. Thomas Coombs Dr. Charles Moore Mr. John Revnell Mr. Jonathan Smith Alexander Stedman Esqr Corresponding members in different Provinces. 1743 Honble Cadwalader Colden, New York Jany. 26th Dr. Garden, South Carol Dr. Lee, Virginia
Mr. Winthrop, Massae Dr. Styles, Connecticu

Obliterated, nearly, at the bottom of the page, and re-written in the column of dates in other and later handwriting.

[†] Not in the column; but inserted in small hand in the column of dates.

[!] Paper torn off before pasting to bind.

March 8th Mr. Edward Duffield Samuel Mifflin Esq. Mr. David Hall, Printer Rev^d M^{r.} Tho^s Barton John Kidd Esq^r Mr. Robert Smith, Architect Mr. Thomas Smith Thos — Barnsley Esq^r Mr. Thomas Bond His Excellency W. Franklin Esq. Mr. Wm West Mr. Robert Proud Joseph Fox Esq^r Mr. James Dickinson Mr. John Rhea Isaac Jones Esq^r M^{r.} Rob^t Strettel Jones Mr. Stephen Watts Mr. Samuel Caldwell Edw^d Shippen Esq^r of Lancaster Thos McKean Esqr of Newcastle Rev^d M^{r.} Richard Peters Rev^d Mr. Jacob Duchè John Foxeroft Esq^r Mr. John Sellers, Surveyor Dr. Thomas Græme Dr. John Kearsley Mr. Sam¹ Purviance jun^r

22d *Mr. Oswell Eve

May 18th Revd Mr. Harding
Mr. Thos Potts
Mr. James Wright
Alex Wilcox Esqr
Mr. Thos Bradford
James Biddle Esqr

^{*}Captain Oswell Eve in the List, published in 1880.

*Revd Mr. Bacon Charles Reade Esq^r John Gibson Esq¹ Wm Smith Wm Livingston Esq^{rs} of New York John Morin Scot Richard Stockton Wm Peartree Smith John Smith Esqrs of New Jersey Samuel Smith Joseph Reade Richard Hockley Esq¹ Mr. James Davidson Augt 18th Honble Mr. Antill of New Jersey Mr. Wm Rumsey †Mr. Wm Holiday Mr. John Davis Dr. Edwd Holyoke of Massachusetts Dr. Anderson of Maryland Dr. Benjamin Gule of Connecticut

Oct 18th Dr. John Denormandie of Bristol
Joseph Kirkbride Esq^r Bucks Cy.
Dr. P. Burgius, Prof. Nat. Hist. Stockholm
Rev^d Dr. Ch. Magnus Wrangel
Christian M°Gee LL.D. of Heidelberg
Dr. Cullen of Edinburgh
Monsieur Buffon at Paris
Rev^d Fred. Farmer, Philada

^{‡Dr.} Sandford of Barbadoes Dr. Warner of Antigua

[After two blank pages, on which the numbers continue, 4 and 5, commence the]

Erased & marked "dead"

[†] This name is later given as Henry Holiday, on May 18, 1768.

[:] This name is given later, on August 16, 1763, as Sandiford.

MINUTES AND PROCEEDINGS OF THE AMERICAN PHILOSOPHI-CAL SOCIETY.

[This heading runs over two pages.]

1768, Jany. 19. Meeting at Mr. Byrne's.

Present: Shippen, T. Bond, P. Bond, Syng, Dr. Smith,

Rhoads, Bryan, Ewing, and Dr. Shippen Jr.

"Agreed to make an addition this [Tuesday] night to the number of our members . . . by the unanimous vote of all present, leaving the rule for future elections to be settled at next meeting."

Chosen: Rittenhouse, Roberts, I. Pemberton, Tilghman, Logan, Jos. Shippen Jr. Galloway, Willing, Chew, Esq^{rs}; Drs. Cadwalader, Redman, Kuhn; Messrs. J. Pemberton,

Pryor, Williamson; & J. Dickinson, Esqr.

Bond, Smith & Shippen, made a committee to request the governor [John Penn] to become Patron; and Hamilton & Allen to become members; "if they accept of this request, they be considered as chosen this night."

Bond, Rhoads, Smith & Ewing; "to revise and print off one hundred copies of the Original Plan... for the use of

the members."

1768, Jan. 26. Meeting at the Indian Queen.

Present: Syng, Galloway, P. Bond, Tilghman, Jos. Shippen, Kuhn, T. Bond, Cadwalader, Shippen, Shippen Jun. Pryor, D^{r.} Smith, Ewing, E. Shippen & Williamson.

Committee report that the governor & other two gentlemen "were pleased in a very polite manner to accept the

proposal of the Society."

"The question being put—'How many members being met (either by regular notice or adjournment) should have power to chuse [sic] new members, make rules, or dispose of any part of the Society's stock?'

"It was unanimously agreed—That Twelve members being thus met, or any larger number, Two Thirds of the whole shall have power to proceed and to do any part or parts of the business aforesaid.

"But that when any new member is to be chosen after this night, he

shall be proposed at one meeting, and voted for by Ballot at the next ensuing meeting, if a sufficient number be convened it be [ing] inserted in the notices that this is to be part of the business of the meeting."

Chosen: Kinnersley, Moore, Reynall, Lardner, Richardson, R. Penn, Ross, A. Allen, T. Coombs, Jas. Allen, Jon. Smith, J. Allen, Hopkinson, Stedman, Dulaney (Md.), Lee (Va.), Garden (S. C.), Stiles (R. I.), Wintrop [sic] of New Cambridge, Mass.

"Agreed that an application be made to the governor by M^{r.} Secy. Shippen, and to the Trustees of the State House, by M^{r.} Galloway, for the use of the Council Chamber, to hold our subsequent meetings in; and also . . . to the Trustees of the College by . . . members . . . connected with the College, to have the use of the House and Apparatus, when the Society chuse [sic] to meet there, or to have any experiments performed before them."

Next meeting to be in the Council Chamber (if . . .) on Tuesday, 6 P. M. for election of officers; notice to be given by D^{r} . Bond.

1768. Feby. 2. Meeting at the State House.

"N.B. The names ta:

"James Hamilton Esq^r, D^{r.} Cadwalader, M^{r.} James Allen, ken down M^{r.} Tilghman, D^{r.} Alison, M^{r.} Kinnersley, D^{r.} Smith, D^{r.} Shipder the members pen jur. M^{r.} Rhoads, M^{r.} Bryan, M^{r.} Joseph Shippen, D^{r.} Thos. were seat Bond, M^{r.} Willing, M^{r.} Ewing. D^{r.} Shippen, D^{r.} Ph. Bond, M^{r.} Pryor, M^{r.} Israel Pemberton, M^{r.} Syng, M^{r.} Combes, D^{r.} Williamson & M^{r.} Jonathan Smith.

"The following Paper from sundry Gentlemen of this City was read, viz.

"A Society having subsisted for some time in this City under the name of the American [*] Society held at Philadelphia for promoting and propagating useful Knowledge, whose Views have been nearly the same with those which are published of the American Philosophical Society, and it being judged that the Ends proposed by both could be carried on with more advantage to the Public if an Union could take Place between them, it is proposed that such Union may take place—

^{*} Here the word " Philosophical" was written and then erased.

- "With which Paper the following List of their Names was sent-viz.
- "Charles Thompson, Edmund Physick, Isaac Paschal, John Morgan, Samuel Powel, Joseph Paschal, Owen Biddle, Clement Biddle, Wm. Bettle, Isaac Bartram, Moses Bartram, John Dickinson, Cadwalader Evans, Nicholas Waln, Benjamin Davis, John Lukens, Thomas Mifflin, David Evans and James Pearson; and Corresponding members David Rittenhouse, Wm. Henry of Lancaster, Wm. Johnson of Carolina and Sam' Bard of New York-
- "On perusal of this paper, signifying the Desire of those Gentlemen of uniting our common Design for the more effectually promoting useful Knowledge—it was resolved—
- "That they be introduced among us by Election; and, on this Occasion, to dispense with that Part of Rule made at the last meeting for members, which requires their being proposed at a previous meeting, and the List of their Names being read to the Society, it was agreed to proceed immediately to ballot for them, and they were accordingly chosen agreeable to said List-
- "N. B. Mr. Dickinson, Mr. Lukens, Charles Thompson and Dr. Evans, having been formerly chosen in this Society are left at Liberty to come in on this, or their former Election; and Mr Rittenhouse being only an honorary member in the above List and being a regular member of this Society, and having by Letter signified his Desire of joining it any Election of Him was thought unnecessary."

Bond & Smith, a Committee "to let the Gentlemen of the American Society know"

- Dr. Bond reported that the Governor consented to the use of the Council Chamber and that Mr. Galloway had obtained the like consent of the Trustees of the State House.
- "Agreed to meet next Tuesday at 6 o'clock at the State House for the election of Officers; and that notice," &c.

1768, Feb'y 9. Meeting at the State House.

Present: Stedman, Dr. Shippen jun. Syng, Dr. Alison, Jos. Shippen, Williamson, D. Smith, Dr. T. Bond, Willing, Dr.

Shippen, Redman, Jon. Smith, Pryor, Erving, Kinnersley, Combes, Cadwalader.

Bond & Smith, reported that "the Gentlemen of the American Society" had requested a copy of the minutes, and had rec^d it with the following letter, viz.

"Gent. According to our Promise we send you the Minute, tho' we believe our Authority was only to read it to you, but not to copy it, because it was drawn up in Haste, and is not revised by any Order of the Society. However we give it, in Trust that you will not think it proper to enter on your Books, till it is entered on ours; for that might occasion Difficulty in making any alteration, should any be judged expedient by you and us.

—We have only to add that everything respecting you was conducted with the greatest marks of Regard; and that the same good Disposition appeared among our members which your Paper declares of yours, for uniting our common Design, for the advancement of Useful Knowledge.

"It was agreed among us not to admit any new Proposal of Members, besides yours, at our last Meeting, nor to proceed to the Election of Officers, which was to have been the Business of that Night, but to postpone this and every other Matter till next Tuesday, when you have an opportunity of being present to give your Votes and Advice. We are, with great Regard" &c.

"Dr. Shippen Jun. then produced a Paper recd from the American Society the Consideration of which was deferred till the next meeting.

"The question being put, how many Officers this Society should consist of. It was agreed that one President, Two Vice-presidents, a Treasurer & three Secretaries be chosen annually, & that the officers to be chosen this night do continue in their respective offices till the first meeting in January next. But it is not intended by this Minute to prevent the Society from encreasing the Number of V. Presidents and Secretaries, whenever they shall find occasion for it; provided it be proposed at one meeting & such Proposal mentioned in the Notification of the ensuing meeting."

Ballot & Election.

President—Honble James Hamilton Esqr. Vice-Presidents—Dr. William Shippen & Dr. Thos. Bond. Treasurer—Mr. Philip Syng.

Secretaries—Rev⁴ D^{r.} Wm. Smith, Rev⁴ Mr. John Ewing, & D^{r.} Chas. Moore."

Ordered that Stedman, Willing & Alison, with the officers, be a Committee to revise the Minutes since the beginning of the year, "enter them fair in a Book, & prepare a Draught of some Laws or Rules to be laid before the next meeting," the 2^d Tuesday in March.

Jos. Shippen & Dr. Shippen Jr. a Committee to thank

the Governor & Trustees of the State House.

1768. March 8. In the State House.

Present: His Honour the Governor, Patron; the two V. Presidents; and Cadwalader, Lardner, Tilghman, J. Allen, Rhoads, W. Shippen jun, Coombe, Alison, Lukens, Jon. Smith, Jos. Shippen, Stedman, Ed. Shippen, Willing, And. Allen, Williamson, Redman, Phin. Bond, W^m Smith, & Ewing.

Minute of the American Society Feby 2^d read & ordered to be inserted in our minutes, viz.—

"Tuesday Fby 9th 1768. At a meeting of the American Society for promoting & propagating useful Knowledge, held at Philadelphia:—

"The Minute of the American Philosophical Society of the 2^d Inst. which declares our Election into that Society, being considered it was unanimously determined, that as it was not on the Terms proposed, we are under a necessity of declining the union. Ordered that the Secretary deliver a Copy of this Minute to a Member of the Philosophical Society, to be laid before them—Owen Biddle Secy for the Time being."

The Committee on Laws reported a Draught, which was read corrected & ordered to be "entered in the Book of Laws, Orders, &c."

The Minutes since Monday Jany 19 "were read over, considered & approved."

Andrew M°Nair was appointed Messenger & Doorkeeper; & D^{r.} Shippen junr. to learn his terms.

A fine of one Shilling for non-attendance of members at meetings was ordered as an additional by-law.

The six organic committees were then constituted by dis-

tributing the members present among the committees; "each member signing his Name in that Committee of which he is. See the Committee Lists."

Election of new members:-

E. Duffield, S. Mifflin, D. Hall, T. Barton of Lancaster, J. Kidd, R. Smith, T. Smith, Captn Barnsley, T. Bond junr. Gov. Franklin of New Jersey, W. West, R. Proud, Jos. Fox, Jas. Dickinson, J. Rhea, I. Jones, R. S. Jones, St. Watts, S. Caldwell, E. Shippen of Lancaster, T. McKean of Newcastle, Rev^d Mr. Peters, Rev^d Mr. Duchè, J. Foxcroft, J. Sellers, Dr. Græme, Dr. Kearsley, & S. Purviance jun.

Adjourned for two weeks.

"The Secretaries having been first appointed to prepare Something, in conjunction with Jas. Tilghman and Edwd. Shippen junr. Esqrs. that may be proper to be published for informing ingenious Persons of the Constitution of the Society & how to correspond with or communicate any useful Papers to them. The Draught of this proposed Publication to be laid before next meeting."

1768. March 22.

Present at 7 o'clock V. P. Bond & Shippen; Secs. Ewing & Smith, Fox, Wm. Shippen Jr., Syng, Coombe, Rhoads, Græme, Steadman, Jos. Shippen, Dickinson.

Came in afterwards, Phin. Bond, Alison, Jon. Smith, Duffield, Williamson, Watts.

"Andrew M°Nair agrees to wait on the Society, make the Fires, light ye Candles and extinguish them, & keep the Room clean, for four shillings a Night for the current year."

D^{r.} Rittenhouse communicated (through D^{r.} Smith) a Description of his new invented Orrery.—Referred to Com. on Ast. &c. next Tuesday evening, at 6 PM. at the College.

"See the Description, No. 1, of the Book of original Papers, of—

"A Machine for the more effectual & ready Preparation of Flax, invented by Mr. Joseph Elliott of Bucks county,

was read and referred to the Committee for Mechanics &c. to meet for the consideration of it as soon as they can conveniently at the College."

Election of one new member: Mr. Oswell Eve, previously proposed.

1768. April 19. At the State House. (11 members.)

The Committee on Rittenhouse's Orrery reported that "they think M. Rittenhouse deserves great applause for having projected so useful and curious a machine, & that if it shall answer his Intention, which they have the greatest Reason to expect from his Known Abilities, they are of opinion that it will do honor to himself & to this Province, the Place of his Nativity; and the Committee beg Leave to recommend it to the Society to order his Description to be published; not doubting but it will give Pleasure to Persons of a curious and Philosophical Turn." It was so ordered.

M^{r.} Syng reported from the Com. on Elliotts Machine for Swingling Flax "that they believe it would be a useful Invention for this Country, but that a fuller Description of it would be necessary to enable them to form a proper Judgement of it." M^{r.} Smith was desired to write to M^{r.} Elliott accordingly.

- "Dr. Williamson acquainted the Society that he had received from Mr. Joshua Gee of Gainsborough in England, the Description of a Plough, which he believed would be of great use in this Country & that he had a model of the Plough; which was referred to the consideration of the Committee for Mechanics and Husbandry."
- "Dr. Bond communicated a new Plan for Keeping a Meteorological Register." Referred to Com. for Nat. Philosophy. See No. 2 of Original Papers."
 - "Mr. Ewing communicated the following Proposal, viz.

"Gentlemen. After having gone thro the Calculation & Projection of the next Transit of Venus over the Sun, on the 3d of June 1769, I find that the Beginning and a great Part of it will be visible at Philadelphia, if the weather should be favorable. As much depends on this important Phenomenon & as Astronomy may be brought to a much greater Perfection than it has yet arrived at by a multiplicity of accurate observations made of this Transit in different parts of the World & compared together; I would hereby propose to this Society that effectual Provision be made for taking the said observations in this City. This is the more necessary as such another Opportunity will not be presented for more than a Century to come. Jno. Ewing."

"It was recommended to the Committee for Nat. Philosophy & Astronomy to consider the above Proposal & make some Estimate of the probable Expense for making the Observations & the Preparations necessary for the same."

[Then follows a list of names, without any reference or explanation of its import.] Rev^d M^{r.} Harding, Captn M^cPherson, Jas. Watson, T. Potts, Jas Wright of Lancaster Co., W^m. Hicks, Alex. Wilcox, Rev^d M^{r.} Bacon of Md., Jas. Biddle, J. Gibson, C. Reade of Burlington; W. Smith, W. Livingston, J. Morin Scott & Rev^d M^{r.} Rogers of New York; Rich. Stockton & Wm. Peartree Smith of New Jersey; J. & S. Smith of Burlington; Jos. Read of Trenton; Rich. Hockly, Jas. Mease & Jas. Davidson.

1768. May 18. State House. (Rittenhouse & 14 others.)

Ewing's proposal "was further referred to the Com. for Nat. Phil. & Ast. to meet at the College, 6 PM, June 7.

Com. on Husbandry, recommended to meet at the College, Tuesday May 31, to consider "whether any method can be fallen upon for preventing the damage done to wheat by the Hessian fly. "N. B. M. Du Hamel has written on this subject."

Members proposed:—Dr. Warner of Antigua; Honble Mr. Antill; Mr. Wm. Rumsey & Mr. H. Holiday of Md; & Rev^d John Davis.

Members voted for & chosen:—Rev^d M^{r.} Harding; T. Potts; Jas. Wright; Alex. Wilcoks [sic]; T. Bradford; Rev^d M^{r.} Bacon; Jas. Biddle; J. Gibson; Ch. Reade; W. Smith

of N. Y.; W. Livingston; John Morrin [sic] Scot [sic]; Richa Stockton; W. Peartree Smith; John Smith; Sam. Smith; Joseph Reade [sic]; Rich. Hockley; Mr. Davidson.

1768, June 21. (13 members.)

"D^{r.} Smith laid before the Society a Projection of the ensuing Transit of Venus over the Disc of the Sun, which was communicated to him by M^{r.} D. Rittenhouse of Norrington."

M^{r.} Ewing read a paper containing the result of his calculations and exhibited a projection of the Transit "on a very large scale, containing all the Elements of the Projection & the Effect of the Parallaxes in Longitude & Latitude; in altering Times of Beginning and End of the Transit at Philada which the Society order to be published; See No. 3 of Original Papers."

[Then follow in a letter to the Society his data in 64 closely written lines of fine handwriting, signed Jno. Ewing.]

"Dr. Smith, Mr. Rittenhouse, Mr. Lukens & Mr. Dickinson are desired to make the necessary Preparations & to observe the Transit at Norrington."

"M^{r.} Ewing, D^{r.} Williamson, M^{r.} Joseph Shippen & M^{r.} Prior are desired to erect an Observatory & make Preparation for ascertaining the Longitude of Philadelphia, & for observing the Transit, & the Society agree to defray the expenses of the said Observations in both the aforesaid Places."

The Com. for Husbandry reported a paper on the Hessian Fly by D^{r.} Bond, which was read & D^{r.} Bond was requested "to prepare it for the Press, that it may be communicated to the Public without Loss of Time. See N° 4 of Original Papers."

"A Specimen of Wine made of American grapes with the receipt for making it was communicated by M^{r.} R. S. Jones. See N^{o.} 5. [The receipt follows, in six lines.]

Two samples of American Wine were exhibited by Dr.

Alison, who was requested to obtain the receipt for making it "that it may be recommended to the Public."

A specimen of Yellow Oker from Pequea & another from Cecil Co. Md. were laid before the Society by $M^{r_{:}}$ R. Syng.

"A Magic Square containing all Numbers from Unity to 360" was shown by M^{r.} Ewing, who "read a Paper containing a general Rule for making such squares of any proposed Dimensions, which the Society order to be published & is as follows:—

"Gentlemen—Finding in a late Publication of M^{r.} Ferguson a Magic Square . . . " [Here follow three closely and finely written pages of description, with the diagram of the Square, and a list of four of its properties: viz.]

- 1. The sum of the numbers in each horizontal, perpendicular or diagonal Row is 3420.
- 2. The sum of the numbers in each of the said Rows in any of the included Squares . . . is equal but lessening by 360
- 3. The sum of any two numbers equally remote from any included Square is equal to double the central Number, or equal to 360.
- 4. These last mentioned numbers are the complements of each other to 360.

[Then follows a blank page numbered 22.]

1768, July 19. D^{rs} T. Bond, W. Shippen & A. Kuhn, & Messrs. Ewing, Steadman, R. S. Jones, Watts & Thos. Bond, & Rev^d D^r. Alison.

"The Society taking into consideration the best Means of destroying Garlic out of the Fields, where it grows, have agreed by public Notice, in the News Papers to request the Favour of any Gentleman acquainted with that Subject to communicate to the Society any Method that has been found effectual for that Purpose.

"The Society would be obliged to any Gentleman that would communicate to them any Method of making Wine of the American grape, without Sugar or Water or the best way of making it with that addition."

1768, August 16 (State House). (V. P. Bond; Secs. Smith & Ewing; Stedman, Dickinson, Biddle, Pryor, Shippen junr., Kuhn, Davidson, Syng, Jones, & Williamson.)

The model of Mr. Josh. Gee's Plough was exhibited by Dr. Williamson, who read a description of it, which was order-

ed to be published "for the good of the Community."

"Here insert the Description of Mr. Gee's Plough" [But no such insertion was made, & no blank left for it.]

Members proposed: - Joseph Kirkbride, Esq; and Dr. Denormandie, both of Bucks county; and Mr. Vassal of Phila-

delphia.

Members elected: -Honble Mr Antill of N. J.; Mesrs. Wm. Ramsey, H. Holiday & Dr. Anderson of Md.; J. Davis of Phil. Co.; Dr. E. Holyoke of Mass.; Dr. Ben. Gale of Conn.; Dr. Sandiford of Barbadoes; & Dr. Warner of Antigua.

1768, September 20 (State House). (V. P. Shippen & Bond; Sec. Ewing; Syng, Rhoades, Alison, Harding, Shippen junr. T. Bond, Jon. Smith & Dickinson.)

A specimen of Wine made of the American small black grape, without water or sugar, in 1765, "which appears to be perfectly sound and delicious to the Taste" was exhibited by Dr. Syng.

An analysis of the Chalybeate waters of "Bristol in this Province" in a letter from Dr. Denormandie:-

Specimens of Sunflower seed oil; and Cotton seed oil, with an account of them in a letter from Dr. Otto, were presented by Dr. Bond.—Thanks were ordered to the gentlemen "for their friendly communications," which were "referred to the Medical Committee to be published under their Direction, without loss of time . . . that people may be induced before the Season is too far advanced to collect the seeds and make some quantities of the Oil."

"The papers were accordingly published in the Pennsylvania Gazette and Journal October 6th, and are as follows, viz. [Only the title & commencement is inserted, and then " Vid. the Gazette."]

"Mr. Jas. Dickinson, one of the members of this Society, made the following very useful and public-spirited proposal for observing the ensuing Transit of Venus at James's Bay, and for reconnoitering and making a map of the Country from the South End of Hudson's Bay and to extend thence towards the Head of the Missisippi [sic]—

"Here insert M^{r.} Dickinson's Proposal, as in the Gazette of Nov^r 18.

"Mr Dickenson at the same time offered to undertake in Person the Conducting of the Observation of the Transit and making the other necessary Observations of the Country, for which laudable Instance of public Spirit the Society thinks he deserves great Honor; and the Committee for Natural Philosophy & Astronomy is appointed to consider further, both of the Practicability & usefulness of this Undertaking & the probable Expense that might attend it.

"The Society, considering the expense that will attend the Observations of the Transit of Venus, already appointed to be made in this Province, as well as the additional Expense that will arise if M Dickinson's Proposal should be carried into Execution, do agree to address the honble House of Assembly of this Province, praying their assistance in the aforesaid useful Undertakings—; and the following gentlemen are appointed to draw up & perfect an Address for that Purpose; viz—"Dr Bond, Dr Shippen, Stedman, Rhodes, E. Shippen, Willing, Ph. Bond, Dickinson, Dr Smith, & Ewing," "& to meet as soon as possible on this business."

Dr Shippen junr. to request Mr. Allen to write to Sr Wm Johnson to know whether the Indians would allow proper Persons to pass through their Country for the above mentioned Purposes."

Seeds of the Rose Apple sent by Capt. Reddle; a Specimen of American Rhubarb from the seeds of the Russian Rhubarb, sent by L. Antill; & some Cucumber tree, aromatic & resembling Cucumbers for Pickling, sent by Jas. Wright of Susquehanna were exhibited by Dr. Bond & referred to the Medical Committee.

Corresponding Members proposed: Dr. P. Burgius, Prof. N. H. Stockholm; Rev^d C. M. Wrangel; Christian Magee, L L D of Heidelberg; Dr. Cullen of Edinburgh & Monsieur Buffon of Paris.

Member proposed: Mr. Ferd. Farmer of Phila-

1768. Oct. 18. State House. (V. P. Bond; Secs. Ewing, Smith; Galloway, Barton, Willing, Coombe, Dickinson, Jones, Pryor, Bradford, T. Bond, Davis, Shippen jr. & Kuhn.)

Committee reported a draft of the Address; see Gazette of Nov. 10th. Dr. Bond reported that the Speaker had notified him "of the Success of the above Address" in the following very obliging Terms, viz—

"M" Galloway presents his compliments to D' Bond. The Assembly voted a sum not exceeding One hundred Pounds Sterling for purchasing a reflecting telescope &c; and he proposes to send for it by the first opportunity, agreeable to an Order of the House. He would, therefore, be glad to be furnished with any Information relative to the Construction thereof that may be thought necessary, as soon as may be"—

"The Society, considering the very Kind, generous & polite manner, in which the honble House of Assembly, from an unanimous Desire to promote useful Knowledge, and the Regulation of the Province, have been pleased to grant the Prayer of their Address aforesaid, do appoint the Committee who prepared the same, to frame another address to be presented to the House at their next Sitting, expressive of the great Gratitude with which the Society receive this Mark of the Assembly's Countenance and Protection in carrying on the Design of their Institution."

Election of 8 new members: [see list given on previous page] Denormandie, Kirkbride, Bergius, Wrangel, Magee, Cullen, Buffon, Farmer.

Corresponding members proposed: His Excellency General Gage, the Hon^{ble} Sir Wm. Johnson, Bart. & M^{r.} Wm. Logan of Bristol.

1768. Nov. 15. State House. (V. P. Bond; Secs. Smith & Ewing; Syng, Rhoades, Pryor, Barnsley, Davidson, Jas. Allen, Shippen Jr., & T. Bond.)

The seed of the Black Alder of Jamaica, used instead of Black Pepper in that island, with an agreeable mixture of the flavor of Ginger & Pepper, & possibly of great use in Diet & Medicine, sent by M^{r.} Law, was presented by D^{r.} Bond.

Col. Landon Carter's (of Sabine Hall, Va.) "ingenious & accurate Observations concerning the Fly Weavil that de-

stroys the Wheat" were transmitted by Col. Lee. "The Society acknowledge themselves under great obligations to Col. Carter for the communication of the conclusions he has formed (on long experience) concerning that insect's propagation & progress, & the methods to be used to prevent the destruction of the wheat by it; & order it to be printed for the public benefit."

"This Society having been informed that there is a Disposition in the Members of the American Society for promoting useful Knowledge to unite with us, & that they would appoint a Committee to treat with a Committee of this Society upon the Subject; and we being desirous to promote such a Union do appoint Dr Shippen, Dr Bond, Mr Syng, Mr Rhoads, Dr Smith, & Dr Ewing to be a Committee to concert Measures & prepare the way for such Union, & to make report of their Proceedings to the next Meeting.

M^{r.} Thos. Brown presented a Box of Medals to the Society.

Members proposed: Gilbert Hicks of Bucks, Matthias Aspen, & Dr. Sam. Duffield of Phil^a.

Corresponding members proposed: Rev^d Chauncey Whittlesey of N. Haven, Rev^d Nat. Hooker, of Hartford, Rev^d S. West of Dartmouth, & Col. Francis Lee of Virginia.

1768, Dec. 20, State House. (V. P. Shippen & Bond; Secs. Ewing & Smith; Pemberton, Fox, Syng, Alison, Rhoades, Shippen Jr., Jones, Bradford, Farmer, Redman, Kuhn, Williamson, T. Bond, Dickinson, Davidson, Kinnersley, & Jon. Smith.)

Hignet Keeling's proposal relating to the Improvement of the Silk Manufactory was referred to the Com. on Husb. & Amer. Improvements.

Dr. Jas. Weems Moore's letter concerning the Bite of a Rattle-Snake was read & referred to the Medical Committee.

Election of members: Gage, Johnson, Logan, Hicks, Aspin [sic], Duffield, Whittlesay [sic], Hooker, West & Lee. [See above.]

"D" Williamson mentioned that he had received some curious Papers from D' [blank] of Florida on Natural His-

tory &c., which were referred to the Committee of Nat. History."

"The Committee . . . to confer . . . acquainted the Society that they had drawn up their Report in Writing; which being twice read; an addition was proposed to the 4th Article & some alteration in the 5th and 8th, and some members from the other Society, having in the mean time delivered a message to this Society, importing that the other Society were now met on Purpose to wait the Result of this Society concerning the Plan of Union; Dr Smith & Dr Shippen junr were appointed to accompany the said members to lay before them the Proposed addition and alterations, who being returned, informed this Society that the same were cheerfully agreed to by the other Society. Then ordered that the Report & Articles as now amended, be entered on the minutes as finally settled, as follows, viz.

"The Committee appointed at last meeting of this Society to confer with the Committee of the American Society held at Philada for promoting useful Knowledge do report that they had twice met the said Committee in order to prepare the way for uniting both Societies, agreeable to the Instructions given them.

"That the first meeting was at M' Bryne's on Tuesday Evening, November the 6th; and the whole Terms as then settled are as follows, viz.

"Whereas two Societies subsist in this City, whose Views & Ends are the same, viz. The Advancement of useful Knowledge; and it being judged that their Union would be of public Advantage; it was agreed that such *Union* should take Place, on Terms of perfect Equality; & for that Purpose it was thought reasonable—

"That a new Name, made out of the former Names of both should be fixed for the United Society, and the following Name was accordingly agreed to, viz.

"The American Philosophical Society, held at Philadelphia, for promoting Useful Knowledge."

"2. That besides the members which stand proposed, no new Members be proposed or elected by either Society till this Treaty is finished.

"3. That the first meeting of the united Society be at the College, on Monday the 2^d of January next, at 6 o'Clock in the Evening.

"4. That there shall be one Patron, one President, three vice presidents, one Treasurer, four Secretaries & three Curators; & that all the said Officers be chosen by Ballot, at the first meeting, viz. the said 2^d Day of January; (excepting only that instead of electing a Patron, a Committee of the united Society be appointed at said meeting, to wait on the Governor

of the Province & to request him to be Patron) which Officers shall continue in their Respective Offices till the first meeting of the United Society which shall be in January 1770; when & at every first meeting of January which shall be in every Year there shall be a new Election of Officers.

- "5. That after the Union a Committee be appointed to form a new Sett* of Laws, taking in what may be thought proper out of the former Laws of both Societies.
- "6. That each Society, before the first of January pay off their Respective Debts and the Treasurers of the former Societies shall account & settle with the New Treasurer to be chosen & pay him the Balances in their Hands.
- "7. That the Books & all the Curiosities &c of the former Societies be deposited in the Cabinet or elsewhere as the United Society shall direct.
- "8. That in the joint Publication which it may be thought proper to make of the Transactions of the former Societies, no preference shall be given to the Papers of either, but they shall be arranged & digested according to their Subjects & Dates.
- "9. That there shall be a New Book of the future Transactions of the United Society; beginning with the following Preface, or Declaration, viz.

"Whereas [a repetition of the above]

- "This Book therefore is to contain only the Transactions of the United Society under the Name aforesaid. What further relates to the Terms of union, as, well as the former Transactions of each Society, being antecedent to the Commencement of this Book, may be found in the old Books deposited in the Cabinet."
- "Dr. Smith informs the Society that he had received from Mr. Barton some very interesting Papers written by Mayor Rogers concerning the Trade &c at Michilimackinack, which were referred to the Com. on Trade & Commerce."
- "M^{r.} Thos. Bond & M^{r.} Robt. Strettel Jones are appointed to collect the yearly Subscription money of the Members & to pay the same into the Hands of the Treasurer."

[Two blank pages follow & then four pages, ruled, of the "Laws & Regulations of the American Philosophical Society," in eleven Sections; Sect. 1. 2 & 3 "passed 26th Jany." 1768; Sect. 4, to 11, "Laws made 8th March" 1768.]

Sect. 1. On the Election of Members.

[Two blank pages follow; and then, in six columns, the autograph signatures of the members of the six Committees. At the end of the volume are 26 blank pages, of which 24 are of a more modern paper.]

^{*} First written Set & afterwards corrected to Sett.

VOLUME 1769-1774.

[These minutes are contained in a book of 176 pages which begins thus:]

"Minutes of the American Philosophical Society, held at Philadelphia, for promoting useful Knowledge."

"Two societies having heretofore subsisted" [&c, as directed by previous order of December 20, 1768; see above].

1769. Jan. 2 [Monday]. At the College.

"Present 89 members."

"The members being met in order to proceed to an Election of Officers agreeable to the article of Union, appointed M^{r.} Philip Syng & John Foxcroft Esq. to preside as Judges of the Election & the Rev^d Doctr. Willm. Smith & Charles Thompson to be Secretaries for the evening.

"They then proceeded to ballot by each member giving in a list of such persons as he chose for Officers of the Society for the present year, and the Tickets being read over and the votes Counted the following Members of the Society

were declared duly elected, viz.

" President, Benjamin Franklin Esqr LL.D.

"Vice presidents, Dectr. Thomas Cadwalader Doct. Thomas Bond &

Joseph Galloway Esq^r

"Treasurer, Mr. Philip Syng
"Secretaries, Mr. Charles Thompson

The Rev^d Doct William Smith

Mr. Thomas Mifflin

The Rev^d M^r John Ewing.

"Curators, Doctr. Adam Kuhn
Doctr. John Morgan
Mr. Lewis Nicola

"The President being absent Doctr. Thomas Bond was placed in the Chair and agreeable to the Articles of Union a Committee composed of the three Vice presidents was appointed to wait on the Governor and request him to be Patron of the Society.

"The Vice presidents are also desired to inform D^{r.} B. Franklin, now in London, of his Election.

Messrs S. Rhoads, Js. Pemberton, Ed. Shippen junr. Jas. Tilghman, Ed. Pennington, & G. Roberts with the four Secretaries, a Committee to draught Laws.—Adjourned to Monday, 16th at 6 P. M.

1769. Jan. 16. At the College. (Cadwalader, T Bond, Galloway, Tilghman, Pemberton, Syng, Rhoads, Foxcroft, Bringhurst, Clem. Biddle, Davidson, Nicola, R. S. Jones, Clarkson, Clark, Kuhn, Alexander, Pearson, Levezy [sic], E. Pennington, Jos. Shippen, Jas. Allen, E. Biddle, Bartram, Worral, Okeley, Sellers, W. Shippen, Morgan, W. Shippen jun., Murgatroyd, Evans, Clifford, Aspden, Hollingsworth, T. Bond jun. & Morris., W. Smith, Ewing & Thomson, Secretaries.)

The Vice Presidents report that the Governor declined to be Patron.

Draught of Laws read & laid over "in the hands of Charles Thompson for the view of such members as please to peruse them."

Sample of Chinese Vetches, six bottles of Soy and six pounds of powdered Sago, presented with a letter from S. Bowen of Georgia.

Sir W^m Johnson's letter of thanks for membership.

D. Cirillo (of Naples) letter of thanks for being proposed for membership "intimating that they have in Italy a great many trees, fruits & plants . . . of great use to

human life, & which may be easily introduced into America. That in the Kingdom of Naples are several plants very good for making artificial Grass, and especially one . . . Hedysanum coronarium . . . spring and summer . . best grass . . . winter . . . very good hay."—Adjourned to Friday, 20, 6 P. M.

1769. Jan. 20. At the College. (37 present.)

The Sago, Soy & Vetches "lately introduced into Georgia by S. Bowen" with his letter & description were "deferred until the laws were passed & the Committees formed."

The Draught of Laws was read, debated & Articles 1 to 7, & 9 to 12 agreed to. The 8th relating to Curators was recommitted to D^r Bond, the 3 Curators and 4 Secretaries, to frame anew.—Adjourned to 1st Friday of Feb'y, 6 P.M.

1769. Feb'y 3. At the College. (24 present.)

Article 8th was read, amended & added to the rest. "The whole as passed are as follows:"

1.

OF THE PAYMENTS TO BE MADE BY MEMBERS.

Every member of this Society shall subscribe Ten shillings yearly, to be applied by the Society to such purposes as they shall direct, and no member shall be entitled to a vote in the annual Election of Officers, unless it appears that he has paid into the hands of the Treasurer the subscription of the preceding year and all former arrears, if any there were.

Every member hereafter to be chosen agreeable to the laws of this Society shall pay Ten shillings admission money and also subscribe the yearly payment of Ten shillings before he is entitled to have any vote in

the business of the Society at their meetings.

2.

OF THE ELECTION OF MEMBERS.

The Election of new members shall be by ballot, and that only on the third Friday in the months of January, April, July and October: and in order to such election at least Twenty members must be present.

Any member may at any meeting propose such person or persons as he

thinks proper to be a member or members of the Society; but no person shall be balloted for, unless his name together with the name or names of the member or members, who proposed him has been filled up by the secretaries for the view of the Society at the two meetings preceding the time of election: nor shall any person be deemed duly chosen, unless three-fourths of the votes of the whole members met be in his favor.

3.

OF THE OFFICERS AND MANNER OF THEIR ELECTION.

The election of such Officers as are to be chosen in this Society shall be on the first friday in January every year by ballot on written ticket, between the hours of two and five in the afternoon, at such place in this city as shall be fixed by the Society at their previous meeting on the third friday in December every year, of which notice shall be given in the Gazzette or such other publick papers as the Society shall order, at least one week before the day of election. Before opening the election the Company that shall have met at half an hour after two, shall appoint three members of the Society as judges of the election, and also two clerks or secretaries.

In case of an equality of votes for any Officer after casting up the ballots, the decision shall be by lots to be drawn by one of the Judges.

4.

OF THE PRESIDENT.

The President is to preside at all meetings, to preserve Order, to regulate the debates and to state and put questions agreeable to the sense and intention of the members.

5.

OF THE VICE PRESIDENTS.

In the absence of the President, his duty shall devolve on the vice presidents, so that they shall preside alternately at meetings: but if that vice president, whose turn it is to preside at any meeting should be absent, his place shall be supplied by any of the other vice presidents, who may be present according as they may be next in turn: if only one vice president be present, he shall of course preside: and if neither the President nor any vice president be present, the members met shall appoint one of their number to take the chair for that Evening.

6

OF THE TREASURER.

The Treasurer shall receive the subscription of the members and all other monies that may become due to the Society, and shall pay the same

agreeable to their orders certifyed to him by the President, vice president, or member who was in the chair, when the order was made. He shall keep a regular account of all monies received and paid by him as aforesaid, and once every year or oftener, if required by the society, he shall render an account to them of the stock in his hands and the disbursements made by their order, and shall deliver up to his successor the books and all papers belonging to them, together with the balance of Cash in his hands, and for the faithful discharge of his trust he shall before he enters on his Office give bond and security to the president and vice presidents, in double the Sum which they or any three of them shall judge he may probably become entrusted with during his said Office.

7.

OF THE SECRETARIES.

The Secretaries shall so settle matters as to take equal shares of all business, and so as that two of them shall serve at every meeting viz one to take the minutes and one to read all letters and papers that may be communicated to the society. It is also the business of the two secretaries of each particular meeting to copy into the minute book the proceedings of that meeting in order to produce the same fair to the next meeting. They are further to copy into the proper books all such Letters, papers and essays as the society may think fit to preserve on record to have the same ready to lay before the next ensuing meeting. The other two secretaries, in the meanwhile are to give notice to new members of their election, and agreeable to the directions of the society to write or answer letters and in general to manage all matters of correspondence.

The secretaries may, for their own ease, change places so that the two who have served as corresponding secretaries for one month or limited time, shall take their turn to serve for the same time as sitting or attending secretaries.

8.

OF THE CURATORS.

The Business of the Curators shall be to take charge of and preserve all specimens of natural productions whether of the animal, vegetable or fossil kingdom, all models of machines and Instruments and all other matters and things belonging to the society which shall be committed to them; to class and arrange them in their proper orders and keep an exact list of them with the names of the respective donors in a book provided for that purpose, which book shall be laid before the society as often as called for. The curators upon entering on their Office shall give such a receipt for every thing that is committed to their charge, as the society shall think proper, and at the end of the term shall deliver up the same to their suc-

cessors. For the faithful performance of their duty and of the trust reposed in them they shall give bond to the President and vice presidents in such a sum as they or any three of them shall require.

9.

OF THE MEETINGS OF THE SOCIETY.

The ordinary meetings of the society shall be the first and third fridays of every month from October to May both inclusive at six o'clock in the evening, and on the third friday in each of the other four months at seven o'clock.

No meeting shall be continued after ten o'clock, nor any new matter be introduced by motion or otherwise after nine o'clock.

10.

OF THE DISPOSITION OF MONEY & MAKING NEW LAWS.

No part of the Society's stock shall be disposed of in premiums or otherwise, nor shall any new laws be made until the same have been proposed at one meeting and agreed to by two-thirds of twenty or more members present at a subsequent meeting.

11.

OF OTHER PROCEEDINGS OF THE SOCIETY.

No questions shall be put on a motion, unless the motion be seconded; and the determination shall be by ballot instead of open suffrage, if desired by any four members. In case of equality of votes on any question the same shall be deferred to another meeting.

When any member speaks he shall stand up and address himself to the chair, and the rest shall remain silent in their seats. When two or more offer to speak at the same time, the presiding member in that as in other matters of order shall regulate and determine who shall speak first.

12.

OF COMMITTEES.

The members of this society shall be classed into one or more of the following committees.

- 1. Geography, Mathematics, natural philosophy & Astronomy.
- 2. Medicine and Anatomy.

- 3. Natural history and Chemistry.
- 4. Trade and commerce.
- 5. Mechanics and Architecture.
- 6. Husbandry and American Improvements.

These committees shall meet on their own adjournments and at such other times as the society shall appoint for the consideration of any matters referred to them, and shall have power to chuse [sic] their own chairman. But no committee as such shall take up any new business of the society, but shall confine themselves only to the subjects for which they are appointed and to matters referred to them by the society.

The Telescope being "speedily expected" it was ordered that Secs. Rhoads and Pemberton prepare an address to the Assembly on the occasion.

Dissertation on the method of destroying Wild Garlic, from H. Hollinsworth of Elk Ridge, was read & referred to the Com. of Husb. & Am. Improvements.

A sample of Asbestos from H. Hollinsworth was presented and delivered to the Curators.

An account of West Florida, by Daniel Clark, was read, "Mention being made therein of Doctor Larimore * who invented the universal magnetic needle, which gives the dip and variation at the same time, & who intends to observe the ensuing transit of Venus."

Ordered that the Secretaries answer M^{r.} Clark and request the favour of his Observations.

The Soy and Sago of S. Bowen were referred to the Com. Nat. Hist. & Chem., and the Vetches to the Com. Husb. & Am. Improvements.

"Agreed that at the next meeting, Committees be appointed to observe the transit of Venus."—Adjourned to Tuesday next, 6 P. M. at the College; notice of the extraordinary meeting to be published in the newspaper on Monday.

^{*} Mentioned in the Proceedings of Feb'y 21, as Dr. Lorrimore of Pensacola.

1769, Feby. 7, College. (21 present.)

Draft of Address to the Assembly read, amended, altered & approved, as follows:

To the honourable the Representatives of the freemen of the Province of Pennsylvania in General Assembly met.

The humble address of the American Philosophical Society held at Philadelphia for promoting useful knowledge.

GENTLEMEN,

The kind reception which the late honourable house of Assembly, at their session in September, were pleased to give to the humble address presented to them by one of the Societies, whereof this Society is now composed, and the generous vote passed in persuance of that address, to purchase a reflecting Telescope with its proper apparatus for observing the ensuing transit of Venus, are evidences that the house were actuated by a laudable desire to promote useful knowledge and the reputation of their country: and therefore it was judged by the gentlemen, who presented that address, a duty incumbent on them to acknowledge, in the most public manner, the grateful light, in which this mark of favour and protection from the representatives of their country ought to be considered by every lover of science and useful arts in the province.

But as an union of two societies, which at that time pursued the same ends on different foundations, hath since happily taken place, and we are now, in our united state to share the common benefit of the assembly's generosity, we therefore beg leave, in the most humble manner, to express our grateful sense of the public countenance given by the late honourable Assembly to the designs, for which we are associated, and to request the continuance of the like favour and protection from your honourable house, in the further prosecution of those designs, so far as they may appear calculated to promote the public good.

It would be needless, on this occasion, to point out to you, how many and various benefits may accrue to any country, and especially to young colonies, from a society instituted on so extensive a plan as that of the American Society held at Philadelphia for promoting useful knowledge. The experience of ages shews, that by such institutions, arts and sciences in general are advanced; useful discoveries made and communicated; many ingenious artists, who might otherwise remain in obscurity, drawn forth, patronized and placed in public usefulness; and (what is of great consequence to these young countries, especially in their present situation) every domestic improvement, that may help either to save or acquire wealth, may, by such means, be more effectually carried on. While such are our views, we flatter ourselves, we shall never solicit the countenance of the Assembly of Pennsylvania in vain.

We, therefore now beg leave to renew the request, that you would be pleased to make some further provision for carrying into execution the observation of the ensuing transit, which is an object of so much importance, that most of the civilized states in Europe appear to be desirous of lending assistance in it. As the use of the Telescope, under such directions as you may think proper, will be necessary as soon as it arrives, we farther pray, that leave may be given for erecting an Observatory in the State house ground; and that you would grant such public assistance, as you may think convenient, for erecting the same and also for making an observation of the transit, at least as far westward as Fort Pit [sic], which will be of great use compared with Observations, in this and other places more to the eastward.

Signed by order and in behalf of the Society.

Ordered, that the same be copied fair and signed by the vice president for the night, and presented to the Assembly.

Transit of Venus Committee: Ewing, Pryor, Shippen junr., Williamson, W. Smith, Rittenhouse, Lukens, Dickinson, Alexander, Owen Biddle, Pearson, Sellers, Thompson & Wm. Poole.

Secretaries ordered to prepare a rough draft of "a note or certificate to be sent to distant members to inform them of their election."

1769, Feby. 17, College. (23 present.)

Committees on Natural History & Chemistry, and on Husbandry & American Improvements were desired to meet at the College on Tuesday and Wednesday evenings.

Form of note or certificate of Election read and agreed to, viz.

"PHILADELPHIA.

"Sir. We are ordered to inform you that the American Philosophical Society held at Philadelphia for promoting useful knowledge, have chosen you a member & hope you will unite your endeavours with them in carrying their plan into execution.—Signed by order of the Society" &c.

Ordered 250 "on good paper with proper blanks."

V. P. Bond reported the presentation of the address to the Assembly by two of the Secretaries.

Observatory:—Agreed that Rhoads, Pennington, Rob. Smith & the Transit Committee, be a Committee to em-

ploy a workman & erect an Observatory for "a sum not exceeding £60," "if they cannot find among the houses belonging to the Assembly, one fit for the purpose."

A method of preserving Peas from the Bugs in a letter from Peter Miller.

"A computation of the cost of cutting a canal, &c., from the head of Chester River in Maryland . . . & the head of Duck creek . . into Delaware bay" was read and referred to the C. on A. Improvements.

"On the propagation of the Chestnut tree & the advantages resulting from it" was read and referred.

"An account of an Aurora borealis observed at Lancaster, Jany. 5, 1769" was read and referred to the C. on N. Philosophy.

The C. on the Transit of Venus "are desired to meet at the College on Monday evening in order to class themselves."

"Obs. on the Fur and Peltry trade in the district of Michilimackinac" by Maj. Rogers was postponed.

- 1769. March 3. College. (T. Bond; Pemberton, Kinnersley, Bradford, Tooke, Aspen, Morgan, Shippen, Shippen, Jr., Williamson, Powell, Drinker, Nicola, Fisher, C. Biddle, Wynkoop, Bringhurst, Jones, Clifford, Bartram, Gibson, James, Clarkson, Hollingsworth, Pearson & Roberts; Syng, Thomson, Smith, Secretaries.)
 - "It having been debated . . .
- "Resolved . . . Reports of Committees, when brought in, shall be read Paragraph by Paragraph; and so much of such Reports as shall be agreed to by the members . . . present . . or the majority . . . together with such additions or amendments as they may judge proper, shall be entered on the Minutes as the act of the Society. And the Original Reports, signed preserved . . . "
- The S. Bowen's Communications Committee then reported, that thanks be returned, "especially for his ingenious account of the Chinese Vetches...."

The Other Committee were recommended to "make some

experiments on" the respective qualities of the samples of Soy & Sago, & report.

Ordered that some . . . Vetches be distributed to . . . Pemberton, J. & J. Bartram, J. Morgan, J. Rhea, Abel

James, T. Clifford, J. Gibson & G. Roberts."

The Committee reporting on Hollingsworth's letter about Wild Garlic, the letter was ordered to be prepared for publication "for the Benefit of Farmers &c together with the substance of the letter from M^{r.} Peter Miller, giving some useful Hints for raising Pease free from the Bug;" and Members & Farmers were recommended to "make Trial of the Method" & communicate results.

The Committee on Chestnut Timber "not having had leisure fully to digest the matter" were to report again.

Sundry new communications were postponed.

1769. March 17. College. (Bond; Alison, Nicola, Jon. Smith, B. Davis, M. & G. Clarkson, Alexander, Bringhurst, Wells, Kinnersley, Clifford, Pearson, Pemberton, Fisher, Murgatroyd, Jones, Bradford, Kuhn, Williamson, Shippen Sen. & Jun.; Smith, Thomson, Ewing & Mifflin, Secretaries.)

Resolved, that the late Address to the Assembly be immediately published, with a copy of the Assembly's Resolution.

"Method of making Tea from the Red Root," in a letter from D^{r.} Brook of Mallapany* was referred to the Committee on Natural History to report "& prepare a letter to Him with such Directions as they can give for Curing the Plant." To meet Thursday, 6 P. M.

1769. April 7. College. (Bond & 16 others.)

Committee on Brook's letter "not having been able to procure a Meeting," to be summoned by M^{r.} Nicola to meet next Friday.

- "Method of curing the Bite of the Rattle-snake, for which
- * Mattapany? The "t"s are not crossed and much resemble the "1"s.

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Sampson, a negro, had got his Freedom and a Premium by Act of Assembly of Carolina" in a letter from D^{r.} Jas. Weems Moore of Charlestown [sic] S. C. was referred to the Med. Com. Thursday next.

Com. for Am. Imp. and for Trade & Commerce are appointed to meet "Monday Se'ennight, to digest the Papers now lying before the Society, for opening a Canal . . .; to prepare a Scheme of application to the Merchants &c. of this city, for defraying the Expense of taking the proper Levels and examining what will be the best Place of cutting a Canal . . . & the probable Expense of Carrying the Design into Execution." Jones to summon the Committees.

1769, April 21. College. (Bond; & 30 others.)

Dr. Shippen to write to Dr. Moore.

Com. on the Canal reported a Draft of an Application to the Merchants &c. which was approved. Pennington [sic], Drinker, Rhea, Clifford & Jon. Smith, a Committee "to present the same to the Merchants," viz.

To the Merchants and others of Philadelphia:

"The American Philosophical Society, held at Philadelphia for promo-"ting Useful Knowledge, have had sundry Proposals laid before them "for opening a Canal, between the Navigable Waters of Delaware & "Chesopeak Bays; representing that the same might be done in several "places, but particularly between the Heads of Bohemia and a Branch of "Apoquiniminck, called Drawyer's Creek, where, upon an accurate "Mensuration, the Distance between the Tide-Waters of the One Bay & "the other is found to be but 12.00 Perches, or about 33 Miles. And it "having been further represented that the Execution of such an Under-"taking would be of the greatest Benefit to the general Trade, both of "Pennsylvania and Maryland, as well by Opening an Inland Water Com-"munication between them for a safe and easy Exchange of Commodities, "as by drawing the Produce of the rich and growing Settlements on Sus-"quehannah and its Branches down that River to the Ports in Maryland, "to be from thence either immediately exported or sent to Philadelphia, "as Occasion might require.

"And lastly, it having been further recommended to the Society, as a "matter worthy of their Attention to appoint proper Persons to take the "necessary Levels, to compare the respective Times of high Water in both

"Bays at the Places proposed, and to examine which would be the best place for cutting such Canal, with the probable expense thereof.

"The Society, therefore, willing to encourage such a laudable Under"taking, as far as in their power, have agreed to appoint proper Persons
"for the Services aforesaid; but as, in their present Infant State, their
"Funds are inadequate to such an Undertaking, they have found it neces"sary to make this application to the Merchants & others of Philada whose
"known public Spirit leaves no Room to doubt of their Readiness to assist
"in the Design"

To the above Application was annexed the following

FORM OF SUBSCRIPTION, VIZ:

"We the Subscribers do hereby promise to pay the Sum respectively "affixed to our Name, into the Hands of M. Philip Syng, or the Treasurer "of the American Philos. Society, held at Philada &c for the Time being; "in Order to defray the Expense of taking the proper Levels, & examining "which will be the best place for opening a Canal, between the Waters of "Delaware & Chesopeak Bays."

Com. of Nat. Hist. to be summoned by Dr. Kuhn to meet at the College, Friday, "to prepare Directions for Curing the Red-root Tea-plant."

A letter from $D^{r_{\cdot}}$ Lorrimer of Florida to $D^{r_{\cdot}}$ Williamson was read & referred to C. of Nat. Philosophy for answer.

Election of New Members:—Rev^d D^{r.} Jno. Witherspoon, Prest. Coll. N. J.; Rev^d D^{r.} Myles Cooper, Prest. Coll. N. Y.; Col. Landon Carter, Va.; D^{r.} Otto of Bethlehem; M^{r.} Dan. Clark; D^{r.} Lorimer [sic], Fl^{a.}; D^{r.} Brooke, Md.; D^{r.} Prime, N. Y.; D^{r.} Jno. Jones, N. Y.; M^{r.} S. Bowen, S. C.; and Sam. Shoemaker, Esq. of Philadelphia.

1769. May 3. (Bond; Thos. Pryor, M. Aspden, & 22 others.)

W. P. Syng, "agreeable [sic] to the Rules of the Society, delivered in his & E. Physick's bond of £500, conditioned for the faithful discharge of his duty as Treasurer." His account showed a ballance [sic] of £ 98 ·· 14 ·· 1. Bond delivered for keeping to T. Bond, v. p. and account to be audited by Mifflin & Thomson.

Dr. W. Shippen jun. to write to Dr. Moore.

The Merchants Committee reported that "they had con-

vened a number of the merchants" .. "the design was highly approved, and a Subscription was immediately begun, which already amounted to £140."

Messrs. Lukens, Clarkson, Sellers, & Rumsay "were appointed to go & examine which will be the most proper place for cutting the canal, to take the proper levels, to compare the respective times of high water on both bays & see whether a direct communication can be opened by a canal, or whether locks and dams are necessary, & if so, what head of waters to supply those dams, to make an estimate of the probable expense . . . & report . . . "

The Merchants Com. to thank the merchants, & ask them to add their own members to the Survey committee. "As it may be in the power of many gentlemen to lend assistance in the prosecution of the design, their countenance & concurrence will be gratefully Acknowledged by the Society."

"Types made by Abel Buel of Connecticut" were referred to T. Bradford to examine.

Com. N. Hist. desired to prepare directions for curing the red root Tea plant and report at the next meeting.

Transit of Venus Com. to meet at the College Monday evening "to prepare themselves for the observation and to send to the press some account of the instruments lately arrived."

1769. May 19. (Bond and 12 others.)

Auditing committee reported the accounts correct; also that

"The honorable House of representatives had generously granted the privilege of erecting the Observatory in the State house yard," and voted £100 for erection and observation, "to be paid to the Society's Treasurer;" also that

The Committee of Feby. 17th, "had agreed with Jas. Pearson to erect the Observatory to a plan delivered him, for . . a sum not exceeding £60." An order had been drawn on the Treasurer for £10 in advance for materials.

Balance now in Treasurer's hands $\pounds 98 \cdot 14 \cdot 1$, as per account following:—

To cash paid sundries before the late Union April 14th, 1769, To d° p ^d Jas. Pearson P order. To ballance due to y° Socy	£7:8:5	from 43 members be fore late Un	£16:2:6
	98:14:1		100:0:0
	116:2:6		116:2:6

"C. Thomson & T. Mifflin are desired to request the favour of M^{r.} Bradford to collect the money subscribed for defraying the expense of examining the best place... between Delaware & Chesapeake bays, and ... to pay ... to the Society's Treasurer."

The Com. reported that the Merchants had nominated Jos. Ellicot, Rich. Silliforth, W. Killen & J. Stapler to join in the examination.

"Com. of N. Hist. are continued on the service to which they were appointed last meeting."

Owen Biddle reported that the Transit Com. had met "& classed themselves for the service; that Mr. Luken's public and private engagements not permitting him to attend the making an observation on the western line and there being no other found, who was willing to undertake it, the observation . . . there was dropped; that it was agreed to observe at Philadelphia, at Norrington, and at the Capes;" that Shippen, Ewing, Prior & Williamson would observe at Phila; Dr. Smith, Lukens, Sellers, & Rittenhouse at Norrington; & Owen Biddle at the Capes, using the telescope generously granted him by "the library company of Philadelphia," taking an assistant, & setting out "in a day or two."

"The Society agree to defray the expences of O. Biddle & his assistant . . an order is drawn on the Treasurer . . . for ± 20 ."

Bond and Rhoads to ask the Speaker of the Assembly to return thanks for the Society.

Treasurer desired to pay out of the money rec^d from the merchants such sum as the Canal Committee shall draw for expenses while on that service.

Pearson, having finished the Observatory, wanted money; the vice president was desired to draw for him ± 40 .

"Adjourned to meet here to-morrow evening at 5 o'clock." Secretaries to notify members.

1769. May 20. On adjournment. (Bond & 27 others.)

The classification of observers was approved.

"The Society next enquired how the several Observers were to be furnished with proper instruments, and were informed by M^{r.} Ewing that M^{r.} Jos. Shippen intended to use a small reflecting Telescope belonging to the honble Props; ... M^{r.} Pryor had a good reflecting Telescope of his own ... That it was proposed to apply to Miss Norris for the use of a large refracting Telescope in her possession for D^{r.} Williamson ... he himself [M^{r.} Ewing] ... with the Telescope belonging to the Assembly of the Province; that M^{r.} Prior had furnished a good Time piece: & that they had a transit or equal altitude Instrument and a sector belonging to the honble Props, which were fitted up at the Observatory for ascertaining the true Meridian, adjusting the Clock, &c."

"That at Norrington Mr. Rittenhouse had a good time piece, an equal altitude Instrument, and a refracting Telescope; that a new reflecting Telescope with a micrometer was just arrived, which the honble Proprietaries had generously purchased and sent over on the occasion, & which they desired to present to the College. Besides these they had one or two refracting telescopes which they intended to fit up for the purpose.

"That Mr. Biddle had a time piece and equal altitude -

Instrument of his own . . . & the Library Company . . . had granted him the use of their large reflecting Telescope."

Ewing, Williamson and C. Thomson to wait on Miss Nor-

ris to request the use of her Telescope.

A short paragraph from Franklin's letter read, thanking for his election.

Letter from the Speaker of the Assembly to Dr. Bond (& Mr. Rhoads.) "Sir, agreeable to the request of the philosophical society the house of Assembly have ordered that they have the use of the Telescope &c... The Assembly have not as yet made any further order... but propose to do it before they adjourn... Jos Galloway."

Survey committee, on motion, was requested to examine "the ground between French town on Elk and New Ham-

burgh on Delaware."

"A model of a new invented wind mill" received from M^{r.} Gilpin, was referred to the C. of Mechanics and Architecture, to meet next Friday evening to examine it & report.

"A cag of Berry seed" from J. Maris, with a letter stating that it "produces an Oyl equal in quality to Florence oyl, some say preferable; that its produce is amazingly great." Planted 10 seed to a hole. 3 feet apart; plants to be thinned out, leaving 3 or 4 in a hole; grows in pods & gathered full grown & dry. Isaac Bartram to experiment with some, & the rest to be distributed among the members to plant. Thanks voted to Mr. Maris.

"Agreed, that application be made to the Assembly for a lot of ground in the state house square, whereon to build a house to accommodate the Society."—Bond, James, Clifford,

Thomson, committee to draft the petition.

1769. June 16. (Bond & 31 others)

M^{r.} Gale's letter of inquiry about Abel Buel's types, read.

Canal committee reported "We have viewed the ground, taken the level and surveyed the distance between the tide waters in Bohemia and Anoquinimy Rivers, & have likewise essayed a calculation of the expense that will attend the cutting of a canal, which we are of opinion may be executed with Locks, for . . £40,000.

"The depth of earth from the highest ground to the level of Navigation being very great, we have declined making any estimate of what the cost might be, to make a clear passage from River to River, as the expense would greatly exceed the mode on which our calculations are formed.

"For a particular account of our work and the calculations we have made, we beg leave to refer the Society to the plans of the Survey and elevation herewith laid before them." Signed June 16. 1769. Lukens, Sellers, Clarkson.

Report &c referred to C. for Am. Improvements.

Thos. Gilpin, one of the Merchants' appointees exhibited "a plan of a canal & elevation.. between Chester river & Duck creek, with an estimate"—for flat bottomed boats, carrying 1000 bushels, £8050; for shallops &c., £28,298.—Referred.

Report that Miss Norris' telescope had been placed in Dr. Williamson's hands. Thanks ordered, and the Telescope to be sent home safe.

Building committee continued. [No report.]

Transit Committee at Philadelphia reported "that they had met frequently . . . to adjust their instruments & to remove every local obstruction . . . On the day of the transit they assembled at the Observatory in the morning and took the passage of the sun's eastern & western limbs over the cross hairs of the transit Instrument, that they might be compared with the like observations made at the same altitudes of the sun in the afternoon, to discover the error of the clock & the time of apparent noon. This observation was frequently made before the day of the transit and repeated for several days after. Every observer being fixed at his telescope ——"

[Here follows the description of the observations occupying 4 pages. The report of the Committee elaborated by D^r. Ewing may be seen in Trans. A. P. S. 1st Series, Vol. 1, pp. 42 to 89.]

"Mr. Owen Biddle.. Cape Henlopen...laid before the society a diary containing a particular account of his & his assistant Mr. Joel Bailey's Observations as follows" [in 5½ pages, which were elaborated & published in Trans. A. P. S., 1st series, Vol. 1, pp. 89 to 97.]

"The Vice presidents and secretaries are appointed to pre-

pare a sketch of the Institution and design of the Society to digest the several papers, which have been laid before it and to prepare the whole for the inspection of the Society in order for their publication." [See Preface to Trans. Vol. 1.]

"Chas. Thomson read a letter . . from John Jones of Indian river, wherein he mentions his having discovered several species of Grapes in his neighborhood."-Referred to C. on American Improvements.

June 30. (Cadwalader, V. P.; & 14 others.) 1769.

Report of C. on Am. Imp. That thanks be given to the surveyors of the Bohemia & Apoginimy line, "But as some other places have been mentioned as suitable for opening a communication . . . and as it is of great importance that the best place be fixed on . . . the same gentlemen are desired . . . to examine the ground between Elk & Hamburg and between Elk & Christiana creek, and . . . then to take the level of that place which seems the most favourable & make an estimate . . ."

That Messrs Lukens, Sellers, Clarkson, Silliforth & Stapler be allowed "15 sh. per day for the time they were engaged, which was seven days," & expenses, total £ $44 \cdot 11 \cdot 11$.

That the drafts & remarks of the committee be carefully preserved among the papers of the Society.

"That the thanks of the Society be given to Thomas Gilpin for his service & time generously devoted to the public as well in the mensuration & levels taken by him from Chester Run to Duck creek as in the drafts of the land between the heads of those creeks the plan of a canal & estimate of the costs with remarks thereon, all which are to be carefully preserved among the society's papers."

"That as J. Sellers has been at the expense of getting a curious levelling Instrument of a new construction made for this particular service the sum of 50 sh. be allowed him in part pay for the same provided he will grant the society the use of the instrument as oft as they shall have occasion for it."

Com. to collect merchants' subscription ordered to make the merchants a report "& sollicit [sic] payment of the subscriptions."

Com. on Buel's types reported the metal good, "& that they doubt not he will correct the defects that appear different sizes, standing out of line, & the impression of some being too faint." Thanks ordered "for his spirited and useful undertaking" & "that a specimen of Caslon & Son be sent him for his imitation."

A treatise on the culture of the vine by E. Antill, was referred to the Committee on American Improvements.

A letter on the medicinal uses of Apocymum from Dr. Mercer, was read.

A letter on the Constitution of the Air, its effects on the human body &c from D^r. Elmer of Bridgetown was read.—Both referred to Medical Committee.

Certificate of Morrice Pound relative to the quantity of Vines he had planted & has now growing, referred to C. on American Improvements.

1769. July 20. College. (Bond; Peter Miller of Ephrata, & 17 others.)

Added to Com. on Sketch of the Institution & Design of the Society—Drs. Allison [sic], Williamson, Redman, Morgan, Shippen jun., Kuhn, & Messrs Bartram, O. Biddle, Pemberton, Drinker, Jon. Smith, Rhoads, Tilghman, Rhea—"to meet here next Monday evening."

Order on the Treasurer for £20, for Rittenhouse's expenses; £3.17.6, for Lukens' expenses; £11.9 balance of £31.9 due O. Biddle for expenses.

A draft of the River Mississippi from the mouth up to fort Chartres, from actual surveys. [surveyor unknown.]

A draft of the River Mobille [sic] from the bay of Mobille to Fort Tombeebe [Tombeebe?] 96 leagues, from actual surveys by Philip Pilman in 1767.—Both drafts delivered to D^{r.} Williamson by M^{r.} D. Clark, with a request to present them to the society.

The Med. Com. report "on several matters," unsigned, was returned to the Com. for signature.

Transit obs. at Norriton. "Dr. Smith laid before the Society the following account of the observations of the transit of Venus by the Committee at Norriton."

[It occupies 23 pages, & is to be found in Trans. A. P. S.

Vol. 1. pp. 8 to 42.7

"Rev^d M^r Ewing delivered in the following paper containing observations and calculations made from the late transit viz." [here follow 4 blank pages intended to engross what is published on pp. 5 to 8 of Trans. Vol. I.]

1769. Aug. 18. College. (Syng, chairman & 17 others.)

Com. to prepare transactions for the press reported "that they had met several times & agreed upon a number of papers . . . viz." [1½ blank pages, intended for the list.]

Bond, Smith, Ewing, Thomson, & Mifflin, made a Com-

mittee "to superintend & correct the press."

On the Culture of the Currant shrub & a receipt for making currant wine from M^r J. Okely of Bethlehem, read.

An essay on the culture of hemp, with a letter from the honble Mr. Antle of Shrewsbury, read.

1769. Sep. 15. (Bond, W. Shippen, D. Evans, B. Wynkoop, Dr. Kuhn, E. Kennersly [sic], J. Davidson, R. S. Jones, Dr. Clarkson, J. Lukens, E. Duffield, Dr. Redman, L. Nicola,

M. Aspden, Dr. Williamson, J. Ewing, W. Smith.)

"Dr. Williamson delivered to the Society a paper, in which he endeavored to explain the Theory of the motion of the Comets, the Probability of their being inhabited, and to account in a new Way for the appearance of their luminous train on their near approach to the sun."—Referred to Com. of Ast. to meet Monday, 6 P. M. at the College, and publish it if they think proper without reporting.

Smith & Ewing "to agree with Mr. Duffield to make a timepiece for the use of our Observatory in a plain & cheap

manner."

1769. Oct. 6. (Bond, Dr. Cowpar of N. York, Evans, Coombs, Pemberton, Kinnersly [sic], Duffield, Clarkson, Smith (W.), Ewing, Thompson.)

Com. reported Duffield's clock to be ready for the ensuing transit of Mercury.—Venus Transit Com. appointed to observe Mercury; T. Coombe added.—"If any other Members.. have Telescopes, it is hoped they will employ them.. & communicate their Observations..." Persons so intending, to meet at the Observatory, Wednesday night, to class themselves & prepare.

Rev^d J. Ewing & Joel Baily [sic] added; to proceed with

all convenient speed.

"Advertisement for specimens of the different clays to be sent to the Society" ordered.

"On the Bristol Chalybeate waters;" letter from Dr. J. Denormandie, read & referred to Med. Com. "to meet this day week & report."

1769. Oct 20. (Bond, Nicola, Rhoads, Gibson, Jones, Williamson, Hollingworth, Clarkson, Kinnersly [sic], Rittenhouse, W. Smith, Ewing, Thomson, Bond jur.)

No quorum for election of new members; election "de-

ferred 'till the next quarter day."

Mercury transit Com. to meet at the Obs. 21st 4 P.M.

Canal Com. meet at Obs. 21^{st} 4 P. M. to "fix the time for setting out on that service."

Med. Com. to meet at Mr. Byrn's, Friday, 6 P. M.

"Agreed, That after every meeting an account be published in the newspapers, of all the papers laid before the Society."

"On cutting & gathering the Bene seed;" letter from John Morel of Geo. read.

1769. Nov. 3. (Alison chairman; Ewing, Thomson, Rhoades, Kinnersley [sic], Clarkson, Jones jun., Jon. Smith, Davidson, Pierson, Williamson, Duffield.)

Mercury Com. reported progress.

Canal Com. reported themselves ready to set out on the 13th.—Copy of minute of appointment for them ordered.—Order on the Treasurer for £40 for their expenses.—"They

are also to examine the ground between the Head of Duck Creek & Chester River, & to take the level of it if they should judge necessary."

Med. Com. reported on Denormandie's paper on the Bristol Waters; ordered for publication in the Transactions.

Advertisement for clays to be "deferred for some time." Pierson's account for building the Observatory & sundry other services, "referred to the examination of the gentlemen who made the agreement with him," Tuesday next.

1769. Nov. 17. (Galloway; Bond, Williamson, Dr Harris, Rhoades, Alexander, Evans, Bradford, Kennersley [sic], Duffield.)

Mercury Com. reported "That they had opportunity of making accurate observations, the Result of which should be laid before the society at next meeting."

Levi Hollingsworth & Gilpin "particularly requested to attend the Com. appointed to make the Survey & Levels between the waters of the Chesopeak [sic] & Delaware."

1769. Dec. 1. (Bond; Redman, Williamson, Morgan, Rhoades, Fisher, Pierson, Jones, White, Kennersley, Syng, Coombe, Dav. Evans, Dr. Shippen; Ewing, Thomson, Dr. Smith.)

Treasurer Syng reported "£40 from the Merchants of this City," per M^{r.} Bradford "being a further Part of their generous Contribution towards examining the most practicable places for opening a Canal And as some of the Committee named for this service have not been able to attend the following Gent are now appointed . . . & earnestly requested to proceed on the Business without Loss of Time, viz.—Messrs. Rhodes, Ewing, Hollingsworth, Gilpin, Stapeler, J. Bailey [sic] & Sittiforth, or any four of them." The President signed an order for £40, to pay to M^{r.} Rhoads, for expenses.

"An Improvment [sic] on the Construction of Hadley's

Quadrant, with a proper mathematical Figure & Demonstration of the Truth of the proposed Construction" communicated by M^{r.} Ewing; "which he is desired to publish among the Transactions of the Society."

1769. Dec. 15. (Bond; Pemberton, Kinnersley [sic], Coombe, Drinker, Hollingsworth, Evans, Fooks, Nicola, Rhodes, Aspden, Morgan, Williamson; Smith, Ewing, Thomson.)

Canal Committee.—Two being present, reported "That the uncertain Season of the Year, and the Swamps be full [sic] of water, had deterr'd them from proceeding on that Service; but as soon as the Winter should set in, & the Swamps be frozen over, they would immediately proceed." Jos. Gilpin added to the Committee; to be informed of this by Mr. Hollingsworth.

Rev^d Mr. Maskelyne, Astronomer Royal had written to T. Penn, respecting some account he had received of the Observations on Venus; Penn sent a copy of the letter to Sec. Dr. Smith: - "Greenwich, Aug. 2. 1769. - Sir. I thank you for the account of the Pennsylvania Observations which seem excellent and compleat [sic]; and do Honor to the Gentlemen who made them [The letter occupies a page, and expresses a hope of finding the Sun's Parallax, by comparing the Amer. & Europ. Observations "nearer than we could depend upon from the Transit of 1761." "I do not yet know whether the Obs. made by Messrs. Mason & Dixon in Pennsylvania will suffice to settle the Longitude of Philada to the exactness here requisite. I wish, therefore, to receive the Observations of the Eclipses of Jupiter's Satellites made there in the Spring of this year, of which Dr. Smith makes mention I wish, also, . . . the Difference of Latitude & Longitude between the Philadelphia Observatory and the two others at Norriton & the Capes of Delaware, and also how much the State house Square differs from the Southern point of the City of Philadelphia to which Messrs. Mason & Dixon have referred their Observations." "I beg

your acceptance of the inclosed account of my Observations of the Transit and Eclipse of the Sun, June 3^d... Several Phænomena noted at Norriton, agreed with those observed here; but they have further observed a curious Circumstance at the first entrance of Venus, with the low altitude of the Sun, did not permit me to observ here; as, on the other Hand, some Phænomena were noted here, with they have not taken notice of." [For Maskelyne's Obs. see Trans. A. P. S. Vol. I, pp 105 to 114.]

[Then follows half a page of "Immersions & Emersions of Jupiter's Satellites, observed at Greenwich."]

Smith, Ewing & Williamson, a Committee to draw up an account of the Transits of Venus & Mercury to be communicated to the Astronomers in Europe, to be transmitted to D^{r.} Franklin, as President.

"A note was given in by M^{r.} Nicola to be added to his Piece, on preserving Subjects in Spirits &c."

Advertisement in the Newspapers of the Annual Election, at the College, Jany 5, 2-5 P. M. ordered, "& also notifying the Rule relative to the annual Payments to be made by the members before they can be admitted to a Vote."

PROCEEDINGS ANNO 1770.

1770. Jan. 5.

Election of officers: Ben. Franklin, President.

Jos. Galloway, Dr. T. Bond, Sam. Rhoades, Vice Presidents.

Rev^d D^{r.} W. Smith, C. Thomson, T. Mifflin, S. Roberts, Secretaries.

Dr. Isaac Bartram, Dr. B. Rush, O. Biddle, Curators.

Philip Syng, Treasurer.

A letter from Franklin "relative to the Culture of Silk in this Province" was read and referred to the Com. on Husb. & Am. Improvements. "D". Ewing was respectfully requested to continue his best assistance in digesting and Publishing the Transactions of last year."

"A new Invented Leather Bowl, made by B. Peters was presented."

1770. Jan. 19. (Rhoads & Bond, V. P.—23 members & W. Smith, Sec. \equiv 26.)

Election of new members:—D^{r.} Fothergill, M^{r.} Ed. Nairne, & M^{r.} Jas. Ferguson of London; D^{r.} Hahn, Prof. Chem. Univ. Utrecht; Lord Sterling of N. Jersey; M^{r.} John Morell of Georgia; M^{r.} Guald, Surveyor of W. Florida; M^{r.} Joel Bailey of Chester Co. Pa.; M^{r.} Jos. Ellicot [sic] of Bucks Co. Pa.; & M^{r.} Jos. Gilpin of Cecil Co. Md.

Com. on Silk Culture reported, that they had met twice & "prepared the Heads of a scheme" which was read and approved & the Com. was "empowered to digest & lay the scheme before the . . . Assembly, & to pray their assistance in Carrying it into Execution, as being the natural Patrons of every Undertaking wch requires the public Countenance & Encouragement."

Canal committee recommending Mr-Joseph Horatio Anderson, he being present "agreed in a very obliging manner to attend the Com. whenever they should be prepared to set out; & it was earnestly recommended to the Committee to embrace the present opportunity of the frosty Season to proceed on their work."

1770. Feby 2. (Bond & Rhoads. V. P.; Sam. Purveyance [sic] & 22 other members; Smith & Thomson Secs. = 27.)

Secretaries ordered to notify newly elected members.

Com. on Silk Culture read their "Form of Representation and Petition to the House of Assembly" which they thought had better go from the whole Society rather than from the Committee.

"To the Honorable" &c—"The Representation or Petition of" &c—"Sheweth—That [Here follows four paragraphs of preamble ending] it is therefore proposed—

"1. That a public Filature be established at Philadelphia (and afterwards at . . . other places in the Province) for winding Cocoons; . . . managers appointed . . . Cocoons belonging to all who may chuse to work up their own Silk"

"2. That to encourage all Persons to cultivate Mulberry trees, raise Silk-worms & bring their Cocoons . . . managers to pay . . . during 5 years, the Current Price . . . in Georgia; and at the rate of 25 per cent on the value for all Cocoons . . .; & besides . . . bestow the following yearly *Premiums*, viz, for 1770, £15 to the Person who shall raise . . the greatest quantity . . . not less than 30,000; & £10 . . . next greatest quantity, not less than 20,000. In 1771, £ 15 40,000 and £10 . . . 30,000, In 1772, £15 50,000, and £10 . . . 40,000. In 1773, £15 60,000 £10 . . . 50,000, and in 1774, £15 70,000, and £10 . . . 60,000 . . . Cocoons raised in the Province.

"3. That to enable the managers to pay the aforesaid Premiums, establish the Filature, purchase Cocoons & employ Servants for the work, it seems necessary that a sum not less than £500 p. annum should be appropriated during the aforesaid Term of five Years."

"The Society therefore Pray—That the Honble House of Assembly . . . nominate & appoint proper managers . . . to receive out of the Provincial Treasury the aforesaid yearly sum, & . . . all Silk . . . with the Floss, be exposed to public Sale from time to time" &c. &c.

"If the Society . . meets with encouragement from the House it is proposed to write immediately to Georgia and Carolina for Eggs, to distribute" "All which" &c. Signed Thomas Bond, Samuel Rhoads V. P.

[The next page is occupied by an extract from Franklin's letter to D^{r.} Evans, about Silk Culture.]

Address & letter approved, and ordered to be signed by the Vice Presidents; Bond, Pemberton, Drinker, Pennington [sic], Redman, Evans, Alison, Smith & Thomson appointed to present them to the Assembly.

Com. for Am. Imp. reported "that they have met lately at the House where the Union Library was kept," & think "it would be a fit Place for the meetings of the Society, & for the Keeping the Cabinet."—Pemberton, Clifford, Is. Bartram & O. Biddle "were appointed to call on the Directors of the Philadelphia Library Company to know the lowest Terms on which they will rent the House."

Duffield's account £15, $\cdot\cdot$ 17 $\cdot\cdot$ 6 for the clock was ordered to be paid, the Com. reporting "that they think the work good & the charge reasonable."

Canal Committee "being this evening returned—Report that they had view'd and leveled . . . thro Red-lion Creek in the Bite of Newcastle to the Tide waters of Elk River; and also from Christiana Creek to the said Elk River, and find it practicable to make a good Canal the first way, and a Canal tor Barge-navigation the second, and . . . also . . . from . . . Peach Bottom Ferry along the line dividing Penna & Maryland, to Christiana Creek, & find that a good Road may be made; but had not had Leisure to draw up a Regular Report."

1770. Feby 16. College. (Bond, Rhoads; Alison, Davidson, Jones, Clarkson, Rhea, Bryan, Jon. Smith, Bringhurst, Is. Bartram, Moses Bartram, Hollingsworth, Aspden, Sellers, Lukens, Worral, Drinker, Purviance, Pemberton, White, Dr. Shippen, Evans; Thomson, W. Smith.)

Com. to present the Address, reported, that it "was received by the House in a very Kind manner" and read by the Clerk. The Com. laid before the House specimens of this Country Silk in cocoon, skain, knit & woven. The House seemed well satisfied and would probably "take some effectual method to encourage & establish the scheme."

The Directors of the Library Co. were reported as fixing £25 as the lowest rent for the Library Room, "which being thought too high, & the Room otherwise judged inconvenient on several accounts, it was unanimously agreed not to rent the House."

Com. on Amer. Imp. were "desired to continue every method in their Power for informing the members of Assembly, of the nature & Practicability of the Scheme... for promoting the Culture of Silk, and to make the best

Estimate they can of the Expence of establishing the Filature & employing the necessary Hands."

Canal Com. "returned their Report as follows, viz. See the Original Reports in the Society's Papers. [Two pages evidently left blank for its engrossment.]—Thanks were returned to the Com. for their zeal in this service at so inclement a Season of the year & their skill & assiduity . . ." They, together with Pemberton, Drinker, Fisher & Bryan, "are desired to lay all the Canal Papers before the merchants . . & to assure them that the Society will lose no Time in procuring the proper Estimates."

1770. March 2. (Rhoads; & 13 others.)

Com. of Amer. Imp. reported "That they had drawn up a Paper setting forth the public advantages" of the Silk Culture, & probable expense, & been permitted to read it in the House to the greatest part of the members, after the speaker had quitted the chair; the plan had been fully discussed; they had reason to think the House would make some suitable provision &c. This paper was ordered to be preserved.

"The Com. appointed to look for a proper Place for their future meetings, report that the Rev^d M^{r.} Peters was willing to rent the *Church School-house* at £12 per annum, & that they think it a proper Place. Referred to next meeting."

A letter from M^{rs.} Sabina Rumsey to C. Thomson, On the Culture of Silk, was read and ordered to be published. "Continuance of her correspondence" requested.

Com. on Pearson's account reported "that they had settled the Ballance [sic] due him at £24.17, for which an order was given him on the Treasurer."

"A map of part of Pennsylvania & Maryland intended to shew, at one View, the several places proposed for opening a communication between the waters of the Delaware & Chesopeak Bays" laid before the Society by W. T. Fisher; to be kept among the Society's papers for future use. "In

this Map is also delineated the different Roads proposed to be opened for Land Carriage from Susquehannah" [sic].

Canal survey accounts of M^r . S. Rhoads, £56 · 6 · 10½.

1770. March 16. (Rhoads, V. P. in the chair; Pemberton, Jones, Coombe, Fisher, Clifford, I. Bartram, Pennington [sic], Rhea, Jon. Smith, Bradford, Davidson, Alison, Rush, Williamson, Duffiel [sic], Morgan, Dr. Smith, Sec.)

School-house rented for the meetings of the Society. Pemberton, Clifford, Coombe, I. Bartram, a Committee "to provide Candles, Firewood, Benches, Tables and other necessary Furniture, at as moderate a rate as they can."

M^{r.} Fisher reported that all the Merchants had not yet seen the Canal-papers. Ordered, that all papers & accounts be collected & laid before the Com. of Am. Imp. to be examined before the next meeting.

"A scheme for encreasing the Cabinet of Natural Curiosities" from the Curators, was read and returned for some alterations against next meeting.

"A remarkable case of a *Tetanus* cured by amazing quantities of Opium, written by D^{r.} Gloster,* was communicated by D^{r.} Morgan, & referred to the Medical Committee . . ."

1770. April 6. "At the School-house in 2nd street." (Bond, Rhoads, V. P.; Clifford, White, Alexander, O. Biddle, Allison [sic], Jones, Clarkson, Coombe, Ewing, Rush, Morgan, Williamson; Smith & Thomson, Secs.)

Order drawn on the Treas. for £16 $\cdot \cdot 6 \cdot \cdot 10\frac{1}{2}$ in favour of Rhoads.

Com. to provide candles &c. continued.

Mr. Fisher, sent a message to the Society, asking the appointment of an evening meeting of the Com. of Am. Imp. that he might lay before them the Canal-papers, with observations.—Next Friday evening fixed; to be notified in the newspapers.

Medical Committee report that the case of Tetanus cured in Antigua, "is the most extraordinary instance of the kind ex-

^{*} Spelled Gloucester at the meeting when elected, January 18, 1771.

tant in the annals of medical literature . . . deserves a place in the Transactions . . . and may prove a valuable publication as it sets forth the safety & advantage of a freer use of Opium than has been common in violent spasmodic complaints."

Susquehanna Survey.—"Cha. Thompson informed the Society that S. Wallace had offered to make an accurate survey of the River Susquehanah [sic] from Peach bottom upwards, provided the Society will defray his expenses while

about the work.

"D". Williamson, who has navigated the River Susquehanah for about 120 miles above Harris' [sic] informed the Society that from the observations he had made, the navigation of that River is capable of great improvements.

"As the Navigation of that River is of great importance to this province the proposal of M^r. Wallace is referred to the consideration of the Com. of Am. Imp. & D^r. Williamson is desired to communicate his observations to the said Com. to report thereon."

David Evans resigned his membership.

Curators report not ready.

1770. April 20. (Bond, Rhoads, O. Biddle, Jon. Smith, Gilpin, I. Bartram, Jones, Rush, Dr. Shippen.)

Committee " to get the Hall in proper order," continued.

No report of Com. on Canal-papers.

Curators reported for consideration, proposals "for encreasing the Cabinet."

- 1. All Merchants, Army Officers, Ship Captains & others be requested through "the Newspapers in each Colony on the Continent" to collect, & transmit new & curious plants, animals & fossils to the Curators.
- 2. Names of donors inserted in the Books and public acknowledgment made of worthy donations.
- 3. Power given the Curators to write to foreign members and others to solicit assistance in completing the museum; letters to be first submitted.

- 4. "That orders be given to the members, to deliver all the effects of the Society which belong to the Cabinet to the Curators, as many things have been intrusted to the care of the members which have never yet been delivered up to the Society."
- "Should the Society...a plan will be established which will in a few years procure a collection worthy of the care of the Society."

The Committee's Advertisement was read and referred to the Com. N. H., the Presidents & Secretaries, to meet at the Hall, this night week, to prepare a report.

Seal.—"Whether one should be provided... was carried in the affirmative by a large majority."—Paschal, Thomson, Rush & O. Biddle, a Com. to prepare a device.

1770. May 4. (Prest. Sam. Rhodes [sic]; Okely, Drinker, Jones, M. Bartram, Fisher, Clarkson, Jon. Smith, Wyncoop [sic], Duffield, Williamson, Bradford, I. Bartram, Ewing, Bailey, Clifford, Bringhurst, W. Smith, O. Biddle, Thomson.]

Canal Com.—"Whole expenses" £128 $\cdot \cdot 11 \cdot \cdot 5$; all paid except £3 $\cdot \cdot 17 \cdot \cdot 8$ due Gilpin, £6 $\cdot \cdot 15$ due Bailey, & £5 due Stapler; orders signed by the V. P. for said amounts.

Com. on Am. Imp. to meet Wnsdy. evg. to consider "the best way of disposing of the Canal papers for future use, & how far & what part of them it may be proper to take notice of & preserve in the Society's publication." [sic.]

- "M^r Bradford to employ a person to summon the Committee & to know on what terms he will undertake to summon Committees occasionally."
- £2 · 12 · 6 due W. A. Shettle for Copper delivered to H. Dawkins for engraving projections for the transit of Venus &c. was referred to Drinker & O. Biddle.

Advertisement of the Curators to be continued, under the Committee.

Committee on Seal desired to report at next meeting.

A collection of natural Curiosities presented by Ruth

Johnson, relict of Wm. Johnson. Curators to make a list & return thanks.

1

Com. on Pub. differing—it was "after a good deal of debate" agreed that O. Biddle's Transit Observations should come in immediately after Ewing's, in p. 78.

1770. May 18. (Rhoads, V. P. in the Chair; O. Biddle, Drinker, Jones, Clifford, Wynkoop [sic], Morgan, Alexander, Bradford, Thomson, W. Smith.)

Com. for Am. Imp. reported that the Canal papers & reports "should be abridged and preserved for future use among the printed Transactions . . . Drafts of Canals &c. should be reduced to a convenient scale and engraved for the Illustration of the other Papers, and the satisfaction of those who wish well to the Improvement of the Province.-The Expence of this part of the Publication, the Com. think may be defraved out of the Residue of the money contributed by the Merchants . . . provided the assent of the Merchants can be obtained for this appropriation."-Report agreed to. Rhoads, Lukens, Clarkson, Gilpin, Fisher, Hollingsworth, Ewing and Secretaries, to abridge and prepare the Canal Papers for publication; Fisher and Clarkson requested to reduce the drafts & maps.—This Committee to meet May 25th - Drinker, Clifford, Wynkoop, and Fisher, to get the Merchants' consent.

"That part of the Committee's Report, which recommends it to the Society to take such steps as they may think consistent with the Plan of their Institution to forward the opening a Road between Peach Bottom or Nelson's Ferry Sasquehannah [sic], and the Navigable Waters of Christiana Creek, is left for the further Consideration of the Society."

V. P. to sign an order to pay Strettel's account.

Committee on Seal requested "to finish that Service against next meeting.

Curators read the list of Curiosities from Mrs. Ruth Johnson, "& are desired to enter the List in their own Books." Maskelyne's Observations of the Transit at Greenwich, and the Observations at Providence, R. I. were communicated, and referred to the Com. of Ast. to be extracted for the Transactions.

[Here follow D^{r.} Smith's extracts, occupying 3 pages. See Trans. Vol. I.]

"The Society . . having the Pleasure to find that the Observations of the Transit of Venus made by their order in this Province, were so well received by the Royal Society, & were likely to be of Service to Astronomy, as well as to promote the Credit of this Society; and considering further the great Importance of connecting all their three Observatories, by some actual measurements, in such a manner that the Latitude & Longitude of each of them might rest on the same sure foundation, & all of them, agreeable to the desire of the Astronomer Royal, be connected with the Meridian [sic] Line of Messrs. Mason and Dixon—Messrs Owen Biddle, Joel Bailey & Richard Thomas were appointed to take the Courses & Distances from New-castle Court house to the State-house Observatory in the most careful & accurate manner; & D' Smith, John Lukens, Esq. & M' Rittenhouse are appointed to take the Courses & Distances accurately between Norriton Observatory & that in the State-house Square. And the Society will defray the Expence of these measurements."

1770. June 1. (Bond, Rhoads; Ewing, Clifford, O. Biddle, Hollingsworth, M. Bartram, I. Bartram, Bringhurst, Drinker, Kuhn, Williamson; Dr. Smith.)

Committee on Seal was continued & was desired to perform that Service against next meeting.

Com. of Ast. to meet Wnsdy. "to determine what part of M^r. Ben. West's account of the Transit of Venus, observed by Him & others at Providence, New England, shall be inserted in the Transactions..." Maskelyne's to be inserted entire.

Newcastle measurement committee had done their work and would report at next meeting.—Biddle's expense account "in the whole £11 ·· 14 ·· 4," was referred, examined, found just, and ordered paid.

"An account of the Quantity of *Home-spun* manufactured for the Inhabitants of Lancaster from May 1, 1769 to May 1, 1770, with a particular List of the names of the Different Families who had manufactured any part of the same,

and the number of yards of each Kind made by each of them, with the Stuff yet at the Looms, & the yarn in the House belonging to the said year, all digested with much care and accuracy into Columns & with proper Heads" in a letter from Wm. Atlee Esq. of Lancaster, was read. The Secretaries were desired to publish the same with a short Introduction of thanks to M^{r.} Atlee and the inhabitants of Lancaster "for their Industry, hoping their Example may be of public Benefit at this Time, & convince every one of the many Resources which the People of this Province have in their Power, if they are not wanting to themselves."

"M^{r.} Atlee's letter is as follows viz."—[half page blank.]
"M^{r.} Ewing communicated an Extract of a Letter from D^{r.} Franklin . . viz" [one blank page]

1770. July 20. (Rhoads, Bond, Alison, Williamson-Syng, Ewing, O. Biddle, Jons [meaning Jones].)

The Seal Com. produced two sketches. Dr. Alison added

to the Committee.

Newcastle report would be presented at the next meeting, when M^{r.} Biddle "expected the Norriton Committee would report their Survey from Norriton to Philadelphia."

Accounts of Transit Obs. so far as printed, to be laid before the Assembly. "Astronomical Committee" to meet next Monday "to prepare an address to the Assembly to accompany the said Transit-Papers."

Extract from Franklin's letter postponed.

1770. Aug. 17. (Drinker in the Chair; Ewing, David son, Bradford, Williamson; Dr. Smith.)

"The Astronomical Committee are desired to prepare the Address... and to present the same to the House, with such Corrections as the Vice presidents may think proper, without waiting for any future meeting of the Society. And all the Transit Papers to be bound neatly and presented with the Address."

Rittenhouse's account of the late Comet; -

Rittenhouse's deduction of the time of the Sun's passing the Meridian from equal altitudes without the use of the Tables of the Equation of Corresponding Altitudes;—

Lord Stanhope's Observations of the Transit of Venus and of the late Comet;—all three papers communicated & referred to the Com. of Astronomy.

The Norriton measurement committee reported, and the

report was ordered to be published.

Williamson's paper "attempting to account for the Change of Climate in the Cultivated Parts of North America" was referred to Com. of N. H. & Chemistry.

Jas. Smither's bill for engraving a plate of the Transit of Mercury, $\pm 3 \cdot 10$, reported reasonable, and the V. Ps. to sign an order on the Treasurer.

1770. Oct. 19. (Bond, Rhoads; Williamson, Rush, Jones, Ewing, Jon. Smith, Bradford, Dr. Harris; Dr. Smith, Thomson.)

Com. to address the Assembly reported that they had presented the Address & publications, "with all which the members had expressed themselves well pleased." [The address, one page long, is pasted to the bottom of the page, and folded in, upwards. The blank intended for its engrossment is at the top of the next page.]

The Ast. Com. to be called to consider Rittenhouse's and

Lord Stanley's papers.

Report of Com.—That Williamson's paper on the Change of Climate ought to be published among the Transactions. So ordered.

Williamson & Hopkinson added to the Committee on Seal. Canal-Papers Com. called for Tuesday evening next.

"A Catalogue of such Foreign Plants as are worthy of being encouraged in our American Colonies, with Directions for bringing over Seeds & Plants from foreign Countries in a state of vegetation," in a pamphlet sent by the Hon. Thos. Penn Esq. to the Society, was presented by S. Powel Esq. "an abstract of which was ordered to be prepared by the Secretaries to be inserted in the Transactions, & M^{r.} Powel is requested to return the thanks of the Society to M^{r.} Penn for this mark of his notice & approbation of the Purposes for which the Society is instituted."

1770. Nov. 2. (Rhoads, Bond; D^{r.} Smith; Rush, O. Biddle, Shippen, jun, Williamson, Clifford, Fisher, Rhea, Jon. Smith, Coombe, Bradford, Alison, Morgan.)

Abstract of Canal Papers read & ordered to be printed. Fisher's map ordered to be engraved.

Alphabetical List of Members, and Officers, also the laws, ordered to be published with the Transactions.

Seal Com. empowered "to fix on such Devices as they may see proper, & get it engraved without further delay."

"Effects of the Strammonium [sic] or Thorn apple" by Dr. Rush, read & referred to Med. Com. to report.

Com. of Ast. ordered "to collect into one General View the Times of the Contacts of the Limbs of the Sun and Venus" &c. &c. "to see what Parallax of the Sun these distant observations will give . . ."

1770. Nov. 15. (Rhoades; Allison, Semitier [sic], W. Shippen jun. Rush, I. Bartram, Jon. Smith, Paschall, Williamson, Clarkson, O. Biddle, Jones; Dr. Smith.)

Rush's paper pronounced by the Med. Com. to be ingenious and deserving a place in the Transactions.

Ast. Com. report "[as in pa: 12th of the Appendix to Astronomical & mathl. papers in ye Society's Transactions]."

Dr. James Smith's letter to Dr. Shippen jun. recommending Sam. Felsted* [sic] "an ingenious young gentleman" as a "Correspondent member," and sending by Cap" Barber as a specimen of his abilities "a small Box containing a delineation of a few Butterflies of this Island [Jamaica.].. you may easily perceive what such a Genius is capable of performing should it attempt the Natural History of this

^{*} This name is spelled Filsted in proceedings of January 18, 1771.

Island . . . "—"N. B. An under & upper View of 28 different Butterflies accompanied his letter."—Thanks ordered.

Clarkson & Rush to collect delinquent dues.

"On Comets and Fire," a paper by Dr. Williamson, referred to the Com. of Ast. & Chemistry.

"Ordered that no pieces be printed in the present Volume that are communicated after this night".

1770. Dec. 2. (T. Bond, Alison, Ewing, Clifford, O. Biddle, Jones, Jon. Smith, Williamson, Morgan, Bringhurst, Simitiere [sic], Aspden, Fisher, James, Drinker; Dr. Smith.)

"Enquiry into the Nature, cause & cure of Angina Suffocativa," by D^r Bard, jun. of N. York, referred to Med. Com. to print in Vol. I. "it being considered as a paper that was formerly intended for the society, but delay'd by Accident."

The Report of the Committee on Williamson's paper, was read and approved.

"The managers of the scheme for promoting the Culture of Silk . . . first set on foot by this Society, presented, for their Inspection, the Silk which had been prepared and reeld [sic] by them on the Public account during the last season, and the Society expressed their satisfaction with the Progress made in this Design, and as the Silk appears good in quality and very neatly done up, they are in great hopes that the Culture of Silk will soon become a valuable addition to the productions of this Province."

1770. Dec. 21. (Bond; Clifford, Aspden, Jon. Smith, Bradford, P. Eugene Du Simitier [sic], Morgan; Dr. Smith.) Election appointed to be in the Hall, and advertisement ordered.

Vice-President, Secretaries, Curators Dr. Morgan and Jons. Smith a Com. "to settle the advertisment to be prefixed to the Transactions, & revise the list of Members before it is printed off—to meet on Monday next at 6 o'clock."

1771. Jan. 4. "At the Society's Hall." (Lukens, Rittenhouse & Coombe, Judges; Jones & M. Bartram, Clerks of Election.)

President, Benjamin Franklin Esq. LLD., F.RS. &c.

V. P.—Rhoads, T. Bond, Galloway.

Sec .- W. Smith, Rittenhouse, Ewing, Jones.

Cur.-W. Shippen jun., Rush, Kuhn.

Treas.—Thomas Combe [sic].

1771. Jan. 18. (Bond, Roads [sic]; Combe, Evans, Morgan, Lukens, Clifford, Drinker, O. Biddle, Cl. Biddle, I. Bartram, Hollingsworth, Syng, Mr. Physick, Mr. Jacobs, Fisher, Bringhurst, Gilpin, Fooks, Davidson, Williamson, Simitier, Aspden, I. Smith, Khun [sic], Dr. Shippin [sic] Junior, Dr. Smith, Rittenhouse, Ewing, Jones.)

Dr. Smith's "account for cash advanced by him on the Survey from Norriton to Phila & planishing a Copper Plate, amounting to $\pounds 6 \cdots 5 \cdots 6$," referred to Gilpin & Drinker.

R. Kennedy's account, £16 $\cdot 5$, referred to the same.

Election of 15 new members:—Dr. Morton of Jamaica; Dr. Jas. Lloyd of Boston; R. Thomas, of Chester Co.; Henry Hill; W. Parr; S. Bhoads Jun.; T. Preston; H. Bembridge; J. Baynton; Dr. S. Preston Moore; Jos. Otolenge, of Georgia; Nevel Maskelyn [sic]; S. Filsted, of Jamaica; Dr. Gloucester * of Antigua; & Fred. Marshall of N. C.

Syng's accounts referred to Drinker & Fisher. Order in favour of R. Kennedy for £10.

1771. Feby 1. (Syng, Fooks, J. Smith, Physick, Rhea, Simitiere, Rittenhouse, Jones; Dr. Smith.)

Audit. Com. find $\pm 6 \cdot 5 \cdot 6$ due to Dr. Smith. Ordered paid.

Coomb's Met. Obs. at Phila. Dec. 1770 to Jan 15 1771. "See Trans. Vol. I. Appendix, p. 70."

^{*}Spelled Gloster in proceedings of March 16, 1770.

Bradford's accounts for printing to be audited by Dr. Smith & Mr. Fooks.

A Copy of Trans. ordered to be "presented to the Proprietaries, the Governor, to each member of Assembly, the Assemblies Library [sic], the Library of Philadelphia, to the Library of every College, in America, to the Royal Society of London, each of the foreign Philosophical Societies and to the Pennsylvania Hospital; the Secretaries to have the care of presenting these Books."

Rittenhouse's paper relating to Birds being charmed by snakes was read.

1771. Feby 17. (Bond; Shippen jun., Kuhn, Coombe, Alison, O. Biddle, Simitiere (sic), Williamson, Jon. Smith, Dr. Witherspoon, Physick, Morgan; Dr. Smith, Ewing, Jones.)

D^{rs.} Smith, Morgan and Kuhn, were appointed a committee to bring in "a List of the most considerable Philosophical Societies in Europe."

Jas. Smither's account, £13 ·· 3, referred to $D^{r.}$ Smith Simitier (sic) & O. Biddle.

An order was drawn on the Treasurer for Henry Dawkin's account for engraving, (£7.10, see above.)

"Agreed; That a person be employed by the Treasurer and Dr. Smith to go round with the Transactions and deliver them to the Members upon Receipt of arrearages due before the 1st of Jany, 1771."

Syng's bond was delivered up to Mr. Physic, "he having faithfully discharged his Trust."

Repairs on the Observatory to be directed by D^r . Smith & M^r . Ewing.

Hall & Bradford to "give their opinion, at what price the" Vol. of Trans. "can be sold at the most moderate Rates to report at a Special Meeting, Friday next.

1771. Feby 22. Special Meeting. (Dr. Redman in the Chair; Alison, Kuhn, Rush, Bembridge, Bradford, O. Bid-

dle, Fooks, Morgan, Pearson, Drinker, Clarkson, Simitier, Williamson, I. Smith, Coombe; Dr. Smith, Jones.)

List of most considerable Philosophical Societies, reported:
—Royal Societies at Stockholm, Upsal, Berlin & Göttingen;
Imperial Society of Petersburg; R. College of Physicians in
London; Society for promoting Arts & Manufactures, London; Philos. Society, Edinburgh; Dublin Society; Acad. Nat.
Curiosorum; Society at Berne; R. Acad. Sc. Paris; Acad. of
Boncnia; Acad. Sc. at Turin; Acad. at Florence; British
Museum; Universitys (sic) of Oxford, Cambridge, Dublin,
Edinburg, Glasgow, St. Andrews and Aberdeen,—"to which
copies of the Transactions are to be presented, together
with those to the persons and Institutions mentioned in the
minute of the first Instant, to which Disposition the Society
concurred."

Smither deducts 40 sh. from his account. Ballance (sic) ordered paid.

M^{r.} Clarkson exhibited an account of cash expended on the Survey from Apoquiming to Bohemia, £47.1.11. "Ballance" £2.18.1 ordered paid to the Treasurer.

Price of Transactions fixed at 15 shillings.*

Drinker, Fisher & Bradford, to wait on the Merchants, for the remainder of the subscription to the Surveys, and present those not members with a Volume of Transactions.

Copies of the Transactions to be presented to Buffon, Ferguson, Fothergill, Linnæus, Hahn, Maskelyne, Richard Penn, Sir Geo. Saville, and Ben. West.

Rhoades, Smith, Drinker, Kuhn & the Treasurer to examine Bradford's account & "the State of the Society's Funds"; also Jas. Pearson's account.

"The Secretaries reported that this day they waited upon the honble House of Assembly of this Province and in the Name of the Society presented a Volume of the Transactions to each Member; and to their Library, together with the following address; Vizt.—[Address of half a page follows.]

Advertisement to "be inserted in the papers next week,

^{* [}Two dollars.]

informing the Public, that the Transactions are ready for Sale at M^{r.} Bradford's."

1771. March 1. Society's Hall. (Bond; Coombe, Redman, Shippen Jr., Physick, Fooks, Wyncoop, Clarkson, Clifford, Simitier; Jon. Smith, Jones.)

Committee on State of the funds continued.

"M^{r.} T. Coombe, Treasurer, delivered to D^{r.} Bond, V. Pre. his Obligation in *five hundred Pounds* for the faithful discharge of his Trust; M^{r.} Philip Syng was bound with him."

1771. March 15. (Rhoads, Bond; Coombe, Lukens, Morgan, Khun [sic], Clifford, Redman, Clarkson, Simitiere [sic]; Smith, Rittenhouse, Jones.)

Form of letter to accompany the Trans. to Foreign Societies and Gentlemen, to be drawn up by the Secretaries.

Dr. Peters's account for Rent, £12; order drawn.

1771. April 5. (Bond; Shippen, Khun [sic], Bradford, Smith.)

II. Dawkin's engraving bill, £1 · 2 · 6; order drawn.

Michael Cirbet's bill for "a year's attendance on the Society, and for three sh. paid by him for hawling Wood" \$5.00; order drawn.

1771. April 19. (Bond; Kuhn [sic], Shippen, Clifford, Jon. Smith, Bringhurst, Duffield; Smith, Rittenhouse.)

Soc. for the Culture of Silk in Norwalk, Conn., by letter, requested some White Mulberry seed and pamphlets. Smith, Clifford & J. Smith to answer and send seed and pamphlets.

"Order signed on the Treasurer" for Nevel's copperplate printing bill, $\pm 20 \cdots 7 \cdots 6$.

1771. May 3. (Bond; Clarkson; Rittenhouse.)
John Arbo's letter & present. Thanks voted.

Note.—"For particulars of which ['curious and valuable present'] see a List of Communications published by The Society 19th Decr. 1771. J. T. C."

1771. June 21. (Bond; Alison, Kuhn, Coombe, Williamson, Clifford, Fooks, Alexander, Bradford; Dr. Smith, Rittenhouse, Jones.)

Specimens of Flint Glass from W. H. Stegle, manufactured by him, at Manheim, Lancaster Co. Coombe, Rittenhouse, Williamson "to examine them and publish an account thereof in the next papers."

"Some remarks on some obvious Phenomena of Light" in a letter from Hon. Cad. Colden, Lt. Gov. of N. Y. referred to Smith, Rittenhouse & Williamson.

M^{r.} Dickinson's telescope to be returned to him by D^{r.} Williamson with thanks. Expense incurred by D^{r.} W. "on act. of said telescope to be defray'd by the Society."

"M^{r.} Bradford is desired to send a number of the Trans. to Boston, S. Carolina & where else he has reason to think they will meet with ready sale; 25 copies to each place."

1771. July 19. (Alison in the chair; D^{r.} Ch. Moore, Clifford, I. Bartram; Smith, Rittenhouse, Jones.)

"Specimen of Siberian Barley with some account thereof"

presented by Bartram.

"On the nature of the Worms so prejudicial to the Peach Trees for some years past, and a method for preventing the Damage in future," in a letter from Jos. Cooper, N. Town, Gloscester Co., N. J. to Mr. Clifford. Ordered to be published in the Pennsylvania Gazette and Journal.

1771. Aug. 16. (Bond; Clifford, Clarkson; Smith, Jones.)
"A case of an Abscess in the Lungs, of long standing, attended with very alarming symptoms, remarkably relieved, during this Season, by drinking and bathing in the Bristol Waters" in a letter from D^{r.} DeNormandie [sic] to D^{r.} Bond.

Order drawn on S. Taylor, bookbinder, to deliver 6 copies Trans. to M^{r} . Clifford.

"Whereas, this Society . . . desirous to promote the Inland Navigation of this Province, at considerable expense PROC. AMER. PHILOS. SOC. I. V. PRINTED JULY 20, 1888.

made several Surveys . . . being informed that there is a probability of joining the Navigation of Susquehannah and Schuylkill, by a canal between the Quitipihilla Branch of Swatara and Tulpehocken, and, as the . . Assembly . . were pleased to appoint a Committee for examining the place aforesaid among others . . . The Society do therefore request \mathbf{M}^{r} . Lukeus the Surveyor General to attend the said Committee and give all the Assistance in his power . . . His Expenses will be defrayed by several public spirited persons . . ."

1771. Oct. 18. (Bond; Coombe, Clarkson, Williamson, Duffield, Bradford, Lukens; Smith, Jones, Ewing.)

List of outstanding debts called for.

Franklin's letter, that he had received a box of eleven copies of Trans. & had delivered most of them. Ordered that the copies designed for Foreign Socs. & Universities be sent without loss of time to D^r. Franklin.

1771. Nov. 1. (Rhoades; Pemberton, O. Biddle, Jon. Smith, Bringhurst, Williamson, Rush, Fisher; D^{r.} Smith, Ewing.)

Account of a machine for working a number of scythes with a horse, in a letter from the inventor, John Jones of Indian River to O. Biddle. The model to be exhibited at the next meeting.

A letter attempting to illustrate the Doctrine of Tides, from S. Cunningham of Mountjoy in Lancaster Co. to M^{r.} Ewing; read and referred to the Ast. Com.; M^{r.} Ewing to convene them for that purpose. [Blank half page.]

Nairnes' Rain-Gauges ordered to be committed to the care of Lukens, Rittenhouse, O. Biddle, Bringhurst, Williamson & Kinnersley "to be put up under such inspection as they shall agree upon, for observing the quantity of rain that falls at different heights, agreeable to Mr. Nairnes' request, and Dr. Heberden's experiments in the Philosophical Transactions,"

- V. P. Secs. & Pemberton to "prepare an address to the Governor requesting his Patronage."
- 1771. Nov. 2. Society's Hall. Com. met and prepared the Address, adjourning to meet "here" at 12 o'c the 4th to present it.
- 1771. Nov. 4. Society's Hall. Rhoades & Bond V.P. "with the Secretaries, Curators, Treasurer & a number of the members met & waited on his Honor the Governor with their address, which was received by him in a very obliging manmer. The address was as follows:

To the Honorable Richard Penn, Esquire, Lieutenant Governor, & Commander in Chief, of the Province of Pennsylvania, and Counties of New Castle, Kent & Sussex on Delaware,

The Address of the American philosophical Society held at Philadelphia for promoting useful knowledge.

MAY IT PLEASE THE GOVERNOR.

As we partake in the general Satisfaction arising from your appointment to the Government of this province, we wait upon you with our Congratulations on your safe arrival & our best wishes for the Success and Happiness of your Administration.

The Experience of the most civilizd [sic] Nations both shewn the Usefulness of literary Societies for encouraging Arts, promoting a Spirit of Enquiry & bringing men of Merit into public View; nor have crowned Heads thought it unworthy of them to be enrolled as patrons & protectors of such Societies in their respective Dominions.

Desirous, in like manner, of obtaining Countenance from the powers that are in Authority over us as well as of manifesting all due Respect to them, the Governor of this province, for the Time being, is, by one of our fundamental Articles, constituted PATRON of our Society; and we Solicit your Acceptance of this Office with the greater Confidence, as your Character & Disposition give us reason to hope, that you will not consider the Encouragement of useful Improvements in the province over which you preside, as the least honorable of the Duties belonging to your high Station.

Signed in Behalf & by Order of ye Society

1771. Dec. 6. Society's Hall. (Rhoads; O. Biddle, J. Smith, Clifford, Williamson, Bradford, Ewing, Jones.)

J. Jones' "Model of a Machine for mowing with a Horse," was presented & referred to the Com. of Husb. & A. Imp.

Ast. Com. report on Cunyngham's [sic] paper called for.—Thanks to M^{r.} Nairne of London reported sent.—R. Kennedy's account, £8 ·· 15, reported just and order drawn.

"Path of a solar Shadow on a horizontal plane," a paper in a letter from Andrew Oliver of Salem, N. E.

"A small quantity of American Asbestos, found near Newbury, some prepared in Wick for lamps, & some for Writing paper," from Andrew Oliver; referred to the Coms. of Ast., & Husb. & A. Imp.

"The Draft of a Vessel for sailing on the Ice," in a letter from a person at Canogocheague to I. Bartram; referred to Committee of H., & A. I.

"The Model of a Machine for weighing loaded Waggons," presented by the Commissioners of the County of Philadelphia, upon Condition that they & their successors in office may at any time have recourse to the same.

Williamson's account of payments for repairing & returning Dickenson's Telescope, 5 shillings. Order drawn on the Treasurer.

List of Papers & Presents ordered, to be "inserted in the Pennsylvania Gazette & Journal [published 19th December]."

1771. Dec. 20. (Redman in the chair; Williamson, Bradford, Rittenhouse, Ewing, Jones.)

Ast. Com. reported Cunningham's [sic] Explanation of the Theory of Tides, "concise & intelligible, altho' in effect the same given by writers on that subject."—Mr. Oliver's Delineation of a Solar Shadow they find "more minutely discussed by him than any author that has fallen into their hands. [Mr. Oliver's Delineation not returned by Mr. Ewing.]" Committees of last meeting continued.

"On the Variation of the Compass," by Dr. Williamson; paper referred to the Ast. Com. "& the Dr. to convene them."

"An Account of the Countrey [sic] of the Illinois," in a letter from Thomas Hutchins, Eng., to Mr. Ewing; referred to the Committees of Husb. & Am. Imp.

Election of Officers ordered in the Hall, public notice to be given in the Penn. Gaz. and Journal.

PROCEEDINGS ANNO 1772.

1772. Jan. 3. Society's Hall; Bond, Alexander, Fooks, judges; Bradford, Jones, clerks.

ELECTION OF OFFICERS.

President, Benjamin Franklin, LL.D., &c. Vice Presidents, Rhoads, Galloway, Bond. Secs. W. Smith, Jones, Shippen, Jr. Moore. Curs. Rush, Alexander, Rittenhouse. Treas. Coombe.

1772. Jan. 7. (Ewing, Clifford, Morgan, Rittenhouse, Coombe, I. Bartram, Alexander, Bradford, Williamson; Jones.)

"Observations upon the Spots on the Sun's Disk," from Nov. 15 1770 to Dec 25, 1771, in a letter from Humphrey Marshall of Chester Co. referred to the Ast. Com.

Com. on the State of the Society's Funds not having reported, Rhoads, Coombe, Drinker, Khun [sic], Morgan & J. Smith "have that service committed to them to exhibit to the next meeting an exact state of all accounts . . . monies due to, and by this Society . . ."

1772. Feb'y 7. Society's Hall. (Bond; Coombe, Ewing, Williamson, Morgan, O. Biddle, Lukens, Rittenhouse, Bradford; Jones.)

Ast. Com. report that they "think the carrying his [Wil-

liamson's] proposal into Execution would be of general Utility, contributing greatly to the Perfection of Navigation & Surveying, therefore they recommend it to the Society."—Ordered, that Williamson's paper on the Variation of the Magnet be published in the Penn. Gazette & Journal with an advertisement earnestly requesting "the ingenious & learned, thro' the several Colonies, to favour them with their magnetical Observations, in the course of the present Year, & hope for the Continuance of their Correspondence."

Rittenhouse communicated "Various astronomical Observations, made in Canada by Captn. Samuel Holland, Surveyor General of the District of Quebec, Lieut Haldimand & Ensign Sprowle," from January 1765 to May 24, 1770.

The Ast. Com. reported that H. Marshall's "Observations on the Solar Maculæ appear to have been made with great Care & Industry, & may be of some service in determining various Questions concerning the Theory."

"Accounts of the Transits of Venus & Mercury, a solar Eclipse & meteorological Observations, from Jan 1. to Dec 31, 1771, in a letter from "the Rev^{d.} Mr. Sam. Williams of Bradford, in the Massachusetts-Bay" to Dr. Williamson, was referred to the Ast. Com. & thanks ordered. "As the above mentioned Letter came by Post and cost the Dr. 6 "10, an order was drawn in his faver [sic] upon the Treasurer for that sum. [Dr. Williamson has these Papers, J. T. C.]"

"The Committee upon the Accounts is continued, & Mr. Morgan is desired to summon them to meet at Mr. Coombe's at 10 o'clock on Monday morning."—" Agreed, that a Special meeting of the Society be held this Day sennight at 6 o'clock in the Evening, to receive & consider the Report of the Committee of Accounts of which public Notice to be given."

1772. Feb'y 14. Special Meeting in the Society's Hall. (Bond; Coombe, Morgan, Rush, Bradford, Williamson, Hollingsworth, Clifford, Rittenhouse; J. Smith, Jones.)

Com. of Accounts reported a sketch of the State of the Society's Debts &c. "The Company present divided the List of members amongst them, and are appointed to receive the outstanding Subscriptions together with any Gifts or Advance of annual payments they can procure."

Bradford agrees to buy 100 Transactions at 10 shillings

each.

1772. Feb'y 21. (Rhoads, Bond; Coombe, Morgan, Williamson, Preston, Bartram, Alexander, Wynecoope [sic]; W. Smith, Jones.)

Order drawn on S. Taylor bookbinder to deliver 100 copies Trans. to M^{r.} Bradford.

"Seeds & dry'd Flowers of the Somo or Skimmi & some branches of the Emetic Bear," from Dr. Lorrimore of Pensacola, referred to C. of N. H. & Chemistry. [In Dr. Williamson's possession.]"

1772. March 6. Society's Hall. (Bond; Coombe, Rush, Williamson, Bradford; Jones.)

Bradford acknowledged receipt of the 100 Transactions. Corbet's bill for Wood &c. 8 · 9d ordered paid.

"An Enquiry into the Method of preventing the Effects of Cold on the Human Body" by D^{r.} Rush, referred to C. of N. H. & C. "which the D^{r.} is to convene this Day sennight. [D^{r.} Rush had this paper back.]"

"M^{r.} Felsted of Jamaica having sent *Ten Shillings* to pay his *annual* payment the Treasurer is desired to deliver a Volume of the Transactions upon Receipt of said money, but M^{r.} Felsted is to be informed that there remain Ten Shillings yet due from him for *Entrance Money*."

1772. April 17. Society's Hall. (Coombe in the chair, Penington [sic], H. Drinker, O. Biddle, Khun [sic], Alexander, Bradford, John Drinker, Simitier [sic], Redman, Hillegas, Rittenhouse, Evans, Rush, J. Smith, C. Biddle, M.

Bartram, "M^r J. Paschal, M^r J. Paschal" [sic]; D^r W. Smith, Jones.)

Election of 12 new members:—Lieut. Stephen Adye of the R. Artillery;—M^{r.} Jesse Lukens of Phila.;—M^{r.} Daniel Coxe of Trentown [sic];—M^{r.} Lane of London;—Lieut. Thomas Hutchins of the 60th Regiment;—M^{r.} Peter Dolland of London;—M^{r.} Archibald M^cClean of York county;—M^{r.} Gerard Bancker and Capt. John Montresor of New York;—Col. Henry Laurens and D^{r.} George Milligan of S. Carolina;—Rev^d M^{r.} Samuel Williams, Massachusetts-Bay.

"Six colored Prints from a large work intituled Musæum Britanicum which he is preparing for the Press" from Taylor White Esq. of London. The Treas., Secs., Khun [sic] & Simitier to answer said letter.

1772. May 1. Society's Hall. (Bond; Alexander, Ewing, Bradford, Rittenhouse; W. Smith.)

A letter from Franklin.

A letter from Rev^d M^{r.} Ludlam, Prof. Ast. Cambridge relative to the Vol. Trans. with "his Astron. Obs. Theory of Hadley's Quadrant, Essays on ultimate Ratios, & a Magazine containing a paper of his relative to the Trans. of the Society."

A letter from Samuel More, Sec. Soc. Arts in the Strand.

A letter from J. R. Forster, presenting Halm's travels, Bossu's travels, a Catalogue of Amer. animals, a Catalogue of Plants, & a Centuria of new Insects.

"Mr. Small's circular Scheme for noting the Variations of the Barometer & recommended to be used by the Members" [sic].

Royal Soc. presented Vols. 59 & 60 Trans. "for our Volume."

Two Pair of Snow Shoes presented by Jas. Dickinson.

An Indian Hatchet of stone presented by Israel Jacobs.

"All the above Articles were referred to the Consideration of the next Meeting, &, as the different Communications are very respectable to this Society, the Members present, are desired to take Pains to get as many Members together as they can against the Time, when they are to be more fully examined."

1772. May 15. Society's Hall. (Bond; Alexander, Bradford, O. Biddle, Khun [sic]; W. Smith & Jones.)

Consideration of presents referred to a fuller meeting.

Dr. Sandiford of Barbados [sic] returns thanks for his election, will pay any dues, and applies for a copy of the Transactions.

Coburn's bill for Candles £1 · 16 · 9, ordered paid.

Secs. report sending in a box to Franklin & Falconer 18 copies Trans. for the foreign Universities, and Academies, & 9 copies for D^{r.} Franklin; each with the following address prefixed:—"The American Philosophical Society held at Phila· humbly desirous to cooperate wth [the Society's name] in their laudable endeavors for the Advancement of useful Knowledge, request ye learned and respectable Body to accept this Vol. as the first Fruits of their Labors in this new World.—By order of the Society—William Smith, Robt. Strettell Jones, Secretaries."

1772. June 19. Society's Hall. (Bond; Coombe, Rittenhouse, Alexander, O. Biddle, Bradford, Rush, Ewing; Smith, Jones.)

Vice President reported that he had officially requested the Governor to be present, but "that thro' the Hurry of Business he feared he should not be able to attend, but would endeavour to be present at some future meeting."

Communications by D^{r.} Bond:—List of Royal Society of London;—Letter from D^{r.} Burgeus, Stockholm, with his Descriptions of the Plants at the Cape of Good-Hope and Essay on Ipecacuanha;—D^{r.} Sandiford's account of the Epidemic in Barbados.

Communications by Dr. Smith: - Letter from Dr. Wran-

gel, with an account of methods of bathing in Sweden; and a pamphlet of Exercises, delivered at Upsal.

Priestley's New Treatise on Optics, from the author.

The 6 colored prints (April 17) were of the male and female Cow Deer, the female Moose Deer, Tarandus, Elk and Rain Deer [sic].

Mr. Bradford requested to apply for either the money or the copies sent away for sale.

1772. August 21. Society's Hall. (Coombe, Rittenhouse, Bradford; Jones.)

Letter from And. Oliver of Salem relative to his lately published (in Boston) Essay on Comets.

1772. Dec. 18. (Rhodes [sic]; O. Biddle, J. Smith, Rush & W. Smith.)

A paper by D^{r.} Tilton of Dover on an extraordinary case of hydrophobia, was referred to the Med. Committee.

PROCEEDINGS ANNO 1773.

1773. Jan. 1. Society's Hall. (Bradford, O. Biddle & Duffield, judges, Bond & Jones, clerks.)

ELECTION OF OFFICERS.

President, Benjamin Franklin, Esq. LL D &c. V. P. Galloway, Rhodes [sic], Bond. Sec. W. Smith, Jones, O. Biddle, Rush. Cur. Rittenhouse, Duffield, Alexander. Treas. Coombe.

1773. Jan. 15. Society's Hall. (Galloway, Rhoades [sic], D^{r.} Bond, Coombe, Rittenhouse, Morgan, Ewing, Rhea, M^{r.} Smith, Bradford, Adye, Redman, M^{r.} Bond, White, Miles, Lukens, Jesse Lukens, Peters, Duffield, Physic [sic]; D^{r.} Smith, Jones, Rush.)

Extract from Franklin's latter to Galloway:-

"I must now beg leave to recommend to your Society Baron de Klieng-stadt of Petersburg who has lately travelled thro' England to collect Improvements in Husbandry &c. Being acquainted with him I took the Liberty of requesting his Care of our Book directed to the Academy of Sciences at Petersburg, & I gave it to him open as he expressed a Curiosity to read it. He was so pleased with it & conceived so high an Opinion of the Society that he desired the Honor [sic] as he politely expressed it, of being a Member, offered to correspond with the Society, & send them from Time to Time any Information, Seeds or other things they might want from Russia."

Election of 9 new members:—Timothy, Baron de Klingstedt, Counsellor of State to the Empress of Russia, Petersburg &c; Mons. Le Rey, Vice Director Academy Sciences, Paris; Hon. And. Oliver, Boston; Dr Torbern Bergman, Prof. Math. Stockholm; Alex. Small, London; Dr Jas. Tilton, Dover; Dr Nich. Way, Wilmington; Revd W. Ludlam, Leicester; Revd Thomas Coombe, Philada.

Letter from J. Leacock about "his Scheme of establishing a *Public Vineyard*." The Secs. to "inform him that they approve the encouraging the Culture of Vines & wish him the greatest Success, but, as Lotterys are contrary to the Laws of the Province, they cannot countenance his Undertaking."

Mayer's Treatise approving the Transit Observations of the Society & confirming them, was communicated in a letter from Rev^d M^r Farmer to D^r. Bond.

"Agreed unanimously—that an Annual Oration or Dissertation be delivered upon the 3^d Friday of January, upon some literary subject, by a Member, to be previously appointed by the Society."

"The Oration which Dr. Smith had prepared for this evening was adjourned to Friday next, of which public Notice is ordered to be given, his Honor the Patron being prevented from attending."

Extract from DeNormandie's letter to Bond describing "a preternatural Birth," near Bristol, with drawings.

being present together with a considerable Number of the Members & many other Gentlemen, both Strangers and Fellow Citizens, The Rev^d Doct^{r.} Smith delivered his *Oration* agreeable to order."

1773. Feb. 5. Council Chamber in the State House. (Rhoads [sic]; Coombe, Alexander, Clarkson, Wyncoop [sic], Duffield, Rev^d M^{r.} Coombe; D^{r.} Smith.)

Ordered to print 500 copies of the Oration.

An address to the House of Assembly, to be drawn up & presented by D^{r.} Bond & the Secretaries, "acknowledging the kind assistance they (the Assembly) have heretofore given to this Society carrying on the Designs of their Institution, & praying some farther Help to enable us to discharge the heavy Debts still due for our first Publication & to prosecute our Undertaking the better for the Future."

The Treasurer to make out his accounts & moneys due; Morgan & Jones to assist.

"An account of the Electrical Eel or Torpedo of Surinam," in a letter from Dr. Bryant of Trenton [sic] to Dr. Duffield.

1773. Feb'y 19. Society's Hall. (Bond; Coombe, Biddle, Ewing, Clarkson, Rittenhouse; Dr. Smith, Jones.)

The V. P. reported the presentation of the Address [which follows, occupying one page]:

To the Honorable the Representatives of the Freemen of Pennsylvania in General Assembly met;

Gentlemen, As we must always think it our Duty most gratefully to acknowledge the early Countenance and liberal Assistance, which, as a Society, we have received from former Assemblies of this Province; nothing could induce us to make further Applications for public Aid but the Necessity of our Case & a firm persuasion that the present Members of your honorable House still view our Institution in the same friendly Light as your Predecessors have done. We would not therefore repeat on this Occasion, what we have formerly taken the Liberty to represent to them, concerning the Use of public Societies for promoting useful Discoveries, domestic Improvements & the Reputation of those Countries where they have been established: We rather hope that we may be allowed now, as

an Instance of this, to mention our own Society, which has already promoted several useful Undertakings, & by some of its Productions, especially those relating to the Transit of Venus, has extended the literary Fame of our Country to distant parts of Europe.

Distant Ages will certainly do honor to the Assembly of *Pennsylvania* for having encouraged the Observations of the Transit in this Part of the World, which in other parts (tho' indeed under many Disadvantages, & therefore with less Success) were carried on chiefly at the Expence of crowned Heads. As these Observations could never have been undertaken by our Society, in so many places, without such public assistance, we hope the House will give us leave to observe that the erecting our different Observatories, fitting up Instruments, engraving various plates & publishing the different *Transit-Papers*, cost us (exclusive of the other part of our publication) near *Four Hundred* pounds, & have involved us in a Debt which we are wholly unable to discharge.

We therefore pray that your honorable House would give us such Assistance as in your Goodness you shall judge proper, to enable us to discharge the said Debt, & to prosecute our plan for the future, without having Occasion to solicit any other Assistance, besides the Annual Subscriptions of our own Members.

February 11th, 1773. Signed by Order & in Behalf of the Society.

Thomas Bond, V. P.

Com. on Accounts continued.—Treasurer requested to employ Andrew McNair as collector, at 5 p. c. commission.

Biddle and Clarkson to get the Design of the Seal in Jones' possession executed without delay.

Bond & Smith desired to recover from I. & J. Paschall "any minutes or other Papers which they may have belonging to the Society and have them deposited in the Cabinet."

"Design for a Fireplace of a new Construction by Ebenezer Robinson," communicated by M^r Biddle; thanks ordered.

1773. March 5. Society's Hall. (Rhoades [sic], Bond; Alison, Duffield, Clifford, Mifflin, J. Smith, Alexander; Jones, O. Biddle.)

Com. on Accounts continued.—Treasurer absent, no report respecting M°Nair's appointment.

"The House of Assembly had been pleased to pay such Regard to the petition of this Society as to order the Sum of Two Hundred and Fifty Pounds to be paid by the Provincial Treasurer for further carrying on our Designs. Mr. Rhoades had delivered the Speaker's certificate for that Sum to our Treasurer."

Com. on Seal reported that they had the Design, and were requested to have it executed in the best and most expeditious manner.

The Paschall Com. reported "that they had delivered the 2^d Vol. of Minutes (which the Doctor brought with him) & would endeavor to procure the other Volume."

"The Society taking into consideration the great advantage that might be derived to the Public from Premiums granted to encourage the manuring of worn out Lands, which has been done with abundant Success in several parts of Europe by Marle & other composts, appointed Mr. Rhoades, Dr. Alison, Messrs Clifford, Mifflin, Alexander & Biddle a Committee to consider of such Improvements in Agriculture as will be most likely to succeed in this Province & of the Premiums to be granted for that Purpose, of which they are to report at the next Meeting."

Alison, Duffield, Smith & Jones, "to confer with such persons in this City as are concerned in the *Paper Manufactory* on the most probable Means of firmly establishing that branch of Business amongst us: they are to report at the next Meeting."

1773. March 19. (Bond, Rhoades; Alexander, Gilpin, Jones.)

Com. for settling the Treasurer's accounts still continued.

"M". Rhodes informed the Society that Arthur Donaldson, of Southwark, is constructing a Machine for Cleaning Docks &c. with which some experiments have been made that give foundation to expect Success; the Society, desirous to encourage so useful an Invention, appointed D". Bond, Messrs. Rhoades, Gilpin, Hollingsworth & Fisher to examine the same and report thereon at the next Meeting."

The Paper Com.—"Robert Bell waited upon the Society, this Evening with a Plan for encouraging the Undertaking." Adopted "with a few Alterations," and ordered to be published in the several Newspapers of this City. [The Money to be paid in Premiums is subscribed by Messrs. Crukshank, Dunlap, Hall, Bell & Humphreys, & Mr Bell engages to collect it whenever the Society pleases, as will more fully appear by the Subscription Paper delivered, by order of the Society, to the Treasurer.]"

R. S. Jones "communicated a letter from Rev^d James Manning, Prest. of Rhodeisland [sic] College, returning the thanks of that Corporation" for Trans.

R. S. Jones "communicated a letter from Rednap Howell of Boutetourte Co. Va. treating of a Moss used in dying Purple, and of a Silk reel invented by himself." Referred to C. of Husb. & Am. Imp. "Papers containing sundry specimens of Nat. Hist." enclosed in the letter were delivered to Mr. Alexander, Cur. for examination.

" $M^{r_{\rm c}}$ Gilpin is requested to provide a plain Bookcase for the Use of the Society."

Marle from near Wilmington & "Alum from the Banks of Monongahela" were "thankfully received & deposited in the Cabinet."

1773. April 2. (Rhoades; Alison, Clifford, Rittenhouse, Ewing, Alexander, Clarkson, Hollingsworth, Jones; Biddle, Rush.)

Alexander's bill for ink & a blank book, $10 \cdot \cdot 1$, ordered paid.

Com. on the Donaldson Machine requested to report.

"Hints for improving the present State of our Agriculture, with a sketch of such Premiums as may be proper to excite the public attention &c," read by Alison & referred to the C. on H. & A. I. to meet next Friday, 7 p. m.

"Account of an Aurora Borealis observed by him at Bradford, N. E. July 25, 1772, and of a remarkable Child born

at Woburn, N. E. April 1772, with an exact Drawing of the same," in a letter from D^{r.} B. Thompson of Concord, N. H.

The Secretaries are requested to examine the Newspapers for an Advertisement sometime ago published by a Person in Maryland, who proposes for a certain price, therein mentioned, to search for Marle, thro' America, and report to the next Meeting."

1773. July 18. (Williamson, Alexander, Gilpin, Lukens, Bradford, Rittenhouse; Smith, Rush & O. Biddle.)

"Model of a Bridge," with a letter from John Jones of Indian River; referred to C. on Mechanics. Thanks ordered.

Donaldson's Dredging Machine Model was presented and referred to Rhoades, Fisher, Gilpin, Rittenhouse, Lukens, Pryor, Clifford, Jon. Smith, Hollingsworth, Duffield, Powell, R. Smith, D^{r.} Smith, Ewen and O. Biddle to examine and report.

Application to be made to Jacob, the Sexton of Christ Church, to take charge of the Key of the Society's Hall.

"Enquiry into the cause of Sleep & Dreams," by Dr. Rush, referred to the Med. Com.

"Experiments & Obs. on the Mineral Waters of Phila., Abingdon & Bristol," by Dr. Rush, referred to Com. N. H. & Chemistry.

A variety of subjects of Nat. Hist. from Geo. Gauld of W. Florida, with letter & list, delivered to the Curators. "Mr Williamson acquainted the Society that Mr Gauld had paid him two half Johannes as a present to the Society."

"A draught of Chester & Middle rivers in W. Florida," taken by Lieut. Hutchins, N. S.

"A description of the Coast of W. Florida," by $M^{r.}$ Gauld, N° . 1.

"A measurement of the height of the Blue Mountain & Catharine Hill," No. 2.

"A Shark's Jaw; a skin of the Shagreen Fish; & a Por-

cupine fish." All the above presented by M^{r.} Gauld through D^{r.} Williamson.

"A specimen of Asphaltos found in E. Florida," presented by M^{r.} Bainbridge.

"Meteorological Obs. &c. Nº 4," in a letter from Sam¹

Williams of Bradford, N. E.

"Experiments & Obs. on Evaporation &c. N° 5," both communicated by D^{r.} Williamson.—All referred to Com. on Geog., Math., N. Phil., & Astronomy.

"A specimen of Sinopian Earth, Antimony Ore, & Alum

Bark," in a letter from Rednap Howell.

[Here are inserted, out of place, "Minutes for May."]

"On the variation of the Compass," in a letter from Lord Stirling to D^{r.} Smith.—Smith, Rittenhouse & Clarkson, "to consider his Lordship's proposal."

"Chart of the Stars used in finding the Longitude by the Moon invented by himself," in a letter from Sam¹ Dunn of London; "also a print containing a view of an Electrometer contrived by W. Henly &c. with a letter on Atmospheric Electricity."

"Ordered that an advertisement be put in the Papers by D^{r.} Smith requesting such Persons as have anything to communicate to be speedy as a Volume is preparing for the press."

Sam¹ Taylor's account was ordered to be paid.

1773. July 30. (Bond; Combe, Hollingsworth, Rittenhouse, Alexander; Smith, O. Biddle.)

D^{r.} Smith had called on M^{r.} Bradford to examine & report on his account. . . "M^{r.} B. had not prepared any account and seemed to decline it at present." "The Society now desire that the same Committee viz. M^{r.} H. Drinker, Geo. Morgan & D^{r.} Smith do again call on M^{r.} Bradford and acquaint him, that untill his account is laid before the Committee & settled, they cannot give any Order to him for Money, & that it must be his own fault if there is delay in this matter."

Kinnersly, I. Bartram, Rittenhouse, Hollingsworth & O. Biddle, "to agree with the Owner of the Torpedo, on terms to make a Set of Experiments, with a view to determine the nature of the Shocks which it communicates.. not exceeding ± 3 for that privelidge; they are requested to call in to their assistance any gentlemen they think proper."

Com. on Donaldson's machine not fully prepared to report.

1773. Aug. 20. (Bond; Rob. Proud, Rich. Wells, Clarkson, Bradford, Alexander, Williamson; O. Biddle.)

"Mr. Bernard Romans attended the Society and promised to leave with the Secretaries a drawing of two Nondescript Plants, natives of Florida, one of which he has denominated the Kalmia Floridiana, & the other the Lupinus Emiticus seu L. foliisternatis, a description of which was now communicated."

"Also a paper containing an improvement on the Mariner's Compass."

"A Chart of the Navigation to, & in, the New Ceeded Countries," was exhibited by him, & Lukens, Rittenhouse, Wells, Clarkson, and T. Fisher were appointed to compare it with M^{r.} Gauld's account of the same country; also to consider their opinion of the Paper on the Compass.

"Mr. Christopher Collis attended, and applied to have" a Com. appointed "to examine a Steam Engine for raising Water, which he has erected at a Distillery in this City & to certify their opinion respecting it." Referred to Rittenhouse, Wells, Proud & Biddle.

Sees. to advertise Communications and presents, & request communicators to be speedy &c.

Dr. Williamson delivered to O. Biddle, Gauld's description of the W. Florida coast.

1773. Aug. 25. Adjourned Meeting. (Wynkoop, Jon. Smith, Wells, Dr. Smith; O. Biddle.)

Com. on the Collis Steam Engine reported that they had seen it "perform several strokes, tho' some of the materials not being sufficiently large and strong, owing to his attempting the execution at a very low expense, it did not continue its motion long; but that a Steam Engine may be brought to answer the purpose of raising Water much cheaper than by Men or Horses is a fact well known, & we are of opinion that the undertaker is well acquainted with the principles of this particular branch of Mechanics, & very capable of carrying it into execution & therefore worthy of Public encouragement."

1773. Sep. 17. (Ewing, Alexander, Bradford, Rittenhouse, Dr. Morgan, Geo. Morgan; Dr. Smith.)

The Abbé Rozier's letter was read, "mentioning a new work in which he is employed of giving a Monthly Account of the Works of the Literati in different parts of the World, and desiring the Society to appoint some one to correspond with him & to send an Abstract of the most essential Articles of their proceedings. He also sends his two first publications for January & February."—The Secs. ordered to draft an answer, saying the Society "intend publishing their works as often as they can make a small Volume," from which he can make his own extracts.

Bradford's account would be reported at the next meeting; the Com. being "of opinion that there will be due to Messrs. Bradford at least the Sum of £120, for which they have drawn on the Society in favour of M^r . Galloway, the Soc. therefore desire that the Treasurer may accept the same to be paid when he receives the £250 granted them by the House of Assembly."

1773. Oct. 15. (Bond; Ewing, Coombe, Clarkson, Bradford, Alexander, Duffield; Dr. Smith.)

Jas. Gillingham's bill for a pine Bookcase, £6 ordered paid.

Capⁿ Inglis was allowed, "for the encouragement of Navigation," to have the use of the Book of Tables of Parallax & Refraction, presented by the Univ. Cambridge, "to go his voyage to Jamaica," "upon his ordering a new Book of the same kind to be imported by the first Spring Ships to replace it. But this method of lending the Books of the Society to any but Members not to be drawn into precedent."

"On Tornadoes, Hurricanes & Waterspouts," a paper by D^{r.} Perkins of Boston; reading deferred.

"On the uses of Antiseptic Medicine," by Dr. Wright of Jamaica; also deferred.

Ordered that Doctor Peters' boy have 30 "6d.

Bradford's Accounts:—"Sales of 150 Phil. Trans. Sold in Boston 10; N. York 7; sent to Carolina 25; to T. Clifford 6; to Alexander, Thomson & Peters, 1 each; to Williamson 4; to Ph. Bond & Davidson, 1 each; to S. Taylor, imperfect, 2; Delivered Paper maker 1; on hand 24 = 84. Sold by Wm. & Thos. Bradford 66 @ 15 each, £49..10. Commissions @5 p. c. £2..9..6.—Advertising 15 = £3..4..6. Net Proceeds £46..5..6.

[On the next page a balance sheet; D^{r.} side footing up £374 $\cdot \cdot \cdot 2 \cdot \cdot \cdot 6$. C^{r.} side, By sales £112 $\cdot \cdot \cdot 10 \cdot \cdot \cdot 9$ + Cash rec^d of members £6 $\cdot \cdot \cdot 10$ + Cash of Sundry Canal subscriptions £126 + By order in favor of T. Galloway £120 + Ballance due W. & T. Bradford £13 $\cdot \cdot 1 \cdot \cdot 9 = £374 \cdot \cdot 2 \cdot \cdot 6$. From this £2 $\cdot \cdot 9 \cdot \cdot 6$ was deducted "by abatement freely allowed for the Commissions charged on the sale of 66 Transactions.]

[The next page is occupied by a List of Canal subscriptions, names and sums ranging from £6 to £2 each = £126. And another list "not collected," amounting to £45.]

1773. Nov. 5. (Bond; Coombe, Clarkson, Jon. Smith, Morgan; Dr. Smith, O. Biddle.)

"On Waterspouts & Hurricanes," a treatise by D^{r.} J. Perkins of Boston, & "On Antiseptic Medicines," by D^{r.} W.

Wright of Orange Hill, Trelawny in Jamaica, which Dr. Morgan returned.

"Owen Biddle brought and left with the Society the first Volume of the Minutes of one branch of this Society before the Union, which then subsisted under the Name of "a Society meeting weekly in the City of Philadelphia for their mutual improvement in useful Knowledge," and includes a Journal of their proceedings from 22^d Septem^r 1758 to Octob^r 22^d 1762."

1773. Nov. 18. (T. Bond, Jun^{r.} Chairman; Smith, Morgan, Bradford, Alexander, Rush.)

"An enquiry into the Cause with an acc^t of the Efficacy of Liquid Laudanum in the Disorder bro't on drinking cold Water;" paper by D^{r.} Rush.

Smith & Rush to ask Thomson if he meant to deliver the Oration.

1773. Dec. 17. (Dr. Bond, T. Bond, Smith, Wells, Bradford, Rush.)

"A plan of a Snow Plough," was communicated by M. Rich. Wells.

"A case of an extraordinary mortification of the Uterus. Also a Description of an imperfect Fœtus," from Jon. Elmes, M.D., of Cohansie.

C. Thomson having declined, Dr. Rush undertook to prepare an Oration.

1774. Jan'y 5. (Wells, Jones, Duffield, judges; T. Bond, & Rush, clerks.)

ELECTION OF OFFICERS.

President, Benjamin Franklin, F.R.S. &c.

V. Ps. Galloway, Rhoads [sic], Bond.

Secs. Dr. Smith, Wells, Jones, Rush.

Curs. Duffield, Rittenhouse, Bond, Jun^{r.}

Treas. Coombe.

"After the Election . . Dr. Smith delivered to the So-

ciety the following letters, Copies & Translations of which were ordered to be inserted in the minutes of the Society."

RICHMOND, Dec. 7th, 1773.

SIRS, I had the Honour to deliver to the Academies of Turin & Bologna in Italy & to the Grand Duke of Tuscany the first Volume of the Transactions of the American Philosophical Society, which Doct Franklin gave me for that purpose in London. Inclosed you will find the Answers from Bologna & Florence, and the Copy of that from Turin, as the original of it is in one of the 4 Volumes I had from that Academy for the American Society. The said 4 Volumes I shall take the first opportunity to forward to you, as soon as you will please to let me know by what Channel I am to send them. I have likewise 3 pamphlets written by Mr. Fontana, who has written many more, and every one containing some Discoveries, but he could not find the Others at that Time, and has promised to send them by the first opportunity. I shall reside in Virginia, & as I have engaged to forward to you whatever may be hereafter committed to my Care from that part of the World, So I shall esteem it a particular honour at all Times to be employd by the American Philosophical Society in the like service, I am with profound Respect

Sirs, Your most obedient

& most humble Servant

PHILIP MAZZEI.

[The next page occupied by a "Copy of the Answer of the R. S. of Turin to the A. P. S." and its translation.]

[The next two pages occupied by a letter "to the Illustrious &c. Members of the philosophical Society," signed Sebastiano Canterzani, Secy. Acad. Sc. Bologna, dated 18th Augt. 1773; and its translation.]

[The next two pages occupied by a letter "to the most honorable W^m Smith & Robert Strettle Jones Secs. of the Philosophical Society, Felix Fontana, sends greeting," dated Florentiæ Idibus Junii.]

1774. Jan. 21. (Bond, Rhoads; Coombe, Rev^d T. Coombe, D^r Smith, Peters, Redman, Morgan, Harris, Clifford, Wells, Fisher, Rittenhouse, Hillegas, Miles, Bradford, Duffield, Jones, Holingsworth [sic], M. Bartram, T. Bond, Jr., Rush.)

Election of 17 new members:—Earl Stanhope, Lord Mahon, Dr. And. Duncan of Edinbro'; S. Moore of London;

George Gauld & Bernard Roman* of Pensacola; Bryan Edwards, John Ellis & D^{r.} W^{m.} Wright, of Jamaica; D^{r.} Walter Jones & D^{r.} James McClurg of Virginia; D^{r.} Jonathan Elmer & D^{r.} W^{m.} Bryan of N. Jersey; John Jones of Maryland; D^{r.} John Perkins of Boston; Sharp Delany, James Bringhurst, Ben. Morgan, & D^{r.} Thos. Parke, of Philadelphia.

"An account of a Lunar Eclipse; Met. Obs.; & a hurricane in N. England," in a letter from S. Williams of Bradford in N. E.

"Dissertation of an amphibious animal discovered in that County," in a letter from D^{r.} J. Archer of Baltimore Co. Md. Also a stuffed skin of that animal.

1774. Feb'y 4. "Present all the Officers and a considerable number of the members of the Society, together with some strangers. Dr. Rush delivered an Oration entitled 'An enquiry into the natural history of medicine among the Indians in North America, with a comparative view of their diseases & remedies with those of civilized nations.'" [Follows a note in lead-pencil, "See end of the 'American Society,' book Vol. I. for Min. of members of 18. Feb. & 4. March 1774." This minute is as follows:—]

"The Acts of the British parliament for shutting up the port of Boston, for altering the charters, and for the more impartial administration of justice, in the province of Massachusetts bay, together with the Bill for establing [sic] popery and arbitrary power in Quebec, having alarmed the whole of the American colonies, the members of the philosophical Society partaking with their countrymen in the distress and labors [sic] brought upon their country were obliged to discontinue their meetings for some months untill a mode of opposition to the said acts of parliament was established, which they hope will restore the former Harmony, and maintain a perpetual Union between Great Britain & the American colonies."

^{*} Spelled Romaine in the minutes of January 20, 1775, and Romans on those of February 18, 1774.

1774. Dec. 17. (Bond, "president;" Dr. Smith, Jones, Rev^d Mr. Coombe, Biddle, Duffield, Simitere [sic], Bradford, Rush.)

Morgan, Simitere, Rush, "to bring in a draught of a certificate to be sent to members upon their election into the Society."—Bradford & Simitere "to apply to proper person to engrave the said certificate."

The Secretaries to draught a letter of thanks "to those Gentlemen from whom they have received presents of any kind."

D^{r.} Smith to request Rittenhouse to deliver the Anniversary Oration for the ensuing year.

"On Longitude," a paper from Mr. Laurie of N. Y.

Books sent with a letter from Franklin:—(1.) The Compt of Buffon's Nat. Hist. of birds, with coloured plates from the author, 4 Vols. Fo.—(2.) Trans. R. S. London, 3 Vols.— (3.) Novi Com. S. R. S. Gotingensis, 3 Vols.—(4.) Obs. sur la physique &c. Abbé Rozier, 2 Vols.—(5.) Nouv. Mem. A. R. S. 1770, Berlin.—(6.) Ast. Obs. Greenwich, 1765 to 1769, Maskelyne, Fo. - (7.) Dunn's new Atlas of the Mundane System, Fo. (8.) Opusc. phys. et chem. 8° from Lavoisier, with a letter from the author.—(9.) Von Stæhlin's Account of the Northern Archipelago lately discovered, 8° from Franklin.—(10.) Wm. Hewson's Exp. enq. into the Lymphatic system, 8° from his widow.—(11.) J. Walsh's letter to Franklin "of the electric property of the Torpedo," pamp. 4°-(12.) Sir J. Pringle's discourse on the different kinds of air, pamp. 40 from the author.—(13.) Precis des recherches en France depuis l'année 1730 pour la determ. des longitudes &c., pamp. 4° from Le Roy the author.—(14.) "Some add. Obs. on preserving Seeds from foreign parts for the benefit of American colonies &c. by J. Ellis .-- (15.) Bayley's advancement of the Arts.

"A COUNSEL [sic] of twelve persons every year," was proposed by M^{r.} Biddle, "whose business it should be to superintend the publication of the transactions of the Society,

and from whom the other Officers of the Society should

be yearly chosen."

"Also that a LIBRARIAN be appointed to take charge of the books belonging to the Society, with power to lend them to the members under the same regulations as those of the city library."

1774. Dec. 23. "Society's Hall." (Bond, president; Dr. Smith, Biddle, Morgan, Wells, Jones, Simitere, Duffield, T. Bond, Jr., Rush.)

Dr. Rittenhouse will deliver the Oration in a month.

Mr. Biddle's proposal "was put off for a larger meeting."

1774. Dec. 30. (Dr. Bond; Rhoads, Duffield, Delany, Mr. Bond, Allison [sic], Wells, Fooks, Bradford, Rush.)

The draught of certificate of membership was read several times, altered & adopted:—

"To all unto whom these presents shall come, greeting—The American Philosophical Society, held at Philadelphia, for promoting useful Knowledge, desirous of conferring upon a proper mark of their esteem and of attaching him to the Society have elected the said a member of the same, granting unto him the rights of fellowship with all the liberties and previledges belonging thereunto. In Testimony of which (by order of the Society) we have subscribed our names & caused the seal of the Society to be affixed, this day of in the year of our Lord .—

To be signed by one Vice President and one Secretary."

The following form of a letter of thanks was approved:—

"The American Philosophical Society, held at Philadelphia, for promoting useful Knowledge, have received by the hands of your acceptable present of for which they have desired their grateful acknowledgment to be transmitted to you by Sir your most humble servant.—To be signed by one Secretary."

Bradford & Simitiere "were desired to procure engraved copies of the certificate on parchment & of the letter of thanks on paper as soon as possible."

Franklin's letter to the Society containing queries from l'Abbe Revnall of Paris.

[See for this another place, under the same date.] It occupies pp. 168, 169, 170, 171.

[See end of the "American Society" book for Minutes of

meeting of Jan. 6, 1775.]

[Page 172 is occupied by "An Account of such printed Books, Drawings &c. as have been presented to the Society," 19 in number, beginning with No. 1, Nov. 5, 1770;—No. 2, 17 April, 1772;—Nos. 3, 4, 5, 6, June 19, 1772;—Nos. 7 to 19, May 1, 1772.]

[Page 173. Originally left blank, has lead-pencil notes in a modern hand. "Omissions. Minutes of the United Society from 18. Feby, 1774; 6 Jan. 1775 for choice of officers; 5 Jan. 1776, Do.; together with Minutes for March 1779; to Dec. 1779 Inclusive will be found on the End of the Early Minutes 1758 to 1761 of the Junto. Also some proceedings 1775 in a separate Book with list of Members Elected 1771, 2."]

[Pages 174 and 175 occupied crosswise with six-ruled columns of autograph signatures of the members of the six Committees. A seventh column is to be found on p. 176.]

(END OF VOLUME.)

1774.

[Begins a Volume of MS. Minutes.]

"Minutes of the American Philosophical Society omitted in the year 1774—viz"

1774. February 18. (10 present.)

Owen Biddle read Bernard Romans' letter with a figure of a new species of Floridan Kalmia, & a figure & description of the Semen Badiananisam Stellatum, or Illicium Floridianum.

"Rich. Wells communicated a paper offering some Hints for raising water in wells without the help of pumps or other machines"... referred.

The Officers, together with T. Coombe Jr., Dr. Morgan, Dr. Parks, Dr. Kuhn, Owen Biddle and Charles Thomson, were appointed "a committee to consider and prepare the papers and Transactions of the Society in order for publishing," and report.

Smith, Morgan, Drinker, appointed a Committee to audit the Treasurer's accounts, & prepare a list of outstanding

subscriptions.

Curators "desired to collect the Books and other Valuables belonging to the Society and place them in the Cabinet."

1774. March 4. (6 present.)

Auditing Com. reported inability "to attend to the affairs of the Society this month, but will comply with their request as soon as possible."

M^{r.} Bradford will print the Vol. of Trans. on the following terms:—"He will furnish the Society with 12 or 15 copies for the foreign Academies, and each member with a volume on which he will charge nothing but his labor and the materials."

1774. Dec. 17. (9 members: D^{r.} T. Bond, president; D^{r.} Smith, M^{r.} Jones, Rev^d M^{r.} Coombe, M^{r.} Biddle, D^{r.} Duffield, M^{r.} Simitiere, M^{r.} Bradford, & D^{r.} Rush.)

Morgan, Simitiere, Rush, made a Committee to draft a Certificate of membership.

Bradford & Simitiere to employ an engraver.

The Secretaries to "bring in a draught of a Letter of thanks to those Gentlemen from whom they have received presents of any kind."

"Ordered that the Rev^d D^{r.} Smith request M^{r.} David Rittenhouse to deliver the Anniversary Oration for the ensuing year."

D^{r.} Rush communicated a paper on Longitude from M^{r.} Lawrie of New York.

Also a letter from Franklin [in Paris?] with: Buffon's

N. H. of Birds, 4 Vols. F., from the author; Trans. R. S., London, 3 Vols.; Novi Com. S. S. Göttingensis, 3 Vols., 4°; Abbe Rozier's Observations sur la Physique, 2 Vols., author; Nouv. Mem. de l'Acad. R. d. S. et B. L., 1770, Berlin; Rev^d Nevil Maskelyne's Astron. Obs. at Greenwich, 1765 to '69, F., author; Sam. Dunn's Atlas of the Mundane System, 1 Vol., F., author; Lavoisier's Opuscules Physiques, 8°, with a letter from the author; Ivon Stählin's Account of the Northern Archipelago, Kamschatka, &c., from Franklin; W. Hewson's Exp. Eng. Lymphatic System, from his widow; John Walsh's pamphlet letter to Franklin on the Torpedo; Sir John Pringle's pamp. on Airs; Le Roy's Recherches... Longitudes, author; D^r Geo. Young's Garden at St. Vincent's described by J. Ellis; Bayley's Advancement of the Arts.

Council.—" M^r · Biddle proposed to the Society the appointment of a Council of 12 persons every year, whose business it should be to superintend the publication of the Transactions of the Society, from whom the other Officers of the Society should be yearly chosen."

"Also, that a Librarian be appointed to take charge of the Books belonging to the Soc'y with power to lend them to the members under the same regulations as those of the City Library."

1774. Dec. 23. "Society's Hall." (10 present; Bond presiding.)

D^{r.} Smith said that Rittenhouse consented to deliver the Oration in a month.

Mr. Biddle's proposals postponed to a larger meeting.

1774. Dec. 30. "Society's Hall." (10 present; Bond presiding.)

Certificate of membership read, debated, corrected and adopted. [The form then follows in the minutes, and differs from the form now in use, thus:]

To all, &c. The American Philosophical Society, &c.,

"desirous of conferring upon — a proper mark of their esteem and of attaching him to the Society, have — elected the said — a Member of the same, granting unto him the rights of fellowship, with all the liberties and privileges belonging thereunto. In testimony," &c.

Letter of thanks unanimously approved. [Form follows in the minutes:]

Bradford and Simitiere desired to procure engraved copies of the Certificate on Parchment, and of the Letter on paper, as soon as possible.

Franklin's letter, containing queries from l'Abbé Raynall respecting the population, commerce and wealth of the American Colonies, which were considered, and the Society "agreed that they were not proper objects of the Society's enquiries;" Secretaries directed to send to Franklin said resolution.

Franklin's letter, with queries from the Marquis de Condorcet; translation in the minutes: "To Dr. Benja Franklin, You have here dear & illustrious brother, some questions which I take the liberty to propose to the Philosophical Society of Phila. and an answer to which I beg the favour of you to procure me:-1. Do the calcareous stones of the silex contain marine productions belong to known species found in the neighborhood of Philadelphia what elevation on the mountains depth . . are any fossil bones to be found . . . 2. Any observations on the magnetic needle oscillations duration of the oscillation should be between 11 and 2 centuries 3. Height of mercury in the Barometer any singularity 4. Any free negroes who have not mixed with whites have their black children 'retained the genius and character of the negroes' . . If men of genius and parts have been observed among them... 5. Any Basalts & pumice in the mountains... any coals ... above or below banks of shells".... [The whole letter is curiously suggestive of the state and animus of French science in 1774.]

Franklin sent also a memoir of M. Daubenton (sent to him through M. Le Roy) at Buffon's request (with colored plates), "On the method of preserving birds," &c., with a request for "some natural productions of Pennsylvania" for the King's cabinet. [The note is translated in the minutes, dated July 20, 1773.] Smith, Lukens, Rittenhouse and Owen Biddle were appointed to answer Condorcet's questions as to Meteorology; Dr. Thos. Bond, Wells, Simitiere and Rush, those of Natural History.

D^{r.} Thos. Bond, Jun., M^{r.} Fooks and M^{r.} Delany were made a Com. "to look into the affairs of the Society."

1775. January 6. (No. list.)

ELECTION OF OFFICERS.

President-Ben. Franklin.

V. Ps.—Josh. Galloway, Sam. Rhoads, Dr. T. Bond.

Secs.—Dr. W. Smith, Rt. S. Jones, Dr. B. Rush, Rd. Wells.

Curators—Rittenhouse, T. Bond, Jr., Duffield.

Treas.—Thos. Coombe.

1775. Jan. 20. (11 present.)

Drawing of Ilicium floridianum, by Bernard Romaine presented.

"A sufficient number of members to ballot for Candidates for a fellowship in the Society not being present the Society adjourned to Jan'y 28th."

1775. Jan. 28. (19 present; Bond presiding; Smith, Clifford, Rittenhouse, T. Coombe, Rev^d T. Coombe, Owen

Biddle, Clement Biddle, Roberts, Morris, Wells, Holingsworth [sic], Bringhurst, Paschall, Bartram, Lukens, Simitere, Park, Rush.)

Election of — New Members.—Condorcet, Daubenton, Dubourg, Le Roux, Macquair,* Raynal,* Lavoisier, Rosier,* all of Paris; D^{r.} Adams of Barbadoes; Capt. Holland and Rev^d D^{r.} T. Gibbons of London; D^r Fortunatus de Warris and D^{r.} Ben. Mosely of Jamaica.

David Rittenhouse appointed Librarian.

Meyer's new method of mapping Russia presented by Peter Miller.

M^{rs.} Hunt's account, 40 sh. for services in the Hall of the Society, ordered paid.

[On the opposite page is pasted a paper on which is written:—

"gentlemen as I have had the Care of the hall allmost tow year I shall esteem it as a faver if yool give me an order to be pade I have had a long fit of illness and mony will be very exseptabel to your friend friday night Jany 27 1775

ISBELLA HUNT"

[1775.] Feb'y [] " in the College."

Rittenhouse delivered his "Oration on Astronomy, to a crowded audience, consisting of his Honor the Governor of the Province, the Assembly, and a great number of gentlemen of the first distinction, besides the members of the Society."

[1775.] May 30. (8 present.)

Dr. Smith agreed to bring in a copy of a letter of admission of members chosen into the Society; also, letters of thanks to Buffon and Condorcet for presents.

Mr. Simitière agreed to answer Condorcet's 1st and 5th set

^{*}The orthography of these names differs from that of the 1830 catalogue of members which followed the spelling of the earlier ones. On the next page but one is pasted a scrap of paper, upon which appears in an old handwriting, the same list of names, with that of *Reynal* spelled *Renould*.

of questions; Rittenhouse the 2^d and 3^d ; and Ludlam's letter to the Society [not mentioned in the minutes before]; $D^{r.}$ Bond the 4^{th} ; $D^{r.}$ Rush to write to the Abbé Raynall.

- "Continuation of the Minutes of the American Philosophical Society, held at Philadelphia, for promoting useful Knowledge."
- "N. B.—The former part of the Minutes from the Institution of the Society; commencing Jan'y 2^d, 1769; and ending Dec. 30th, 1774; are contained in a Marble covered Book, containing 176 pages.
- "Since the Beginning of the Year 1775, the Meetings of the Society were much interrupted, and for a great Part of the Time wholly discontinued; so that the following are all the Minutes that have been preserved; viz:"

1775. Jan'y 6. [Minutes as above, here repeated.]

1775. March 3. (13 present; T. Coombe, Sen^{r,} and M^{r.} Du Simitière among them.)

"Agreed with M^r Bradford to proceed immediately to print the Second volume of the *Transactions* on the following terms:

"At least 500 copies to be printed;

"He is to make an Estimate of the work when finished at the same rate as if he had printed it at the Expence of the Society, and on averaging the whole according to the number of Copies, to deliver to the Members their Copies at the average price, and also a present of 25 Copies to be sent to foreign societies and members of Distinction, and to sell the remainder at a moderate shop profit, to refund the residue of the costs of printing."

Dr. Smith brought in a proposed petition to the Assembly for erecting a *Public Observatory*, which was agreed to. [Blank space evidently intended for engrossing the petition.]

Dr. Smith was desired to prepare a similar petition to the Governor.

1775. March 19. (4 present: Bond, Alexander, Rhoads, Gilpin.)

Arthur Donaldson's machine (in construction) for cleansing the docks was described by M^{r.} Rhoads. Bond, Rhoads, Hollinsworth, Gilpin and Fisher appointed to examine and report.

Committee to confer with paper manufacturers, reported (through M^{r.} Bell) "a plan for encouraging the undertaking," which was ordered to be published in the newspapers.

R. Howell's letter (from Virginia) about a moss used in dyeing purple, and a new silk reel, was communicated by R. S. Jones, and referred to Committee on Husbandry and American Improvements. Enclosed specimens referred to M^{r.} Alexander for examination.

Rev^d Jas. Manning, "Pre'g U. C.," returned thanks for a Vol. Trans. American Philosophical Society, "presented to the Institution."

Plain bookcase for the use of the Society ordered through $M^{r.}$ Gilpin.

Specimens of Marle [sic] from near Wilmington and Alum from the Monongahela, presented by M^{r} . Gilpin.

1775. May 30. [Minutes already given repeated here.]

1775. September 15. (16 present: Franklin presided; Ed. Physic, Fisher and B. Winesop among them.)

Gilpin's letter about the Annual passage of Herrings, "with a map explanatory of their Voyage." Referred to Committee on Natural History.

Franklin delivered the following books presented by their authors:—The Abbé Decquemare's Essay on Sea Anemones, with a letter to the American Philosophical Society; Prin-

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gle on the Torpedo; Dennis' Astronomy; Rozier's Obs. sur le physic [sic] naturale, Vols. III, IV (2 copies);—thanks returned.

Sir J. Pringle's letter to Franklin "containing an abstract of Capt. Cooke's [sic] last Voyage, not yet published in England."

D^{r.} Morgan communicated a paper entitled "The whole process of the Silk Worm from the Egg to the Cocoon, by Messrs. Hall and Skinner.

Phin. Pemberton's Meteorological Register for January and February, 1775, and Thos. Aldwin's MS. Journal of Winds on the Island of Anticosta from September, 1766 to June, 1767, communicated by Mr. Bond.

"An order was drawn on the Treasurer in favor of D^{r_i} Bond, 18 "3 postage a letter from L'abbe Decquemare."

1775. Dec. 15. (9 present.)

Prof. Meyer (of Heidelberg)'s letter, with two maps, and two treatises, presented:—1. Observatio occultationis Saturni, &c.; 2. Directio meridiani palatini per speculum, &c. Thanks ordered "to that Gentleman for his ingenious performances and request" for "the continuation of his valuable correspondence"... "the Society will esteem themselves happy in communicating any thing in their power to assist him in the Prosecution of his Philosophical Researches."

Rittenhouse's Oration: 150 copies ordered, one to each Member of Congress and Assembly.

1776, Jan'y 5. Election of Officers.

President-" Doctor Franklin."

V. Ps.—Dr. Bond, Senr., Samuel Rhoads, Esq., Dr. Smith. Secs.—R. Strettel Jones, Dr. B. Rush, Wells, Bond.

Curators-Rittenhouse, Duffield, Simitiere.

Treas.—Thomas Coombe, Esq.

[Many blank pages follow.]

[1779. Jan'y 16.]

"We the subscribers, members of the American Philosophical Society, request the Vice Presidents to postpone the meeting advertized of the said Society to some future day, for weighty reasons.

PHILADELPHIA January 16th, 1779."

Jos. REED,

Matth. Clarkson, John Ewing.

David Rittenhouse,

Gerard Clarkson,

Fras. Hopkinson,

Lewis Nicola,

Jno. B. Smith,

Moses Bartram,

Chas. Thomson

Owen Biddle,

Thos. Bradford.

Sharp Delany.

After a blank page follows, on a sheet of paper pasted in: "The Calamities of War and the Invasion of this City by the Enemy having interrupted the Proceedings of The American Philosophical Society for promoting useful Knowledge,—the members are requested to meet at

on the of at o'clock in the evening; to take into Consideration the present State of the Society, with such Matters as may be necessary to promote the Design of their Institution.

"We the subscribers do desire that the above Advertisement be printed in the News Papers of this City.

"PHILADELPHIA, February 1779

Owen Biddle,
David Rittenhouse,
Jno. B. Smith,
Lewis Nicola,
Gerard Clarkson,
Sharp Delany,

Samuel Fooks, John Ewing, William White, John Ewing,

John Ewing, Thos. Hopkinson, John Morris, Jr., Jos. Reed, Th. Bond, W^{m.} Smith. Benjⁿ Rush, Tho. Smith,
Samuel Duffield, Cha. Thomson,
Sam. G. Cadwelader [sic], Tho. Mifflin,
John Benezet, Thos. Bradford,
Matth. Clarkson, Jonⁿ. Potts,
Fra. Alison.

1779. March 5. (9 present.)

"The following members met at the College agreeable to a notification in the public papers" Bond (Chairman), Smith, White, Nicola, Duffield, O. Biddle, Du Simitiere, Bradford and Clarkson ("Sec'y for the evening").

"It was unanimously agreed that, that the Meetings &

Business of the Society be revived."

"Agreed, n. c. d. that an election of Officers be held on Friday the 19th Inst. at the College, between 2 & 5 P. M."

"That no person be permitted to vote, before he has paid the arrears due to the Society for the three last years, and that D^r. Duffield receive the same."

"Colonel Nicola and M^{r.} Du Simitiere are desired to call upon Samuel Taylor, bookbinder, and receive from him such volumes of the Transactions as he has in his Possession, and deposit them with the other effects of the Society."

1779. March 19.

Election of Officers for the remainder of the year.

President—Benjamin Franklin, Esq., LL.D., &c., &c. V. Presidents—Dr. Thomas Bond,

David Rittenhouse, Esq., Dr. William Shippen.

Secretaries—Rev^d D^{r.} W^{m.} Smith,

Rev^d D^{r.} John Ewing,

Rev^d M^{r.} W^{m.} White [sic],

Owen Biddle, Esq^{r.}

Curators—Col. Lewis Nicola,

Dr. Samuel Duffield,

Mr. Pierre Du Simitiere.

Treasurer—Matthew Clarkson, Esqr.

"Agreed, That the Vice Presidents wait on his Excellency the President of this State, and request of him in behalf of the Society to favor their meetings with his presence, as often as he conveniently can, as their Patron."

"Agreed, That the Rev^d Doctor Ewing be requested to prepare & deliver an anniversary oration for this year"

1779. April 2. (7 present; both Bonds.)

The answer of the President of the State to the Vice-Presidents was received and ordered to be published "together with a copy of their address to him in behalf of the Society.

"Agreed, That the Treasurer collect 30 shillings from every member when he first comes to take his seat and give a voice in the business of the Society, and that in the notice of the next meeting it be particularly desired that all the members who can conveniently be present will be punctual in their attendance, as it is proposed to chuse [sic] several new members.

"Samuel Adams Esqr., one of the Delegates in Congress, having informed the Society that there is a book for them in the hands of a gentleman in Boston, the Secretaries are directed to write a Letter to him to put it into the hands of Doctor Thomas Bond Junr. who engages to send for the book."

1779. April 16.

"His Excellency, Joseph Reed Esq^{r.} Patron of the Society;" Bond, Rittenhouse, Smith, White, O. Biddle, Ewing, Du Simitiere, Duffield, Clarkson, Alison, Charles Thompson [sic*], Nicola, Morris, Jones, Hopkinson, Rush, Fooks,

^{*} Autograph Thomson, see above.

B. Bond, Jun^{r.} Isaac Bartram, Moses Bartram, and Bradford.

Dr. Ewing sensible of the honor would "prepare an oration as soon as his convenience will allow."

Secretaries requested to get, through "some of the Delegates from the State of Virginia," the four Vols. Trans. sent by the R. Acad. at Turin to the American Philosophical Society, per M^{r.} Mozzei [sic], "now at Richmond in Virginia."

Election of three new Members, "whose names had been postponed at two previous meetings:"—The Honorable Mons^{r.} Gerard, Minister Plen. of his most Christian Majesty; Doct^{r.} James Hutcheson [sic]; Rev^d George Duffield.

"The Patrons and vice presidents are desired to notify to his Excellency Monsieur Gerard his Election into this Society, and to request that he will be pleased to countenance and assist them in carrying on the laudable purposes of their Institution."

"The Secretaries are desired to prepare a proper Certificate to be delivered to his Excellency, agreeable to the rules of the Society."*

1779. May 7. ("Society Hall;" 15 present.)

Lukens, Rittenhouse, Biddle, appointed a Committee "to have the observatory repaired and the *Instruments* lodged in the same."

This committee was also "requested to wait on the Honble the Speaker of the House of Assembly to represent to him that they are willing to comply with his note respecting the *Telescope*, but are of opinion that it is not proper to lend it to Individuals, as it would be injurious to the Instrument, and interfere with those views of the Society for which they obtained the use of it from a former Assembly."

^{• &}quot;Of a meeting held April 21, 1779, there are no minutes. But in a list of members it appears that on that day was Elected His Excellency the Sieur Conrad Alexander Gerard, Secretary of the Council of State of his Most Christian Majesty and his Minister Plenipotentiary to the United States of North America, &c. &c." [This on a fly pasted in opposite May 7, 1779.]

"A Calculation of an Eclipse of the Sun, June 24th. 1778, with a translation of Baron Wolfius's principles of Spherical Trigonometry by Mr. Daniel Frihauf, of Northampton," was presented.

"An order was drawn on the Treasurer to pay $M^{r.}$ Aitkin twenty dollars for binding a Volume of the transactions of the Society to be presented to his Excellency $M^{r.}$ Gerard."

Another order for sixteen dollars in favor of M^r. Hilary Baker who wrote His Excellency's Certificate of election.

Secretaries directed to report "the state of papers formerly selected for publications," and others since presented; and to proceed in their business of preparing letters in answer to foreign correspondents.

1779. May 21. "Society Hall." ("His Excellency Joseph Reed, Esq., Patron," and 14 other members.)

Reed reported the presentation to Gerard, who "desired the Committee to assure the Society of his sense of the honor & of his intention to forward the views of the Society in America & in France."

Dr. Bond read an essay "On the means of preserving health and preventing diseases."

Col. Nicola read an essay "To account for the Deluge, from the Suspension of the diurnal rotation of the earth."

"Both gentlemen very obligingly complied with the Society's request to leave their pieces among the papers."

Unreporting committees continued.

1779. July 23. (5 present.)

"M^{r.} Churchman gave in a memorial relative to a map of the peninsula between Delaware & Chesapeake bays including thirteen counties," asking its examination and recommendation to the public.—Rittenhouse, Lukens, Ewing, O. Biddle, and D^{r.} Smith, examining committee. "An astronomical paper," from Meyer, Astronomer to the Elector Palatine, was referred to Rittenhouse.

An order to pay Hilary Baker \$30, signed by the V. P.

1779. Aug. 20. (16 present; Dr. Bond presiding as usual; Gerard present.)

Jno. Churchman was "called in" to hear the report on his map: "As the Society have appointed us a committee... we are of opinion that he is possessed of sufficient materials, both astronomical observations and actual surveys, to enable him to construct an accurate map, and have no doubt but that he has executed his design with exactness & care, but we can not help expressing our desires of seeing the map laid down upon a much larger scale, which would render it more serviceable for promoting the Knowledge of Geography."

Rittenhouse read his reply to M^{r.} Christian Meyers [sic]. Gerard was requested & agreed to forward it on his return

to France with a Vol. of Trans. A. P. S.

A letter to Buffon, "acknowledging the favor of his publications," was ordered, to be delivered likewise by Gerard.

Rittenhouse read his "Solution by Experiment of certain optical Illusions." "Left among the papers of the Society."

1779. Dec. 10. (7 present.)

The letter to Buffon was read by Dr. Smith:

"PHILADA. Sep. 15, 1779.

[&]quot;ILLUSTRIOUS SIR

[&]quot;The return of his Excellency the Sieur Gerard to Paris, furnishes the American Philosophical Society, with a favorable opportunity of acknowledging a debt which they have long owed to you; That duty, by order of the Society, hath devolved upon me, and would have been discharged more seasonably, if the calamities of war, whereof America is now the scene, had not interrupted the ordinary channels of communication.

[&]quot;The Society want Language to express their grateful sense of the

Honor you have done them by the superb present of the two first volumes of your work entitled "Histoire Naturelle des Oiseaux," containing colored plates of the Birds, and their natural histories, elegantly bound; to which by your Generosity has since been added two volumes more of plates only; This work will do honor to your name, and to the Republic of Letters, as long as the study of Nature's works or the adoration of Nature's God, shall continue to be cultivated among mankind.

"The Society have to lament, that since the receipt of your books, our Situation hath been such, that the chief attention of those among our members, who might have contributed something towards the important work, in which you are engaged, hath been necessarily called towards the Assistance of their country in the great Struggle which she now sustains. But it is hoped the time is fast approaching (and that your valuable life may be prolonged to that time) when the re-establishment of general peace, shall leave the friends and Devotees of Science, on both sides of the Atlantic, at full liberty to unite their efforts for the advancement of wisdom, virtue and humanity, unconfined to Sect or nation.

"If it should appear, that the services of the Society in America can be rendered of any use toward the completion of your design, either respecting the animal or fossill [sic] kingdoms, the Sieur Gerard, who has done us the Honor of permitting his name to be enrolled among our members, or our learned and truly respectable president, Doctor Franklin, while he continues at Paris, will furnish you with opportunities of conveying to us your commands. Herewith you will receive another copy of the first volume of our Transactions, lest the former copy may not have come to hand. We are about preparing a second volume for the press, which shall be transmitted to you when published. I have the Honor to be with the most perfect respect,

"Illustrious Sir,

"Your most obed't & most hole Serv't
"WILLIAM SMITH,
"Secret'y Amer'n Philon'! Society.

"Mons' Buffon."

"An essay on Inoculation," by Dr. Bond, read, and a copy for publication requested.

1779. Dec. 17. (10 present.)

Letters from Rev^d W^m. Maddison [sic], President of William and Mary's College, in Virginia, containing "a series of *Meteorological Observations* by his Excellency Governor Jefferson and himself separately, for an year and a half; like-

wise a set of Experiments on what are called the "sweet springs."—Thanks, and a request for continuance of correspondence.

Dr. Bond proposed: "That each member before taking his seat . . . or voting . . . shall pay £15."

A plan for incorporating the Society to be prepared by Smith, Duffield and Biddle.

[No minutes exist (either rough or written out) of any subsequent meeting until]

1780. Feb'y 17. (Rittenhouse and 9 others present.)

When "the Society finding it necessary to have a regular place of meeting, it was moved and seconded that a Committee be appointed to enquire where a proper lot could be obtained for building a Hall for the Society, or whether any house or lot already appropriated for public purposes, similar to those of this Society could be obtained; D^{r.} Bond, M^{r.} Wilson & D^{r.} Smith were appointed a committee to make the necessary enquiries on this subject & to report as soon as they can."

Dr. Ewing having objected his occupations, Timothy Matlack was appointed to make the annual oration in which thanks should be paid to the Legislature if the pending bill for incorporating the Society were granted.

1780. Feb'y 25. (Rittenhouse and 9 others present.)

The Bill of incorporation was read; and a blank left for real estate, was on motion filled with these words: "ten thousand bushels of wheat * annum or value thereof."

A Committee was also appointed to deal with members of the Assembly to endeavor to have leave out certain words from a proviso added by the Assembly, requiring sundry officers of the Society to be persons resident in this Commonwealth, capable "of holding civil offices within the same," as too great a restraint on the election of officers.*

1780.

1780. March 3. (Dr. Bond and 11 others present.)

The Committee of search were directed to enquiring respecting $M^{r.}$ Logan's testamentary disposition of his library; while they were enquiring for a site for a Hall.

A Committee was appointed to urge the substitution of a definite clause for the obnoxious one respecting the election of President, V. President, Secretary, Curator, Treasurer or Member of Council, viz., the words "who is not capable of electing & being elected to civil offices within the State in which he shall reside."

1780. March 7. (7 present.)

The two Committees reported progress only, but nothing definitely accomplished.

1780. April 7.

The place of meeting seems to have been in the University.

The Act of incorporation had been passed, but no notes of the date of the vote are found in the minutes, which state that this is the first meeting subsequent thereto.

A motion for a Law was proposed by the Curator, Col. Lewis Nicola, and laid on the table for future discussion.

A paper on English accent, &c., by Monsieur Corse was read.

The Committee on Room was directed to apply for the use of the Library room in Carpenters' Hall.

Col. Nicola was directed to add blank sheets in one of the

^{*} Evidently pointing directly to the case of such a President as Jefferson.

Vols. of the Transactions to receive the members' signatures in compliance with the new laws.

A Committee was desired to ask the Silk Society to have its stock appropriated for the use of the Philosophical Society.

Another Committee was appointed "to form a plan for encreasing the stock of this Society, and to arrange the economy thereof."

The Curators were directed to call upon D^r. Ewing for the seal and to deposit it in the Cabinet.

1780. April 11. (3 present.)

Col. Nicola's two resolutions were read and passed, respecting fees and signatures.

Mr. Coombe was invited to attend the next meeting.

A treasurer was nominated and his duties defined.

The Silk Factory fund was placed under the care of D^r. Smith and M^r. Biddle.

Donations were ordered to be solicited for the purpose of building.

It was proposed to build in company with the City Library. It was proposed to join with the Library in purchasing Carpenters' Hall,—Widow Steel's lot,—D^{r.} Franklin's lot in Arch street,—State House yard,—Hamilton's lot in Third street.

It was proposed to sell the Observatory and build a new one.

It was ordered to meet for the present in Carpenters' Hall.

1780. May 19. (10 present.)

The Curators' prepared copy of a Vol. of Trans. with blank leaves was exhibited; and it was ordered to engross the Fundamental Laws, and Act of Incorporation, and thereafter a preamble of members' obligation.

Ten shillings in specie was fixed as the members' fee. "Specie agreeable to the laws, or the value thereof as specie may sell at the time of subscribing."

A committee was appointed to call on the members;—to pay Styner & Cist's printing bill for the anniversary oration;—and to send copies to subscribing members.

1780. June 16. (Bond and 13 present.)

(President Reed and the Chevalier de la Luzerne also present.)

Mr. Matlack read a paper on the growth of trees from the bud downwards.

A letter from Washington respecting his election, was received.

The Curators were requested to remove the Society's effects from the University to Carpenter's Hall.

1780. July 21. (7 present.)

A list of subscribing members and the sums collected was presented, and the latter delivered to M^r. Rittenhouse to hand to the Treasurer. [Amount left blank in the Minutes.]

An order passed to pay for printing Matlack's oration.

1780. October 6. (8 present.)

John Beale Boardley (of Md.)'s letter on the effects of Cold on Trees, read.

\$12.00 ordered in favor of Col. L. Nicola.

Jos. Fawcett requested to advertise the meetings.

1780. November 17. (4 present.)

Essay on insects noxious to young chickens (Anonymous) read.

1780. December 1. (6 present.)

Origin of obituary notices; appointment of a Committee "to draught a law for introducing that precedent into an established custom, with this Society." [Curious minute.]

1780. December 15. (11 present.)

Meeting presided over by Gov. Joseph Reed.

Isaac Gray on a proliferous plant.

"M^{r.} Nicola communicated a paper containing some proposals for erecting Committees of their members in the different States under certain regulations." [Laid on the table; no explanation in the minutes.]

Mr. Biddle requested to deliver the annual oration.

1781. Jany. 5. Election. (Carpenters' Hall.)

Geo. Bryan,
Thos. McKean,
D. Marbois [sic],
Ch. Thompson,

Rev^d Duffield,
Gov^r Livingston,
Gov^r Jefferson,
D^r Witherspoon,

D^r Ezra Stiles,
Mat. Clarkson,
Jon. B. Smith,
John Lukens,

1781. Jan. 19.—(21 present.)

LaFayette, Ebenezer Hazard, Jared Ingersoll and four other new members elected.

1781. Feby 2.—Too small attendance for business; adjourned to 1781, Feby 6, Tuesday.

Letter from De Granchain on the eclipse of the Sun 27 Oct. 1781; and of the moon Nov. 11, at Newport, R. I.

Rittenhouse read an account of "Some experiments in Magnetism, &c."

Also on "Height of the Mercury in Fahrenheits thermometer in Jan. 1780 & 1781." Mean of January 1780 $13\frac{3}{4}$ °, of Jan. 1781, 35°.

A committee to inquire into the circumstances of the Silk Factory, appointed.

1781. Feby 16. (9 present.)

Letter from Gen. Sullivan, on the discovery of a large body of tale, 70 miles from Portsmouth, N. H. with a specimen.

Bond from the Treasurer; receipt and bond by the Curators, to be taken by a Committee of two.

Committee on place, time and publication of annual oration, appointed.

Certificate of Membership, drafted one adopted. [The form adopted occupies only 6 short lines.]

\$100 paid for ingressing the Act of Incorporation.

1781. March 2. (At the University.)

A large meeting, among whom were some distinguished stran gers.

Owen Biddle delivered the Oration.

After the retirement of guests, D^{r.} Bond in the chair, returned thanks, and on motion a copy for publication was requested.

1781. March 16. (9 present.)

In the absence of Prest. and V. Presidents, the *eldest councillor* present, M^{r.} Marbois was called to the chair.

Report on the state of the Silk Factory. Doc. No. 6.

Note from Sam. Adams with copy of Jas. Bowdoin's

Philosophical Discourse (as Pres.) before the American Academy of Arts and Sciences in Boston. Note from Marbois with list of prizes offered by the Acad. Scien. Lyons, one of which called for an essay on "Has the discovery of America been advantageous to mankind?"

J. Boardley read on the Weather in Maryland.

Ten pounds of raw silk ordered, "of the best kind of the produce of Penn^a to be transmitted to Lyons, there to be wrought in the most elegant manner" and presented to her most Christian Majesty as a mark of very high respect.

Letters from La Fayette and others received.

Committee appointed to meet the Managers of the Silk Society and induce them to deliver up all the moneys and property of the Silk Society to be refunded if the Silk Society be revived actively, to them or their assigns.

1781. April 6. (No business meeting, only 3 members being present.)

1781. April 20. (11 present.)

Committee appointed to arrange the papers of the Society for publication. Com. of 5.

Five persons from each of the "established Committees" on Medicine and Anatomy—on Natural History and Chemistry,—on Trade and Commerce,—on Mechanics and Architecture,—on Husbandry and American improvements—were then selected to act as committees for preparing the papers for the press.

[Here are bound into the minute book 6 sheets; on the first of which is engrossed the Petition of the Society, respecting Silk Culture (idea broached in 1770), signed Thos. Bond V. P.

[Follows:—Minutes of May 21, 1782 respecting meeting in the State House to hear Dr. Bond's annual oration.

[Follows:—List of members present May 20, 82. Delivered to the doorkeeper 26 tickets.

On motion Com. apd to examine Treasurer Combe's accounts.

1781. May 4. (4 present.)

Letter of Jefferson read.

1781. June 5. (Tuesday). (10 present.)

Special meeting called by D^{r.} Bond to hear M^{r.} Biddle's report on the situation of the Silk Society, "so situated as to render it altogether vain and fruitless to apply to those who have been directors, for obtaining the stock" and recommending that an Act of Assembly be sought for transfer of the unexpended funds. Committee appointed to draft petition.

1781. July 20. (9 present.)

Papers and a book of minutes ending at the date of the union of the societies were presented.

M^{r.} Matlack related a remarkable thunder storm of July 10.

1781. Sep. 21. (8 present.)

 $\mathbf{M}^{r,}$ Hopkinson and Matlack were authorized to adjust $\mathbf{M}^{r,}$ Combe's accounts, and obtain balance due.

The Secretaries were directed to get Mr. Hopkinson's bond as Treasurer.

Com. of three appointed to prepare a bill for vesting the stock of the Silk Society in this Corporation, according to the leave given by the Hon. House of General Assembly.

1781. Sep. 29 (Saturday). (4 present.)

Special meeting to consider the draft of the bill. Com. appointed to present it to the Gen. Assembly. (The Com. reported at the next meeting that it had done so.)

PROC. AMER. PHILOS. SOC. I. VIII. PRINTED SEPTEMBER 24, 1883.

1781. No minutes until Dec. 21. (6 present.)

Ordered: An address to Gen. Washington "on the late glorious event in Virginia." Com. to draft it:—Rev^d M^{r.} White, M^{r.} J. B. Smith, and T. Matlack.

V. P. Bond exhibited an uncommon kidney of the human body, so that the society might see it before he dissected it. Although shrunken it was of not less than 3 pints capacity.

"Mr. Vice President was requested to favour the Society with an oration for the present year, and he was so obliging as to engage to deliver it accordingly."

1781. Dec. 27 (Thursday).

Committee's draft of address to Washington read and agreed to.

[The address occupies the following page.]

Ordered, that the Governor and officers of the Society be requested to attend at the delivery of the address.

1782. Jan. 4. (Library room, Carpenter's Hall.)

ELECTION OF OFFICERS.

President, Dr. Franklin.

V. P., Bond, Rittenhouse and Wilson [Pastor of 1st Pres. Church.]

Secs., Ewing, White, Hutchinson, Matlack.

Curators, Nicola, Duffield, Gray.

Treas., Francis Hopkinson.

Councillors, Reed, J. B. Smith, J. Ingersoll, Owen Biddle.

1782. Jany 18. [Merely names;—nothing follows until]

1782. May 3. (4 present.)

Letter from M. D'Abeville, Col. Artil., French army, about a partridge with two hearts.

No minutes until 1782. Oct. (9 present.)

Letter about a stone taken from "the tongue."

Dr. Bond reported that Sep. 30 R. Wells and J. Kaighn had delivered up the keys of the Silk Machines, and were ready to settle up accounts. Referred to the Treasurer.

A specimen of Epsoms salt (?) found "fossil" in Virginia, was exhibited and referred for analysis to D^{r.} Hutchinson.

1782. Dec. 20. (6 present.)

Ordered that the election be held at the University.

Dr. H. Williamson read a paper of Observations on the sea coast of North America.

Treasurer order^d to call on M^r. Coombs, and Mr Lukens and M^r. Clarkson for settlement of accounts and receipt of balances due the Society.

Treasurer desired to report on the state of the business respecting the Silk Society. He reported that he had applied to M^{r.} Wells, but that "M^{r.} Wells had started many difficulties in obtaining a meeting of the managers," until when those who possessed the effects would hold them.

On motion the Treasurer was directed in ease of refusal, to commence action for recovery.

The Com. of 5 (see April 20, 1781) was then constituted of Rittenhouse, Ewing, Gray, Hutchinson and Williamson [Hence our Publication Committee], and they "were authorized to call on such members of the Society as they may find occasion to consult."

1783. Jan. 3. (At the University.)

ELECTION.

President, B. Franklin.

V. P., White, Bond, Ewing.

Coun. 3 y. Jefferson, Witherspoon, Duffield, Rittenhouse. Treas., Hopkinson.

Secs., Hutchinson, Shiell, Davidson, Matlack.

Cur., Duffield, Gray, Eben. Hazard.

1783. Jan. 13. (21 present.)

Jefferson moved (Reed seconded) that Rittenhouse should make an Orrery to be presented to his Most Christian Majesty. Com. of three to carry this into effect.

Treasurer allowed £6. 5sh. 6d for certain expenses. Janitor allowed $7 \cdot 6$ for every meeting he attended. New members elected:—7.

1783. Feby []. (3 present.) Adjournment after conversation.

1783. March 6. (8 present.)

Rittenhouse will make an Orrery. Peter Miller's description of the Grotto of Sweetara.

Supposed discovery of a Tea plant, by Mess^{rs.} Steinemetz. H. C. Flagg's observations on the Torporific eel.

Rittenhouse proposed that the Society's Library be made useful by removal to some member's house who should act as Librarian.

Mess^{rs.} Stonemetz [sic] informed that "the Society are obliged by communications of useful discoveries but do not, in any case, pledge the reputation of the Society for the use or application of such discoveries."

Curators of the Cabinet requested to report. Treasurer to pay the doorkeeper £2 \cdot 13.

1783. April 4. (7 present.)

Wells & Kaighn's account of balance of stock and remaining utensils of the late Silk Society presented, and a comappointed to settle the affair.

Curators reported, and were on motion instructed to take immediate measures for "preserving" "the natural curiosities" "from further decay."

1783. April 10. (14 present.)

Mr-Hopkinson reported that he had examined a house in Fifth Street suitable to receive the Library and Cabinet.

117 1783. May-July.

Com, of two to review said house and enquire of the Trustees of the University at what rent it may be had.

"Resolved, that the said gentlemen [Hopkinson & Rittenhouse & Hazard] be directed and empowered to sell a building in the State House yard belonging to this Society."

1783. May 2. (8 present.)

Letters, &c., On a specimen of petrified pine, by J. McHenry.

On the Aurora Borealis, by Rev^d J. Belknap. On the Aurora of Oct. 31, 1779, by J. Page.

1783. May 16. (7 present.)

Hopkinson read an account from the Treasurer of the Silk Society, giving outstanding debts, total assets being £393. 7.61, for which the Treasurer of American Philosophical Society is to receipt and account.

F. Bailey's bill of £13 ·· 10 for printing 200 copies of the Biddle oration. Mr. Biddle asked how the 200 copies were disposed of; and was authorized to draw on the Treasurer to settle the bill.

1783. July 11.

Treasurer reported paying Mr. Biddle the balance after "debiting him for raw silk purchased by him from the late Silk Society."

Paper on a machine for ascertaining a ship's way on the sea.

1783. July 19. (9 present.)

Lot in Fifth Street near Arch, 40' × 48'; Committee to confer with the owners about a purchase. Special meeting appointed, "& notice to the members that money is to be disposed of."

Tuesday, July 22. Not enough members present to act.

1783. Sept. 26. (10 present.)

Com. reported the price of the desired lot too high.

Letter from the French Minister to Rev^d D^{r.} White that the King would accept the Orrery, and "by his Royal Patronage excite an Emulation between the Literary Societies of France and the United States."—Ordered that D^{r.} White . . . acknowledge . . . "the high sense the Society entertain of the Honor done them by his Majesty," &c.

Hopkinson's letter on a serpent in a horse's eye.

Count de Gebeline [sic], President of the Museum of Paris, thanks the Society for his election, and sends the four first Vols. [sic] of the primitive World.

L'Abbé Soulavie's Nat. Hist. S. of France, 6 Vols. presented by Franklin.

The Com. on Sale of House in State House Yard reported an offer of Eighteen pounds (£18).—Sale ordered.

Willing's lot in Third Street.—Com. appointed to enquire of M^{r.} Willing whether he will let the Society have it upon ground rent and upon what terms. If unsuccessful "they are desired to endeavor to find some other which will be suitable for the Society's purposes."

Meetings to be regularly advertized in the Thursday's newspaper.

1783. Oct. 17. (8 present.)

Letter from John Hyacinthe de Magellan, accompanying a donation and asking some questions respecting the Society.

Godefroy's engravings of the Revolution in books*—"Ordered, that receipt of usefull communications be acknowledged in the newspapers from time to time by the Secretaries, & that they revise the minutes & in the first publication mention the presents received for some time past and particularly those of the Abbé de Fontana."

Treasurer ordered to write to Mr. Combe for the Society's

^{*} Placed in charge of Curators. See note at end of meeting.

money in his hands; or for his bond for the amount, with interest; threatening suit.

Treasurer ordered to sue Jas. Rutland for debt.

Letter of Elias Boudinot, Pres. of Congress.

Ordered:—A reply to M^{r.} Magellan's letter to be signed by D^{r.} Bond, V. P.

1783. Nov. 7. (11 present.)

Com. on Powel's lot* [no mention of its appointment previously], declined it for reasons approved by the Society.

Treasurer ordered to pay W. Redegers £3 "11 "6.

M^{r.} Hopkinson requested to collect the communications made to the Society up to date; and the Sec^{s.} to publish such of them as they thought worthy of publication.

Com. to purchase a lot ordered "to continue their en-

deavors for obtaining a suitable one."

D^{r.} Smith requested to "send the different certificates & any other papers belonging to the Society, in his possession, as soon as possible."

1783. Nov. 21. (13 present.)

Janitor willing to accept £6 per annum.† Agreed to.

"Cases containing the Library and books of Natural History," were "put under the care of M^{r.} Rittenhouse untill a more convenient place can be procured."

Com. on Lot reported one in 5th Street belonging to M^{r.} Jno. Dunlap, to be got for \$1000.—Sec^{s.} ordered to "give publick notice that money will be disposed of at the next meeting."

Rittenhouse on the late discovered Planet. Improved method of quilling a harpsichord.

^{*}No previous mention of this name; perhaps it was the lot referred to in minutes of July 19, 1783.

[†] This, of course, was Pennsylvania currency; £1 = \$2.66%.

1783. Dec. 5. (At the University.) (12 present.)

Batavian Phil. Soc. sent 6 Vols. of Trans.

"M^{r.} Hopkinson offers to sell to the Society a Lot of Ground on Arch street near the Observatory 40 feet front & 100 feet deep, clear of Incumbrances for the sum of one thousand dollars."

"Secs. ordered to give publick notice that moneys are to be disposed of at next meeting."

Rittenhouse (Librarian) reported that he had removed the Library (in part) and the Cabinet to his own house.

"He is requested to continue his endeavors to collect the remainder of the books."

· Librarian ordered to deliver Dr. Smith a Vol. of the Transactions upon application.

Treasurer ordered to render his account before next annual election.

1783. Dec. 12. (At the University.) (10 present.)

An address to his Excellency General Washington was agreed upon in the words following, viz.:

Sir: The American Philosophical Society which boasts the name of your Excellency in the List of their members are happy in this Opportunity of presenting their Congratulations on the Establishment of Peace.

While they anticipate the Influence of this Event on the important Object of their Institution, they contemplate with Pleasure that the Arts and Sciences, those Friends to Liberty and virtue, will not only join in the Tribute universally paid to your merits, but will transmit them to an admiring Posterity.—May you enjoy all possible Felicity in the Retreat to private Life which remained an additional Source of Lustre to your Character, and to which you are followed by the Love of your grateful Country.

By Order and in Behalf of the Society.

PHILADELPHIA, Decr 12th, 1783.

Jon. Smith on a Water Cement.

1783. Dec. 19. (At the University.) (13 present.)

Additional laws and regulations drafted by Hopkinson. Hopkinson offers the whole lot in 5th Street, $40' \times 306'$, for £600* (\$1000 down; the rest on interest).

This, of course, was Pennsylvania currency; £1 - \$2.66%.

1784. Jan. 2. (18 present.)

Mr. Matlack, about to move into New York State, delivered up the Vol. of Trans. containing members' names; papers read at the Board; MS. of Proceedings beginning April, 1766; and "a bundle of papers containing some proceedings of the Society down to the year 1775, which he had obtained from R.S.Jones; also the Seal of the Society."

ELECTION.

President, Benj. Franklin.

V. Ps., Bond, Ewing, White.

Counc., McKean, Bryan, Marbois, Caldwell.

Secs., Patterson, Hutchison, Bond, Jr., Revd Dr. Kunzie.

Curators, Hazard, Duffield, Nichola [sic].

Treas., Hopkinson.

[Librarian Rittenhouse is then said to have received Matlack's papers and the Seal.]

[The Vol. of Trans. with names, however, went into the care of "Mr. Kuntzie." (sic.)]

1784. *Jan'y* 16. (21 present.)

Mr. Hopkinson read an Address, "the tenor of which was to stimulate the members to more punctuality in attending the meetings of the Society, & with greater ardor to promote the important designs of its institution".... and moved a Committee to propose additions and alterations to the Constitution and By-laws, to "procure a suitable building, & moderate philosophical apparatus for the use of the Society, and in general to recommend all such matters, measures and things as they may deem conducive to the end and design of the Institution."—Hopkinson, Ewing, Hazard, Morgan and Rittenhouse were appointed this Committee.

Filsted's Jamaica woods collection presented.

Hazard (Curator) transferred books to Rittenhouse's care. Count Campomanes, Rev^d. S. Magaw, S. Vaughn, J. Vaughn, Rev^d Jer. Belknap, Maj. De Brahm, Prof. Arch.

Gamble (Eng. and oratory U. Pa.) Rev. Helmuth, J. Six, Marquis d'Angeville, Comte de Vergennes, J. Dunlap, J. P. Van Berckel, Geo. Fox, J. Foulke, Ben. Binney, Rev^d. R. Blackwell, Jon. D. Sergeant, Geo. Gray, M^{r.} Haywood, of S. C., and M^{r.} John Hyacinthe de Magellan, of London, were elected new members.

1784. Feb'y 6. (27 present.)

Com. on revising the Constitution and laws reported recommendations:

- 1. A petition for a supplement to the Act of Incorporation [19 lines].
- 2. That no absentee Councillors be re-elected; the Councillors regularly summoned by tickets to the meetings; permission to the Councilmen to meet in their own apartments; other members might attend but not vote; five members should be a quorum to disburse money, at any stated meeting, due notice given.
- 3. Annual & Certificate tax [in blank] fixed; 3 years' arrears deprive of membership.
- 4. That measures be immediately taken for erecting a suitable building if a lot were purchased, it would not be difficult to raise by subscription funds to build at least it ought to be "vigorously attempted without delay" and one of the offered "lots be forthwith determined upon."
- 5. A subscription immediately opened and an application to the Legislature for aid "as soon as £1000 shall be subscribed, a committee be appointed to plan a suitable Edifice to be laid before the Society for approbation & to superintend the Building

The first three were laid over to allow of public notice.

The fourth resulted in a resolution to purchase the Hopkinson Lot next the Observatory in Arch street $(40' \times 306')$ for £600, half down, half on interest for five years.

The fifth recommendation was adopted.

Mr. Hopkinson was asked to repeat his address; and after doing so, he was requested to allow its publication.

The auditing committee reported a balance of £404 "11 " 9½ in the Treasurer's hands.

The woods of Jamaica; Calculi taken from horses; a book; and a MS. copy of Mandrillon's Answer to the prize question of the Lyons Academy presented.

1784. Feb'y 20. (19 present.)

Sam¹ Vaughan presented to the Society a 3½′ Achromatic Dolland; a Gunter's scale improved by J. Robertson (Late Lib¹ R. S.); a magazine microscope; a 11½″ lens, and 6½″ lens "framed in a mahogany trunked cone and stand; with rack work, pillar, pinion, and apparatus so as to be acted upon by the focal rays in the most powerful manner, made and presented by Mr. Parker. Mr. Vaughan's name was ordered to be "enrolled amongst those of the Benefactors of this Society."

The deed of the Hopkinson lot was produced and deposited with M^{r.} Rittenhouse. A bond and mortgage was ordered to be sealed.

The task of drawing a form of Certificate of membership was entrusted to a Committee, Dr. Smith and Dr. Magaw.

Dr. Morgan read a paper on the virtues of Cortex ruber.

1784. March 5. (19 present.)

[The Legislature had evidently granted assistance, for]

"A Com. was appointed to apply to the Treasurer of the State for the sum of money granted to this Society by the Assembly."

Bainad & Caillard's proposals for printing a Vol. of Trans. were referred to MM. Hazard & Marbois to consider and report.

Sigismund Hugge's letter on five thermometers in February

Nicola presented Observations on petrified bones found near the Ohio; thigh-bone, tusk and grinder, brought to the city by Maj. Craig.

Rittenhouse had received the deed, and sealed the bond.

"Ordered M^{r.} S. Vaughan, M^{r.} Rittenhouse & M^{r.} Hopkinson be a Committee to consider the most eligible means of providing the Society with a suitable Building."

1784. March 19. (26 present.)

Com. on Vol. Trans. reported in writing; action postponed. [It would be interesting to find this document.]

Franklin's letter, with a French treatise on Air Balloons. D^{r.} Rush was requested to publish the letter and translations of the most interesting parts of the treatise.

S. Vaughn presented a MS. copy of "Priestley's Experiments on Phlogiston and the seeming concoction of water into air," and read the first part.

The Building Committee reported conference with the Directors of the Library Co. of Philadelphia and the presentation of a joint petition to the General Assembly, "for two Lots of ground on the East and West sides of the State-House square."... "Highly approved."

Mr. Hopkinson added to the Certificate Committee.

Rittenhouse read observations on the "Comet lately discovered."

1784. April 2. (14 present.)

Dunlap's proposals to print a Vol. Trans. read and laid on the table.

Certificate draft adopted in form following: -

The American Philosophical Society, held at Philadelphia, for Promoting Useful knowledge, desirous of advancing the Interests of the Society, by associating to themselves [Blank left to be filled.]

[Short—but the blank in third line was ordered to be filled, "in case of a resident member with the following words—'Gentleman of Genius, Ability and literary Merit,'—and in case of a foreign member—'Men of distinguished Eminence, and of Conferring marks of their esteem upon Persons of literary merit.'"]

Engraving of Certificate ordered by Com. of De Brahm and Du Simitière.

J. Vaughn presented (by letter) 33 Vols. of Priestley's works. S. Vaughn, copper-plate prints of Mechanical Machines, 2 Vol. F., and a number of other fine works.

La Fayette's letter, "enclosing an authentic narrative of experiments lately made in France with Air Balloons."

"Dr. Bond (V.P.) being dead, an election for his successor was ordered for the next meeting.

1784. April 16. (16 present.)

Belknaps's letter on the preserving of parsnips by drying. Radiger's account for candles, £2 ·· 7 ·· 3, ordered paid. La Fayette's packet duplicated by one of the Secretaries.

1784. May 7. (17 present.)

Hopkinson ordered to settle finally De Haven's account. Rittenhouse's offer of £3 and taxes for this year's use of. the Arch street lot, accepted.

S. Vaughn elected Vice-President, vice Bond, deceased.

Thos. Bradford's proposal to print Vol. 2 Trans. accepted; conditions as follows:—"1. The work to be executed on good paper & a new letter & in such a manner as will do credit to the Society; 2. Thirty copies in boards to be delivered to the Society gratis and any further number at a price that may be thought reasonable by the Society." Mr. Bradford would hold exclusive copyright of printing and vending the same for fourteen years; but the publication to be under Committee's inspection.

Hopkinson and Bradford added to Certificate engraving committee.

Resolved, That Thos. Bradford be appointed printer to this Society during the pleasure of the same.

Hazard, Nichola [sic] and Rittenhouse appointed a Com. for collecting papers proper to publish in Vol. 2. Trans.

1784. May 22. (6 present.)

Hopkinson requested to have the form of Certificate printed for immediate use (pending engraving).

1784. June 11. (13 present.)

Hopkinson produced a number of [printed?] certificates. Ordered that [blank] of them be filled with the names of the following foreign members viz. [large blank] and deliver the same to the Minister of France to convey

Descriptions of machines invented in the United Netherlands for draining marshes, scouring canals, &c., presented and referred to a Com.

Dr. Morgan's motion for encouraging an effort to send up a large air balloon was deferred to the next meeting.

[This minute of 19 lines is very curious and amusing.] Hutchinson, Morgan and Rush added to the Com. to collect papers for Vol. 2. Trans.

1784. June 19. (13 present.)

Botanical garden ordered to be planted on 200 feet of the Arch Street lot next the Observatory. Hopkinson and Rittenhouse a Com. to "look out for" a gardener.

The United Netherlands machine papers accepted by the Committee and ordered to be published in Vol. 2, the originals to be deposited with Rittenhouse.

Williamson's paper on the flat coast of N. Carolina returned at his request.

D^{r.} Morgan read a paper on Air Balloons and withdrew his motion (see June 11).

1784. July 15. Only 3 present, two elergymen and Mr. Patterson.

Election of new members postponed.

[The heat had driven the Society out of town, probably.]

1784. Aug. 12. Special Appointment. (22 present.)

La Fayette "entertained them with a particular relation of the wonderful effects of a certain invisible power, in nature, called animal magnetism lately discovered by M^r. Mesmer, a German Philosopher, and explained by him to a number of Gentlemen in Paris of which number the Marquis was himself one. By this Relation it appears that persons may be so impregnated with this power (by a process which the Marquis does not think himself at liberty yet to explain) as to exhibit many phenomena similar to those of metallic magnetism."

1784. Aug. 20. (6 present.) [No minutes.]

1784. Oct. 15. (12 present.)

Belknap's Hist. of New Hampshire presented with a letter.

1784. Nov. 5. (6 present.)

Com. of 2 to examine and price collection of Curiosities of late M. Simitière (S. Vaughn, Dr. White). Special meeting ordered, and money notice given.

1784. Nov. 12. Special meeting. (16 present.)

Com. reported that the Collection was not yet arranged in lots and selection and estimate was therefore impossible.

Com. on collecting papers for Vol. 2. directed "to compleat [sic] that business with all convenient speed"....

Com. of 8, "to take the opinion of the Chief Justice respecting certain sections of the Charter of Incorporation . . . "(Dr. Shippen Jr., Matlack, Hopkinson.)

Com. of 3 to draft "a petition to the Assembly for a lot of ground in the State House square [sic] for the purpose of erecting thereon a suitable building"

Medal of Revd Chr. Meyer of Heidelberg, received.

Cor. Secs. ordered to report whether they had performed their duty in acknowledging foreign presents.

Hopkinson ordered to settle with former Treas. Lukens.

1784. Nov. 19. (12 present.)

Hutchinson reported all presents acknowledged except $\mathbf{M}^{r.}$ Parker's burning lens.

Letter on animal magnetism by Chev^r d'Armours [sic] with pamphlet by D^{r.} P. Hervier [?] of the Sorbornes [sic] read.

Spec. Com. of 2 (Hopkinson and Patterson) ordered to publish Vol. 2. Under the direction of the General Committee.

1784. Dec. 9. (10 present.)

Hazard sends in a list of papers in Rittenhouse's possession, and asks his own discharge.

Improvement on Hadley's quadrant by M^{r.} Ben Workman (teacher of Math. in the Univ.), described by M^{r.} Patterson. Publication ordered.

Petition to the Assembly for two lots. Draft presented and read and "amended so as to submit the particular appropriation of said lots entirely [sic] to the good pleasure of the Assembly."

"Ordered that if the Library Company shall think proper to adopt the above amendment the petition be immediately presented; but if the said Library Company shall decline this, that the Committee be directed to present a similar petition in name of this Society alone."

Further improvements in quilling a harpsichord.

M. Marbois presented the Report of the Commissioners appointed by the King of France to examine into the merits of D^r. Mesmer's late discovery of animal magnetism.

1784. Dec. 17. (No names of members are given.)

The Library Company having declined to join in the [amended joint] petition, M^{r.} Vaughn reported that he had presented a sole petition.

Pub. Com. reported that M^r . Bradford's answer to their query when he would begin had not been satisfactory. Ordered that M^r . B. be asked whether he would be ready by





the 1st of February and how long it would take to get out the Vol. If unsatisfactory "the Society have it in contemplation to apply to some other printer."

1785. Jan'y 7. (14 present.)

ELECTION.

President, B. Franklin.

V. P., Ewing, White, S. Vaughan.

Coun., J. Ingersoll, J. B. Smith, Jos. Reed, Rev^d R. Blackwell.

Secs., Hutchinson, Dr. T. Bond, R. Patterson, Rev^d Dr. S. Magaw.

Cur., E. Hazard, Dr. S. Duffield, Gen. Lewis Nicola. Treas., Fran. Hopkinson.

1785. Jan'y 22. (24 present.)

Mandrillon's Le Spectateur Americaine presented.

Election of twenty-eight new members (among them two Barons; James Maddison [sic] Esq. of Virginia; Muhlenberg, Michaelis, Priestley).

[A new handwriting appears in the minutes.]

1785. Feb'y 4. (15 present.)

Com. on Pub. ordered to report—Hazard added. Letter of Count Vergennes,—Certificates.

1785. March 4. (6 present.)

Bradford writes of his disappointment in not receiving his expected new types. He has no objection to their employing some one else. Committee ordered to immediately treat with $M^{r\cdot}$ Hall, or some other suitable printer.

A model of a wind-carriage; a rock crystal; an exceedingly large tusk and grinders from near Ohio; presented by W. Henry of Lancaster. And a huge moose horn from Mrs. Pauli of Philadelphia.

M^{r.} Hazard instructed to have certificate engraved.

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1785. March 18. (9 present.)

M^{r.} Hazard being about to remove to New York, M^{r.} Hopkinson was substituted.

Treasurer ordered to tell M^{r.} Coombe's attorney that on payment of costs the suit against him would be dropped.

1785. April 1. (7 present.)

[The lot had been granted by the Assembly;* for the first minute reads:—]

"Agreed, on motion, that a subscription be opened immediately to enable this Society with all the expedition practicable to erect a proper building in which they may hold their meetings and conduct their transactions, on the Lot granted by the General Assembly in the State House Yard." Patterson and Magaw to draw up the form. Vaughan and Magaw to solicit and procure subscriptions. Shippen, Sam. Powel, Hutchinson and S. Vaughan to procure stone and other necessary materials for laying the foundations. Adjourn to Tuesday next.

1785. April 5. (7 present.)

"As several considerations point out the expediency of building upon the ground lately granted by the General Assembly without much procrastination, it is therefore Agreed, that the committee last mentioned be empowered to begin and carry on that work as far as the sums of money to be subscribed and collected will enable them."

[This is all that is minuted for this meeting, but something more must have been done, for the minutes of the next meeting begin:—]

1785. April 15. (4 present.) [White, Vaughan, Patterson, Magaw.]

"The form of subscription paper directed at the last meeting to encourage the construction of a house

^{*} The Act of Assembly is dated 28th March, 1785. ("Smith's Laws," Vol. 2.)

.... was read, and after receiving a few alterations adopted. The following is a copy of it:—"

"Inasmuch as useful Knowledge is always an object of first consideration amongst an enlightened and Free People; and as the American Philosophical Society was instituted for the express purpose of cultivating such branches thereof, as have an immediate tendency to advance the Agriculture, Manufactures, and Commerce of this country; as well as to pursue more deep and refined disquisitions in the field of nature;—

—And whereas their proceedings and success have been, heretofore, and still are, greatly impeded, thro' want of a suitable place to meet in, and proper Repositories for the Books, Apparatus, and various Communications, Donations, etc.—to remedy which, the General Assembly of this Commonwealth have, by a special Act, granted and confirmed to the said Society, and their Successors, a very convenient Lot of Ground, being part of the State house Square, on the East side;—Therefore, we the Subscribers, desirous, with all practicable expedition to enable a Committee which is appointed for the purpose, to construct a neat, sufficient Building on the ground aforesaid, do, hereby, promise to pay, within three months after the Date hereof, into the hands of the Treasurer of the American Philosophical Society, or to any person authorized by them to receive the same, the Sums annexed to the Subscription of our respective Names———

Dated at Philadelphia, this Day of 1785.

A. B.
C. D. &c.

1785. May 6. (5 present.) [No minutes.]

1785. May 20. (6 present.) [No minutes.]

1785. June 17. (12 present.)

Abbot offers to collect curiosities in Georgia.

P. Stewart sends in proposals to print Vol. 2.

Plan of the building presented by M^{r.} Vaughan for consideration was approved:* "Dimensions

State House Yard,		Passage 12 feet b	y 47
		Hall or largest room on S. side 27	" 47
	١ ١	Room on the N. E. side . 27	23
	Z		23
		Height of the 1st floor . 14 feet.	
		"	
		Cellars to be 7 "	high.
Fifth Street.	- '	Vaults under them . of equal hei	ght.''

^{*} Mem. This diagram is not in the text, but has been drawn by the Librarian.

"Resolved that the Committee already appointed are authorized and impowered [sic] to begin this work immediately, or to defer it some time longer—as they may judge most expedient."

Treasurer directed to pay for writing 5 foreign certificates, "£5 .. 8 .. 4, Vellum included, 4 .. 2 each."

Treasurer to pay W^m. Rediger [sic] for attendance and candles £3 ·· 15.

Publication Committee directed to "speedily apply to M^{r.} Rob. Aikin [?] of this city," and report the terms on which he is willing to undertake the work.

1785. July 15. (12 present.)

Muhlenberg sent his specimen of a Flora Lancastriensis, and floral Calandarium. Referred to Committee Natural History and Chemistry.

Three Vols. Royal French Academy and "a very curious Electrical Apparatus, presented through Mr. Marbois, by Dr. Noel of Paris; deposited with Rittenhouse; thanks ordered.

1785. Sep. 16. (9 present.)

D^{r.} M. de Mederer's letter from Friburg, on the Rhine, and short dissertation on preserving men and animals from hydrophobia, with facts and cases.

Committee of 3 to invite "the Honorable Doctor Franklin to take his seat as President of this Society; and that they prepare an address to him in that Character, at their next meeting, if it may be convenient for him to be present." Special meeting next Friday evening at 6 o'clock.

1785. Sep. 27, Tuesday; Special occasion. (Franklin and 18 other members present.)

The following address to Franklin presented:

 $\mathrm{Sir}\colon \mathrm{It}$ is with peculiar Pleasure, that the American Philosophical Society address you on this occasion.

The high consideration and Esteem in which we hold your character, so intimately combined with our Regard for the Public Welfare, that we

participate eminently in the general Satisfaction which your Return to America produces. We bid you Welcome to your native Country, for which you have done the most essential Services.

And we welcome you to this Chair; your occupying of which, as President, adds to our Institution much Lustre in the eyes of all the World.

Sir, it reflects Honour on Philosophy, when one, distinguished for his deep Investigation and many valuable Improvements in it, is known to be equally distinguished for his Philanthropy, Patriotism, and liberal attachment to the Rights of human Nature.

We know the favorable influence that Freedom has upon the growth of useful Sciences and Arts. We derive Encouragement and extraordinary

Felicity from an assemblage of recent memorable Events.

And while we boast in a most pleasing Equality permanently ascertained; and that Independence which you had so great a share in establishing; we have every reason to expect that this Society will proceed with an increasing Success, to manage the great Purposes for which they originally associated."

To which the President answered:

"Gentlemen: The great Honour done me by this Society, in choosing me so many years successively their President, notwithstanding my Absence in Europe; and the very kind Welcome they are pleased to give me on my Return, demand my most grateful Acknowledgments; which I beg they would be pleased to accept, with my warmest wishes of Success to their laudable Endeavours for the Promoting of Useful Knowledge among us; to which I shall be happy, if I can in any Degree con tribute."

Hopkinson exhibited East India scrip on cocoanut strips. "The Model, with a drawing and description of a Machine for working a boat against the stream by means of a steam engine, was laid before the Society by M^{r.} John Fitch."

Botanical prints and descriptions presented by C. L'Heritier.

1785. Oct. 7. (4 present.)

Two ærial voyages by Jeffries and Blanchard; paper by D^{r.} Jeffries of London. (Reading deferred.)

1785. Oct. 21. (6 present.)

Hopkinson read "a full & particular Dissertation, written by Dr. Franklin, upon the various defects in the construc-

tion of chimneys pointing out the remedies with occasional illustrations."

1785. Nov. 4. (11 present.)

Jeffries' paper read (see Oct. 7).

Vaughan and Rittenhouse appointed Committee "to employ proper persons to shoar [sic] the Cellar Wall of the Society's intended Building in the State House Yard against the impression of the winter's frost."

Same committee ordered to consider and inquire "in regard to Supplement (now suggested as necessary to be petitioned for) to the Law lately passed by the General Assembly granting a lot"

Rittenhouse's letter to D^{r.} Ewing describing "a new invention for fixing a Meridian Mark to an observatory," and "cross hairs in the telescope."

Publication Committee ordered to "immediately consider M^{r.} Aitken's late proposals & agree with him if they judge proper, or with whatever person will execute the work handsomely & in season."

"500 copies is the number to be printed."

Rediger's bill for candles. 1 cord of wood and a half year's attendance, £4.15.1, ordered paid.

1785. Nov. 10. Special Meeting. (6 persons.)

"750 copies shall be the number" (not 500).

Vaughan's petition read and ordered to be "fairly transcribed immediately," and signed by the Committee on the first petition for the lot, for presentation to the Hon. House.

1785. Nov. 18. (3 present.)

Copy of Vol. I Trans. ordered to be sent to Franklin.

Robert's account "for proping [sic] the State house Wall [sic] and securing it against the influence of the frost, on one side of the Society's cellar, ordered to be paid; said account including plank and scantling amounting to £3 "16 "6."

[This must refer to the wall running around the State House yard, a jog in which must have been made to let in the Society's building.]

1785. Dec. 2. (12 present.)

Treasurer's account committed.

Rittenhouse reports presents of pamphlets.

"Ordered that the custom be revived of delivering an annual Oration . . . and that $D^{r_{\cdot}}$ Rush pronounce the next, as early in the year as may be convenient for him." $D^{r_{\cdot}}$ Rush came in and accepted.

Magellan's letter announcing the transmission of books "arranged under 13 articles." "In the letter were contained Proposals for making a Donation to the Society of 200 guineas, to be appropriated as a perpetual Fund; the interest of which to be annually given, in a medal of gold, as a Premium to the author of the best Discovery, or most useful Improvements relating to Navigation or Natural Philosophy." Franklin and Hopkinson were requested to act as a committee to consider the proposal; acceptance and thanks voted.

Franklin's Dissertation, "containing a great number of curious and useful observations & discoveries relative to Voyages and Maritime affairs," read; and copies of this, and that on chimneys requested for publication.

Certificate on vellum for Magellan ordered.

Secretaries ordered to publish a list of communications.

Aitken's proposals to print Vol. 2 agreed to, 750 being substituted for 1000 copies.

Copies of Fitch's drawing and description of a machine for rowing a boat against the current presented.

1785. Dec. 16. (10 present.)

Von Burgdorf's* letter and dissertation "on the Comparative relation [sic] of the Vegetation of different plants," presented by Wynkoop.

^{*} Of Berlin.

D^{r.} Rush's dissertation on the cause of the increase of bilious and intermittent fevers in Pennsylvania, was read by himself.

Treasurer's account audited.

Rittenhouse's letter to Franklin "Changes which the globe of the earth in some parts hath undergone, most probably by the falling of" [left blank]. "The observations are principally confined to the Western district of Pennsylvania."

Admission and annual fees fixed [in blank], and law to be passed on next annual election day.

Forty copies of Humphrey Marshall's Catalogue of American Forest trees and shrubs ordered.

Charles Peale's portrait of Franklin, "copied from a much admired painting of Martin," presented by letter. Thanks returned, and M^r Peale requested to keep the portrait "till the Society shall have a convenient place for its reception."

1786. Jan'y 5. (20 present.)

Franklin elected President.

V. Ps., Ewing, White, S. Vaughan.

Coun., Rittenhouse, Rush, D^{r.} Jones, D^{r.} Kuhn (in place of Hon. M^{r.} Jos. Reed, deceased), Rev^d D^{r.} G. Duffield.

Treas., Hon. Fra. Hopkinson.

Secs., Jas. Hutchinson, S. Magaw, R. Patterson, J. Foulke. Curators, S. Duffield, B. Binney, W. Bradford.

Hopkinson presented draught of Law for augmenting the Annual Contribution of Members and the Deposit Money of New Members; read, debated, amended and passed, as follows:

A law to increase the annual subscription of the members of the American Philosophical Society, held at Philadelphia, for promoting useful knowledge, and also to increase the deposits of newly-elected members on their admission into the Society.

Whereas the customary annual payment of *Ten Shillings* from each member of the American Philosophical Society, and also the customary deposite of *Ten Shillings* by each newly elected member on his admission

into the said Society hath been found inadequate to the necessary and occasional expenditures of the Society

Be it therefore enacted and it is hereby enacted by the American Philosophical Society held at Philadelphia for promoting useful knowledge by virtue of the chartered rights to the said Society granted and by authority of the same, That for the future that is to say from and after the first day of March next the payments to be made by any member of the said Society shall be four Dollars annually, and the deposite to be made by every new elected member from and after the said first day of March shall be Ten Dollars, and no member who shall be in arrear for his annual subscription or deposite, shall be eligible to any office in the said Society, or be permitted to vote at elections or at the ordinary meetings of the Society until he shall have fully paid up his said arrears.

And be it further enacted, that no newly elected member shall receive a certificate of his election or be admitted as a member of the said society until he shall have paid into the Treasury the said deposit of Ten Dollars and also his arrearages of four Dollars per annum, if any shall have accrued from the time of his election.

Provided always that honorary members in foreign parts shall not be subject to this law nor shall their Certificates of Election be withheld on account of their not paying the Deposite or annual subscription aforesaid. Nevertheless if any such foreign member should happen to come to the city of Philadelphia with a view of settlement or residence, then such member shall pay the deposite money before directed and shall thenceforth be liable for the annual subscription in common with other resident members

And be it further enacted that all former laws, ordinances or customs inconsistent with or contradictory to this Act be, and the same are hereby repealled [sic].

Enacted into a law at a meeting of the American Philosophical Society according to charter this sixth day of January Anno Domini 1786.

1786. Jan'y 20. (18 present.)

Magellan's Fund. Draught of letter to him and a set of rules, by Hopkinson, read, amended and agreed to:—

THE LETTER.

SIR: The American Philosophical Society acknowledge the receipt of Your favour of the 17th Sep^r. last communicated by our Vice President M^r. Vaughan and having considered your proposal respecting the establishment of an annual premium of the value of Ten Guineas to be disposed of by the Society to the author of the best discovery or most useful improvement in Navigation or Natural Philosophy do thankfully accept the generous donation; and sincerely wish the event may fully answer the

good design; to promote which no attention shall be wanting on the part of the Society.

A Committee having been appointed to frame Rules & Conditions for the disposition of the proposed premium according to your intention but more precise in the terms reported the enclosed which have been adopted by the Society. If they should meet with your approbation they are to be conclusive. If otherwise they are submitted to such amendments as you may think proper and necessary.

As these rules are so consonant with your own Ideas expressed in your letter, we do not apprehend that you will wish any considerable alterations to be made in them; and therefore to avoid loss of time in an establishment which we flatter ourselves may be of considerable public utility we request that you would cause the said 200 Guineas to be lodged in the hands of M^r. Benjamin Vaughan—of London subject to our draught and as soon as he shall inform us that he has rec^d, the same and is ready to pay that sum to our order we shall without unnecessary delay provide for funding this capital and advertise the proposed premium with the terms and conditions on which it is to be awarded— As we are desirous of putting this Scheme in execution as speedily as possible; we hope you will not delay answering this letter and that you will inform us to whom we are indebted as the founder of this institution in Order that his name may be anounced [sic] in the publication of the scheme and engraved on the proposed Golden plate.

We have to inform you that a 2^d volume of our Transactions is now in the press and will make its appearance in the Spring. We hope this volume will shew to your satisfaction that we have renewed our philosophical labours. We shall take the earliest opportunity of forwarding a copy to so valuable a member.

Enclosed you have a certificate of your election into our Society which ought to have been handed to you long since but was delayed by an accident not worth recounting.

We sincerely wish you health and happiness and that your benevolent purposes may be crowned with success

Signed by Order &c.

THE RULES & CONDITIONS, &c.

Mr. John Hyacinth de Magellan of London having made an offer to the American Philosophical Society of 200 Guineas to be vested in a permanent fund that the interest arising therefrom may be disposed of in an annual premium to be adjudged by the said Society or their delegates to the author of the best discovery or most useful improvement relating to Navigation or to Natural Philosophy mere Natural History only excepted which offer having been accepted by the said Society. The conditions on which the said annual premium will be adjudged are as follows:

[1sr.

The candidate shall send his discovery invention or improvement, ad-

dressed to the President or a Vice President of the Society, free of postage or other charges; and shall distinguish his performance by some motto device or signature, at his pleasure. Together with his discovery invention or improvement, he shall also send a sealed letter, containing the same motto device or signature, and subscribed with the real name and place of residence of the author.

2D.

Persons of any nation, sect, or Denomination whatever, shall be admitted as candidates for this premium.

2n

No discovery, invention or improvement shall be entitled to this premium which hath been already published, or for which the author hath been publickly rewarded elsewhere.

4ти.

The Candidate shall communicate his discovery invention or improvement either in the English, French, German, or Latin Language.

5тн.

All such communications shall be publickly read or exhibited to the Society, at some stated meeting, not less than one month previous to the day of adjudication, and shall at all times be open to the inspection of such members as shall desire it. But no member shall carry home with him the communication description or model, except the Officer to whom it shall be intrusted: nor shall such Officer part with the same out of his custody, to any but the Judges who may demand it for consideration.

6тн.

The twelve Counsellors, together with the other Officers annually elected according to the Charter and Laws of the Society, shall be Judges of the merits of the several communications, and award the premium. Which adjudication shall be determined by a majority of Judges met; provided that such majority be not less than seven concurring votes.

7тн.

And for this purpose the Counsellers and other Officers, or at least seven of them shall meet on the second Monday in December, in every year, to form their Judgement and award the premium. After due consideration had a vote shall first be taken on this question viz. 'Whether any of the communications then under inspection, are worthy of the proposed premium?' If this shall be determined in the negative, the whole business shall be deferred till another year. But if in the affirmative, the Judges shall then proceed to determine by vote, the discovery invention or improvement most useful and worthy. And that discovery invention or improvement which shall be found to have the greatest number of concurring votes, being not less than seven, in its favour shall be successful. Whereupon a certificate in writing shall be forthwith drawn of the adju-

dication, and signed by those who voted for the crowned subject; and then, and not till then, the sealed etter accompanying the crowned performance, shall be opened and the name of the author announced; which certificate shall be presented to the Society, at their next stated meeting, and delivered to the Secretary to be entered on record, in a bound book provided for this purpose.

8тн.

A full account of the crowned subject shall be published by the Society as soon as may be, after the adjudication, either in a separate publication, or in the next succeeding volume of their transactions, or on both.

9тн

The unsuccessful performances shall lie over for consideration, and remain, as candidates for the premium, for five succeeding years, next after their presentment; unless the author or authors shall think fit to withdraw them or any of them; and the Society shall publish annually, an abstract of the titles, object or subject-matter of the communication, so under consideration, such only excepted as the Counsellors and other Officers shall, by vote as aforesaid, have determined not worthy of public notice.

10TH.

No counsellor or officer who is a candidate shall sit in judgment, or give his vote.

11TH.

The letters containing the names of authors whose performances shall be rejected, or shall be found unsuccessful after a tryal of five years, shall be burnt without breaking the seals.

12TH.

In case there should be a failure, in any year, of any communication worthy of the proposed premium, there will then be two premiums awarded in the next year. But no accumulation of premiums shall entitle an author to more than one premium for any one discovery, Invention or improvement.

13ти.

The premium shall consist of an oval plate of solid standard Gold, of the value of *Ten Guineas*.

On one side thereof shall be neatly engraved the following motto together with these words, The Donation of of London. Established in the year 1786. And on the other side of the plate shall be engraved these words: Awarded by the American Philosophical Society to for his discovery of A. D. President.

And the seal of the Society shall be annexed to the said holden plate, by a ribbon passing thro' a small hole, near the lower edge thereof.

1786. Jan'y 28. (8 present.)

Ewing's method of calculating the size of the Earth. Cascade in Fayette County, by Capt. Hutchins. Franklin's paper on a Hygrometer, read. Franklin's description of an Urn Stove, read. Hopkinson's further improvements of the Harpsichofd. Letter from Humphrey Marshall [Forest trees]. Morrison (of Montreal) on the late Dark Day.

1786. Feb. 3. (8 present.)

Rush's paper on Martin's cancer powder.

1786. Feb. 17. (6 present.)

Rush's oration ordered for Monday 27, evening, in the Hall of the University. Public notice to be given. Secretaries to prepare 1000 tickets, 800 to be distributed to ladies and gentlemen applying for them; invitations to the Executive Council and Assembly of the State.

Von Burgsdorf's papers ordered to be sent to the American Agricultural Society in Philadelphia, inviting a course of experiments and observations on the growth of plants—or return the papers.

Hopkinson and Rittenhouse on an optical illusion.

1786. Feb. 27. (Franklin and 14 others present.)

Procession to the University. Oration by Dr. Rush "On the influence of physical causes on the moral faculty" "before a very respectable assembly of gentlemen & ladies convened for the purpose." Thanks and request for copy to publish.

1786. March 3. (3 present.) [No minutes.]

1786. March 17. (8 present.)

Expense of annual oration $£5 \cdot \cdot 7 \cdot \cdot 2$ ordered paid. Ruston's letter to Franklin on smoky chimneys read. Rush's paper on the Tetanus read. Patterson (Sec'y) directed "to prosecute such of those concerned in a roit [sic] at the University during the delivery of the late annual oration as may come to his knowledge."

Collin's bill for writing a copy of the certificate of membership for the engraver, £1 · 15 · 0 ordered paid.

1786. April 7. (7 present.)

Crookshank's bill for 40 copies of the American Grove (£7 ·· 10 ·· 0) ordered paid.

Shallus' bill for transcribing and engrossing Supplementary Bill to act vesting a lot in the Society $\pm 0 \cdot 11 \cdot 3$ ordered paid.

Otto's letter to Franklin on the First Discovery of America read. Griffith and Fox requested to translate it into English for the Society.

Patterson's paper on Finding the Variation of the Compass, read.

Trenchard's bill for engraving certificate £10.

1786. April 21. (15 present.) [Not enough, it seems for the election of new members.]

1786. May 5. (4 present.)

Morgan's papers on a snake in a horse's eye, and two spotted negro children, read.

1786. May 19. (9 present.)

Morgan's paper on anatomical preparations by corrosion, read.

Bills (3) to the amount of $\mathfrak{L}11 \cdots 7 \cdots 10$ ordered paid. [Objects not stated.]

[Change of handwriting.]

1786. June 16. (11 present.)

Aitken's letter reporting progress on Vol. 2.

Letter to Franklin, with enclosed Silk dyed with American red root, or Indian paint, describing the process, and medicinal qualities of the root.

Building Committee reported. It was then

"Resolved, as the building of vaults & cellars thereon would be very expensive: that cellars only may be built, and to be raised two feet in the clear, above the State House garden [sic] in order to have windows to give light and a thorough air thro' the cellar."

"Resolved, that as the intended Hall will, for the most part, be used after sunset; that it may be built on the North side; and that the two Rooms may be built on the South side, for the advantage of having light

and air."

[That this change of plan was carried out appears from the fact that two rooms were really built on the south side; the archway in the great room, as it now is, was afterwards cut in a solid wall. It is evident that the north side has once been all one room, for the partition now up is thin. 1880. J. P. L.]

Glauber salts and sal ammoniac presented by Christopher and Charles Marshall.

1786. June 23. (7 present.)

Printing of Vol. 2, finished. Aitken directed to advertise. Price "in board" fixed at 20 sh. "with proper allowance to those who may purchase a quantity."

1786. July 21. (Franklin and 22 others present.)

Franklin, Vaughan and Hopkinson appointed a Committee "to forward the sales of the Volume . . and send, in donations, any number not exceeding 20 copies, to such Societies and particular persons in Europe, as they shall think entitled to this respect."

Proposed sale of the Arch street lot to help the building. Committee to receive bids.

Election of 34 new members. [Among these are Robt.

Morris, W. Temple Franklin, S. Vaughan, Jr., C. W. Peale, W. Rawle, Duke de Rochefoucault, Marquis de Condorcet, Charles the Æronaut, Cabanis, L. Crell, Count de Castilione of Milan, Noel, R. Kirwan of London, B. Vaughan of London, Jas. Beattie of Aberdeen, &c.]

1786. Aug. 18. (17 present.)

Mr. Vaughan produced an account of his expenditures on the Society's Building. [Account not named in the minutes.] Ordered to be audited.

Vaughan's bill for filling and sealing certificates £12 $\cdot \cdot$ 1 $\cdot \cdot$ 7 passed.

Building Committee directed to take proper measures for securing the work against the weather.

Thirty copies substituted for 20 (Vol. 2) to foreign societies.

C. Peale's letter with drawing of a Fan Chair made for him by an ingenious mechanic of Philadelphia, Mr. Cram. Rob. Lesslie's letter and drawing of a Tide Mill.

1786. Sep. 15. (10 present.)

Engraver's bill (Paupard's) presented £68 · 8 · 4 (£26 · 10 paid). Mr. Vaughan ordered to examine it.

Building bill: for boards and covering the walls $\pm 12 \cdot 18$ $\cdot 2$. Ordered to be paid.

Aitken's printing bill (Vol. 2) £393 ·· 13 (£78 ·· 4 paid) presented, and £100 asked for at once, or in a six month's note.

1786. Oct. 6. (11 present.)

Engraver's bill (Paupard's) for 5 plates in Vol. 2 (see Sep. 15). Mr. Vaughan "reported that the work might have been done at a much cheaper rate by other artists." Mr. Paupard agreed to deduct £9. Payment ordered.

Magellan's acknowledgment of correspondence and agree-

ment to the Rules of Fund proposed, excepting in the following particulars:

It is his desire that "not only the members of the council but also that every other member of the Society who declares upon his honour either by word or by writing if absent to have considered and weighed the respective merits of the claims shall have his free and equal vote with any other member of the same Society. That though it will be very proper that the Council should declare beforehand their opinion, and judgment about the merits and respective preference among the claims, yet the final decision is to depend entirely on the majority of the votes by ballot given by the members at large excepting only those who don't chuse to vote at all or do not openly declare by word to the Society or by writing, if absent, that they have considered and weighed according to the best of their judgment the comparative merits of the claims." It is his desire also that his name be not known to the public in this donation till after his death, and that the simple title of a lover of useful knowledge suffice in the meanwhile to be mentioned in the prospect or announce [sic] of the said premium. And lastly that the word Astronomy be added after that of Navigation in the introduction or preamble to the premium. He concludes:

As soon as these articles are agreed to on your side [two illegible letters here], you may draw immediately on me for the 200 Guineas payable here to Mr. Benjamin Vaughan on your account for the said purpose; and I hereby promise to pay at sight this sum immediately after receiving your just mentioned acceptation of the required conditions, &c.

The Society unanimously agreed to Magellau's alterations, and appointed Secretary Foulke to say so; and the President to draw on Magellan for the fund.

Building. Vaughan's bill "for having an area round the Society's Hall" £2 "5 "0; passed.

The Auditing Committee reported that corrections of the Vaughan's accounts were upon the whole in favour of M^r . Vaughan. "Ordered, that the Treasurer be directed to pay to M^r . V. out of the money subscribed towards carrying on the building £365 "10 "4."

1786. Oct. 20. (9 present.)

The Committee to carry on the building in the State House yard reporting itself not "able to concur" it was discharged and another appointed; viz. S. Vaughan, T. Clifford and T. Parke.

The Treasurer was ordered to pay R. Aitken £100 on account.

1786. Nov. 3. (8 present.)

Correspondence with Le Cercle des Philadelphes at Cap François, Haiti.

Eben. Robertson's model for clearing wells of fixed air presented.

Wm. Rediger's account (Janitor), 6 months, £5 "7"7, allowed.

1786. Nov. 17. (6 present.)

Aitken ordered to send 150 copies of Vol. II Transactions American Philosophical Society to Dilley, London bookseller, and charge at 9 sh. ster. per copy.

One of the Secretaries offered a draught of Rules and Conditions for the adjudication of M^r . Magellan's Annual Premium. Approved and ordered to be published. [The MS. copy occupies the next $2\frac{1}{2}$ pages.]

Hopkinson, Treasurer, desires to resign and have his accounts audited. Letter laid over.

Building Committee authorized to collect subscriptions. John Jones' model of a bridge presented.

1786. Dec. 1. (9 present.)

Rittenhouse and Patterson appointed to audit the Treasurer's accounts.

A great tooth of some unknown animal found at Tioga, on the Susquehanna, was handed over to M^{r.} Peale to have a drawing of it made.

1786. Dec. 15. (7 present; Count Castaloni [sic].)*

Treasurer's balance reported, £15 · 11 · 81.

Anonymous paper on stove-rooms and greenhouses read.

Papers on Agriculture formerly sent by the Society to the Agricultural Society, were returned,

[·] Custitione in minutes of July 21, 1786,

1787. Jan. 5. (25 present.)

ELECTION OF OFFICERS.

President—Benjamin Franklin.

Vice-Presidents-Ewing, White and Rittenhouse.

Secretaries-Hutchinson, Patterson, Magaw and Foulke.

Curators-Duffield, Binney and Bradford.

Treasurer—Hopkinson.

Councillors (for three years)—McKean, Bryan, Caldwell, Hoge.

1787. Jan. 19. (25 present.)

Wm. Bingham, Benj. Chew, Jr., Francis Johnston, Receiver of the Land Office, Jos. James, Robt. Milligan, and Wm. Barton, all of Philadelphia; Dr. Thos. Ruston, of Chester county; Major Isaac Craig, of Pittsburgh; Simeon De Wit [sic], of New York; Jas. Bowdoin, Governor of Massachusetts; Lewis Wm. Otto, Chargé des Affaires of his Most Christian Majesty; John Jay, Sec. For. Aff., New York; M. Cadet de Vaux, of Paris; M. Cadet, of Paris; John Lowell, Judge of Appeals, Boston; Sir Ed. Newenham, Bt., The Duke of Richmond, Dr. John Coackly [sic] Letsom, of London; Robt. Barclay, of London; Dr. Wm. Thornton, of London, and Dr. Geo. Spence, of Jamaica, were elected members.

Dr. And. Duncan, of Edinburgh, sent an elegant copy of "Medical Commentaries," in ten volumes.

1787. Feb. 2. (16 present.)

Scantling and paving accounts, £15 $\cdot \cdot 1 \cdot \cdot 2$, presented; a tie vote, and the subject laid over.

The Committee on Subscriptions were invested with power to carry on the building, being accountable for the expenses; the accounts to be first passed on by the Society.

Lord Stanhope acknowledged the certificate of membership sent to his late father, Lord Mahon.

Wm. Bradford, Dr. Foulke and Mr. Patterson were ap-

pointed a Committee on a Petition for a change in some clauses of the Act of Incorporation.

Secretaries directed to conduct the ceremonies of the Annual Oration in the Hall of the University, Jan. 28th.

Ben. Vaughan, of London, son of Samuel Vaughan, of Philadelphia, sends £10 for the building, and offers his services in the matter of Vol. II of the Trans.

1787. Feb. 16. (22 present.)

Hopkinson read a letter from Rittenhouse to him (although Rittenhouse was present), "containing some curious observations on the generation of clouds."

A paper from John Churchman, of Nottingham, gave "a new theory of the variation of the magnetic needle founded on the hypothesis of two bodies (besides the moon) revolving round the earth: one in the plane of a parallel circle near the north pole, and the other in the plain of a like circle near the south pole." Ewing, Rittenhouse, Hoge and Patterson were appointed a committee to receive from Churchman additional illustrations on a globe.

The account of £15 $\cdot \cdot 1 \cdot \cdot 2$ (see Feb. 2) was ordered, by a more than three-fourths vote, paid out of the funds of the Society, and not out of the building funds.

Time of oration ordered to be 7 o'clock, P. M.

1787. Feb. 21.

Met and proceeded to the Hall of the University, where Rev^d Dr. Sam. Smith, V. P. of the College of New Jersey delivered the annual oration, "On the causes of the diversity of figure & complexion in the human species."

Met again, to return thanks and ask for a copy for publication; which was granted.

1787. March 2. (20 present.)

The Committee on Churchman's method for discovering the longitude by means of the Magnetic Variation reported;

That, in their opinion, "his attempt to account for the variation upon the groundless hypothesis of two moons, revolving round the poles of the earth, at a small distance from them," was "exceedingly whimsical;" as "contradictory of the fundamental principles of attraction," &c.

They then described his postulates, and say:

"We are of opinion that all these suppositions are without foundation, and not only unsupported by observations, but also inconsistent with the observations made by the most skillful astronomers in every part of the globe, when furnished with the best instruments; & that the calculation which he proposes fails to give the longitude required."

"Upon the whole we do not find a single idea in his communication, where he ventures to differ from the astronomers who have written upon the subject, but what appears to us either contradictory to the known principles of philosophy and impossible in the nature of things, or else inconsistent with the facts that have been observed and established by

others."

S. Vaughau, Sr., Pettitt [sic], and Hutchinson were ap-

pointed to invest Mr. Magellan's 200 guineas.

"Expenses attending the annual oration," £6 ·· 11 ·· 6, ordered paid.—Secretaries ordered to "agree with Mr. Aitken or some other printer, on the best terms they can, for the printing of 1800 copies of Dr. Smith's oration;" 1000 in pamphlets, and 800 in reserved sheets for the next volume of Transactions (Vol. III).

Special meeting ordered for March 9.

1787. March 9. (6 present.)

"Part of Dr. Smith's oration was read ——" [This is all the minute of this meeting.]

1787. March 16. (13 present.)

Dr. Foulk requested to deliver the next annual oration.

Committee on Petition to the Assembly reported adversely to "the expediency of troubling the House at present."

Thanks to Mr. Burgsdorf ordered, for his communication on the subject of Vegetation, and that it be offered to the Columbian Magazine.

Secretaries ordered to write to Mr. Hazard in New York to solicit building subscriptions.

1787. April 6. (9 present.)

James Bringhurst added to the Building Committee.

Mr. Daneufville's letter read, describing a manufactory of white glass near Albany, and specimens exhibited.

1787. April 20. (16 present.)

Mr. John Churchman sent in a revised and corrected copy of his paper, substituting two revolving magnetic poles for his two moons.

The Investing Committee reported that they had purchased with Magellan's 200 guineas a ground rent of £33 · 12 per annum, from John Dickinson and Mary, his wife, and Henry Shriver.

It was resolved to purchase a gold plate of the value of 10 guineas to be conferred as a premium; the resolution to be engrossed on the back of the deed of conveyance, signed and sealed.

Account of Clem. Biddle for drawing the deed for ground rent, £4, was ordered paid.

S. Vaughan, Dr. Morris and Dr. Hutchinson were appointed to issue proposals for leasing the cellar in Fifth street for a term of years.

Proposal of Mr. Dilley, London, to reprint Transactions Vol. I, if the Society "take 200 copies at the paper & print price." Agreed to, on condition that Mr. Dillon agreed to to take 150 copies of Vol. II in part payment.

1787. May 4 ["forgotten to be transcribed in its proper place" *]. (10 present.)

Letter from Secretaries of "the Manchester Society," with two volumes of Transactions.

Two letters from John Whitehurst, London, with a copy of his "Enquiry into the original state and formation of the earth, 2^d edition."

Hutton's tracts presented.

[°] These minutes are found following those of the next meeting.

Letter from Mr. Herschel, with a catalogue of 1000 nebulæ; directed to Franklin, and presented by him.

Agreement with Dilley rescinded, as it interfered with the Society's engagements with Aitkin [sic].

Letter from Hopkinson to Franklin, "with drawing and description of a Chronometer on a new & very simple construction."

Drawing and description of a nautilus or newly invented ferry-boat, from Eneas Lamout of Baltimore, candidate for the Magellan premium.

Committee on Churchman's first paper authorized to give him a copy of their report, when he returns said paper.

Committee on the sale of lot in Arch street ordered to invite proposals May 19th, at noon.

1787. May 18. (19 present.)

Committee on the Society's lott [sic] in Arch street restricted to a sale price of £600.

Subscriptions ordered to be opened for £400, towards carrying on the building in Fifth street, on the following conditions:

- 1. Subscriptions for one or more shares of £5 each.
- 2. A lease of the cellars to be made to the subscribers, when £400 were subscribed for 20 years (to commence when the cellars were fit for use), "subject to restrictions with advertized conditions."
- 3. Possession of cellars to continue after 20 years until the refunding of the £400.

Agreed that in case the subscription list be not filled up in the course of one week the committee should be at liberty "to make the offer to any person they choose."

Dr. Smith allowed 30 copies of his oration.

Dr. Franklin presented, from President Adams, a copy of his "Defence of the Constitution of the Government of the United States." Thanks returned.

1787. June 15. (8 present.)

Janitor's bill (Rediger) £3 ·· 17 ·· 6.

Dunlap & Claypole's bill for printing 300 admission cards, £3.

Symon & Glass' bill, 15 reams of paper, £39 · 7 · 6.

Levis' bill for 12 reams of paper £16.

Rev. Temple Henry Croker's letter to Dr. Franklin, "relating a number of experiments on the dipping needle." Read.

Ordered, £10 ·· 10 refunded to Robt. Aitken who had paid that sum as subscription to Building Fund for Mr. Hutchins—seeing that Mr. Hutchins' subscription was to be in shape of copies of his map of Pennsylvania, at a guinea apiece—when Mr. Hutchins shall have delivered six maps to the Society.

[END OF MS. VOL. 1774 TO 1787.]

1787. July 20. (22 present; among them Mr. Madeson [sic], of Virginia, and Dr. Williamson, of N. Carolina.)

New Members Elected.—Sir Joseph Banks, John Hunter, and four others in England; with six Philadelphians.

Committee to inquire about the Library Company's proposals relative to the Society's lot and intended hall in the State House yard: J. B. Smith, Dr. Ruston, Messrs. Hoge and Fox, Dr. Foulke and Dr. Magaw.

1787. August 17. (12 present.)

Letter from Henry Laurens, of South Carolina, thanking the Society for his election, and giving £50 for the Building (draught on Mannings & Vaughan, London).

John Vaughan announces a donation for the Building of 10 guineas from his brother, Wm. Vaughan, of London.

Report of Committee on "the Lot & cellars near the State House" reported a conference with the Directors of the Library Company, to whom they had proposed a joint finishing and occupying of the building on terms of equality and mutual convenience; or, a sale to the company at the price of past expenditures for the cellars and value of the privilege of occupying the ground. The Directors required time for deliberation.

It was resolved to inform the Company that the Society could not tell the exact cost of the cellars, nor was prepared for any definite agreement; and that the Building Committee should make up its accounts.

A memorial from John Churchman was presented, and a reply ordered that the Committee were already instructed.

1787. Sep. 7. (14 present.)

Hutchinson's motion for a Committee with power to treat, sell and transfer to the Library Company, was, on motion of Dr. Magaw, postponed to be a special order for September 14, and the Building Committee was requested again to hand in their accounts.

[There are no minutes of any meeting on September 14, but on the following Tuesday evening there was a meeting at *Franklin's house*, where no doubt other meetings were held.]

1787. Sep. 18. (19 present, Franklin presiding.)

Letter from Patrick Wilson, Prof. Astronomy, Coll. Glasgow, to Franklin, "containing a general account of the construction of Mr. Hirchel's [sic] Forty Feet Telescope, of his having lately mounted it, and discovered two Satellites revolving round the Planet Georgium Sidus, or Hirchell. [sic]. There are some other curious matters mentioned in the communication."

Letter of L. S. of New Jersey to Franklin describing a chimney plastered with mortar mixed with salt, that never took fire, although never swept. "The author of the letter requests that this matter may be communicated to the Public."

Mr. Vaughan produced his account of subscriptions. [No details—nor any sum mentioned.]

Hutchinson's motion of September 7th was argued and negatived.

Dr. Ruston added to the Building Committee, vice Dr. Parke, resigned.

Building Committee ordered "to proceed with all convenient despatch to have the walls carried up & covered in."

The Society adjourned "to hold their next stated meeting at the President's House agreeably to his Invitation." [Franklin was in feeble health.]

1787. Sep. 21. (9 present; Franklin presiding.)

Dissertation by Dr. Wistar (a new member) "Experiments upon evaporation in cold air."

D'Aubenton's letter of thanks for election, dated Paris, February 15th, 1787, was received at this meeting, showing the slow rate of transatlantic communication.

Mons. Le Comte de Buffon, also sends his letter of thanks for election and certificate of membership.

Dissertation (for Magellanic Premium) "On a Spring Block, to assist a vessel in sailing," motto annexed, Vires acquirit cedendo.

Another (for Magellanic Premium) "On the Discovery of the means of finding Longitude."

1787. Oct. 5. (15 present; Franklin presiding.)

Three French medical papers by Dr. Gashlier, referred to Drs. Jones, Foulke and Griffith.

A large thigh bone found near Woodbury creek in Glocester [sic] county, N. J. [perhaps a Hadrosaurus], was described in a paper by Mr. Matlack and Dr. Wistar; who, with Dr. Rodgers, were requested to search for the missing part of the skeleton.

"A letter from M^{r.} Patterson to D^{r.} Rush, accounting, on the principles of Hydrostaticks, for that phenomenon first

observed by D^{r.} Franklin, when a vessel containing oil & water is put in motion,—was presented & read."

"A treatise on some part of the theory of the Planets,"

was received from Dr. Minto, of Long Island.

Lord Napier's portrait, a print, was presented by the Earl of Buchan.

An essay on "Animal Heat" for the Magellanic premium; with a letter to Franklin.

Books were sent by their authors: Dr. Jean Ingenhauz and M. le Roy.

Geo. Hinkead's account for recording a deed £1, ordered paid. Also Dunlap & Claypool, "account for advertizing in their paper, for a considerable time, the disposal of the cellars," £3 \cdot 1.

1787. Oct. 19. (14 present; Franklin presiding.)

Indian spear stones "lately found deposited in the mud near a river," with a letter "containing various speculations & conjectures concerning" them, were exhibited, as a gift to the Society, from Mr. Beale Boardley of Maryland.

"On the method of cultivating cotton in Virginia;" let-

ter from Richard P. Barton.

A letter from M. le Comte Morozza Cassitane, Major du regiment aux gardes, Membre de la Société Italiana—read.

"On the tides in the Bay of Fundy;" letter from Mr. Annam.

Among the books—Abhandlungen der Böhmischen Gesellschaft, and Memoires del'Academie des Sciences de Turin.

1787. Nov. 2. (16 present.)

"On the variation of the magnetic needle;" for the Ma-

gellanic premium.

Franklin's proposal to lend the Society money to complete the building, is here minuted but crossed out with black lines and erased with the note ("The following introduced too soon").

Committee to inquire into the state of the funds, "in order that proper measures may be taken to discharge the debts of the Society:"— Dr. Andrews and Mr. John Vaughan.

Franklin's second subscription of £100, and offer of a "loan of what money may be requisite to raise & cover the building upon legal interest"—reported, the thanks of the Society voted, and the offer accepted, by the appointment of Dr. White and Samuel Vaughan, as a Committee to confer with Franklin on the "proper mode of giving security for his advances."

"After the interview with the President" (who was apparently in another room of his house), the Committee reported, & it was resolved to give Franklin a Bond not exceeding £500, payable in one year, with legal interest; and a Mortgage "on the lot of land bought by the Society of Fra. Hopkinson, Esq;" also "of the rent of the cellars & such part of the building as may be let by the Society: until the said advance & interest be fully paid;" and, meanwhile, a signed & sealed copy of the resolutions delivered to Franklin.

"The President now present."

A Committee to draw up a petition to the General Assembly of the State for a sufficient grant of unappropriated land "for the purpose of enabling the Society to prosecute their views in promoting useful knowledge":—Dr. White, Dr. Andrews and Mr. Pettitt.

1787. Nov. 16. (6 present; Franklin presiding.)

Secretaries ordered to get Clem. Biddle to prepare the bond and mortgage.

Draft of petition read by John Vaughan.

1787. Dec. 7. (7 present; Franklin presiding.)

Books presented by authors: Belin de Villenouve [sic], Moreau de St. Mery, M. Grevel, Drawings of the lighthouse at Plymouth, by Mr. Edmonstone, &c.

Auditing and Settling Committee on Treasurer's and Building accounts: Rittenhouse and Patterson.

"Public advertisement of the time appointed for the adjudication of M. Magellan's annual premium," ordered.

MEETING OF OFFICERS AND COUNCIL.

1787. Dec. 18. (11 present; Franklin presiding.)

"The several pieces referred to the consideration of the Committee appointed at a late meeting, were again read."

The essay on Animal Heat referred back for report at next meeting.

Reports of Committee on mechanical prize essays read and adopted.

1787. Dec. 21. (14 present; Franklin presiding.)

Essay on "Animal Heat." The Board of Officers and Council reported that it was "very ingenious" but not within the scope of the Magellan premium.

"Invention of the Spring Block."

The Board reported that "it appeared ingenious, and plausible in theory," but that the premium should be withheld until the author "shall substantiate its usefulness... by one or more adequate & satisfactory experiments; which they hope to receive from him at some subsequent meeting." It was then voted that in case of such proof of utility being given the invention should take the premium. "Nevertheless, the Society agreeably to the express letter of the conditions" of the award, felt obliged to "have a vote taken on the general question, as contained in the 6th Article of said conditions." The vote on the Spring Block resulted in a negative.

The Secretaries were then instructed, to publish the "Society's proceedings and determination," in such cases.

A vote of thanks was passed to Sam. Vaughan "for his disinterested & successful attention to their [the Society's] interests." Franklin then presented the thanks of the Society to Mr. Vaughan.

Auditing Committee reported a balance of £14 $\cdot \cdot 18 \cdot \cdot 11$ in the hands of the Treasurer.

Aitkin's bill for binding two vols. of Transactions £1 \cdot 2 \cdot 6, ordered paid.

A list of outstanding dues presented. Treasurer requested to collect and "pay the same to Mr. Rob. Aitkin in part of his demand."

1788. Jan. 4. (8 present; Franklin presiding.)

Drawing of a Marine Chevaux-de-frize by Robert Erskine, F. R. S., with description, presented by Franklin. Drawing of "a Boat to sail on Ice used in some of the northern countries of Europe."

Print of a Nouveau Quartier de Reduction and pamphlet on the use of the Quadrant, by M. le B... del'or, Prof. Math., Paris.

ANNUAL ELECTION HELD.

President—Franklin.

Vice Presidents-Ewing, White, Rittenhouse.

Secretaries-Hutchinson, Patterson, Magaw, Foulke.

Council-Ingersol, Blackwell, Kuhn, Pettitt.

Treasurer—Hopkinson.

Curators—Duffield, Bradford, Peale (C. W.).

1788. Jan. 18. (13 present.)

Committee to let "such parts of the Phil. Hall as the Society can spare:"—Clifford, Hutchinson, J. Vaughan.

Committee for carrying on the building: Hutchinson and J. Vaughan added to it. "The said Committee . . . to consider of the objections mentioned in a letter . . . from the Street Commissioners, respecting the stone steps in the front of the hall, and to take such order as advisable."

1788. Feby 1. (5 present.)

"After some conversation, adjourned."

1788. Feby 15. (4 present.)

Geo. Wall, Jr., exhibited a "Trigonometer," for the making and vending of which he had obtained a patent

from the Legislature of this State. Description and drawings.

1788. March 7. (11 present; Franklin presiding.)

"Special circumstances" considered, the Annual Oration was deferred to November.

"On the Notation of Music by the common alphabetical characters," by Mr. Patterson.

Certificates of membership ordered "to pass through the hands of the Treasurer," before delivery.

Labels for books belonging to the Society ordered, for Mr. Patterson [Librarian].

Dunlap & Claypoole's bill for printing Magellanic Conditions, 150 copies, and for advertising annual election, £1.. $17 \cdot 6$, ordered paid.

"Extreme embarassment" caused Mr. Glass, the paper-maker, by the Society's debt to him, reported by Mr. Atkin, the printer. Dr. Ruston and Dr. Magaw directed to see if the Treasurer held any funds, and if dues could not be collected. Meanwhile Franklin offers to settle Glass' account, and be repaid from such collections.

1788. March 21. (5 present; Franklin, President.)

1788. April 5. (6 present; Franklin presiding.)

Steamboat.—Mr. Barton presented a pamphlet by James Rumsey, of Berkeley county, Virginia, styled "A plan wherein the power of steam is fully shown by a new constructed machine for propelling boats or vessels."

1788. April 18. (18 present; Franklin presiding.)

John Hunter's works presented, with a letter from himself. Thanks voted.

Model, draft and explanation of an improved Steamboiler, offered for the "annual [Magellanic] premium," under the signature of X. Y.

Sir Joseph Banks returned thanks for election, and communicated "a very curious account of pure Iron in a metalic [sic] state, lately found in South America." Mr. Wm. Baker sent his thanks also.

Rev^d Dr. Robert Davidson, of Carlisle, communicated by letter a drawing and description of a "Calf, a monstrous production."

Letters from Dilly, of London, and Aitken, of Philadelphia, respecting the printing of Transactions, Vol. II.

James Rumsey, of Virginia, sent by letter, drawings and descriptions of—

- 1. An improved Boiler for a Steam-engine.
- 2. An improvement in Dr. Barker's Grist-mill.
- 3. An improvement in the Saw-mill.
- 4. An improvement in Raising Water by means of a steam engine.

Henry Voight communicated by letter drawings and descriptions of various improvements in boilers for generating steam.

Committee on these papers: Ewing, Rittenhouse, Patterson.

A motion "to lower the rate of Admission money of newly-elected resident members, and also the annual payments or contributions of members," from next January 1st, onwards, was postponed to the next meeting.

1788. May 2. (8 present; Franklin presiding.)

Drawings and description of an improved Steam-boiler, for the M. P. received. Signature, "Retrograde."

The Committee on Inventions reported, that Rumsey & Voight's principle of increasing the steam-generating surface and diminishing the quantity of water exposed to the action of the fire, appears just, but the best application must be matter of experiment. And that Rumsey's other inventions were "ingenious in theory, and well deserve a full trial."

Benjamin Lindon, of Chesterfield, N. J., communicated, by letter, a description of an improved Universal Dial.

Dr. Greenway, of Virginia, wrote, describing the Golden Cassia, or Peacock flower.

1788. May 16. (8 present; Franklin presiding.)

Henry Crocker sent his pamphlet on Magnetism to Franklin.

Matthew Carey, through Mr. Barton, Le Blond's Elemens de fortification; Scaliger de subtilitate; Pseudofridericus Johannis Hildebrandi, &c.; and Geo. Fabricii, Rom. Antiq. monumenta.

1788. June 20. (6 present; Franklin presiding.)

Matthew Carey presented a short-hand Bible, and Forme du Government de Suede.

Franklin presented "a specimen of the ancient shorthand;" an engraving of the Duke de Chaulnes' improvement of Franklin's Electric Kite; and F. A. Eckhardt's description of his Canal Dredger; proposals of the Society for the Encouragement of Arts, &c., of a premium for an invariable standard of Weights and Measures; a description of the Chinese method of making large sheets of Paper; and an account of Ingenhautz's experiments on the heat-conducting power of Metals, under Franklin's direction.

An essay on "a Universal Language" was offered for the Magellanic premium.

Daniel Byrnes' paper on an improvement for finding the Longitude by Lunar Observations, was read; and Ewing, Rittenhouse and Patterson appointed to test his instrument invented for the purpose.

Rediger's (Janitor's) account for £5 · 4 · 18, approved.

1788. July 18. (14 present.)

Franklin being "too much indisposed to attend," Dr. Duffield took the chair.

The Treasurer was authorized to exchange the papermoney in his hands on the most advantageous terms.

PROC. AMER. PHILOS. SOC. I. XI. PRINTED OCTOBER 22, 1883.

The Building Committee were instructed to inform the Street Commissioners that the Society was willing to enter an amicable suit, concerning the Fifth street front door steps, "presumed by the Commissioners to rise too high."

Also to be "a Committee of Ways & Means to consider of a method regularly to pay the interest as it shall become due upon the sums of money borrowed of the President."

Ordered, that a notice be inserted in the regular advertisement of the meetings, that the consideration and passing of laws would constitute part of the business.

1788. August 15. (10 present; Franklin presiding.)

Two new Hygrometers from Nairne, of London, with a letter. One was ordered to be deposited with Mr. Legeaux for use, the observations to be published in his Meteorological Observations column in the *Columbian Magazine*.

A letter from Daniel Byrnes, "that he had constructed an instrument by which one person may take at one observation the distance of the sun and moon & the altitude of one of them." Referred to the former committee on a Byrnes instrument.

Franklin presented books, &c., from the Patriotic Society at Milan, sent him by its Secretary, Carlo Amoretti, for the purpose:—Spallanzani's Opuscules; Experiences....Generation; sur la Digestion; lettres à Lucchesini.

Also, from M. Campomanes, of Madrid:—Fastos Ac. R. de la Ilist., &c., Genesii opera; Velasquez's Medals, 1752; Oracions, 1759.

Also, Memoires of the Soc. Italiana, Verona; Mitterpager's Elementi, Milan, 1784; Carminati's Recherche, Milan, 1785; Atti Soc. Pat. Milan, duplicate; Bruni's Portatura di Gelsi, Milan, &c.

"Through some mistake, or derangement with respect to conveyance, the books and papers from Milan were not received 'till very lately, although sent above two years ago, from Italy."—Secretaries ordered "to take the earliest opportunity" to return thanks and explain; and a copy of Vol. II Trans. of the American Philosophical Society to the S. P. Milan, through Dr. Rush.

John Anderson's Institutes of Physics, Glasgow, were received.

"The Corresponding Secretaries are desired to make particular report of all the answers to foreign communications & letters which they have already written, and sent, within the present and immediate preceding year. Meanwhile the Society expect, that as much dispatch as possible be observed, with regard to all letters at present requiring answers."

1788. Sep. 19. (10 present; Franklin presiding.)

A Wheel-boat, proposed to facilitate the navigation of North America; drawing and description; for the Magellanic premium.

On the language of Signals; a duplicate of a communication formerly received from a candidate for the premium.

Mandrillon's "Fragmens de Politique et de Litterature," with his letter, from Amsterdam.

Also: Recherches.... sur les maladies.... de St. Dominique.... pub. par le Cercle des Philadelphes du Cap François, from the Society;—Campomanes' Dict. Español;—Priestley's Experiments, &c., Vol. III; and "elegant copperplate engravings of a Nouvel Hotel Dieu," by M. le Roy of Paris.

1788. Oct. 3. (8 present.)

Mr. Matthias Barton, of Lancaster, Pa., sent: "Shells & nuts &c found at the depth of 7 or 8 feet in the body of a rock, upon the river Susquehanna," opposite Sunbury. Great quantities of petrefactions are daily found in the high rocky hill;—Indian darts, frequently found in the fields near Lancaster;—Water Birch bark, specimens;—Bear's

gut, when first cleaned, resembling a silk ribbon, and applied by the Indians to different uses.

1788. Oct. 17. (12 present; Franklin presiding.)

M. de Marbois sent from Port au Prince a copy of his Etat des Finances de St. Dominique.

Jas. B. Pleasant's, of Montgomery county, Pa., wished the Society's opinion on his proposed Baloons [sic] of metal, entirely exhausted.

John Napier's life and writings, from Earl Buchan;—and D^{r.} Persival's Essays, from the author.

The Building Committee were ordered to confer with "The Masonic Body in this City, or their Representatives, concerning their occupying, for a term of years, such part as the Philos. Soc. can conveniently spare"

Barton and Ellicott made a Committee to review the Constitution and Laws of the Society.

Treasurer authorized to employ a collector, at an allowance of $\pounds 5$ per centum on the moneys paid in to the Treasurer.

1788. Nov. 7. (15 present; Franklin presiding.)

Franklin directed to present to Magellan, Vols. I, II Transactions American Philosophical Society, and future volumes as published.

Swediaur's Observations on Venereal Complaints, from the author, through Ebenezer Hazzard, New York;—Ingenhausz's pamphlet on Atmospheric Electricity.

Report of Committee on Constitution and Laws; laid on the table.

Magellanic prize essays were referred "to the twelve counsellors and other officers."

Committee to confer with the Masons were ordered to inform them that the Act of Assembly would not permit "any part of building to be occupied in the manner that the Masonic Gentlemen have proposed."

Hutchinson and Rittenhouse were made a Committee to sell the lot in Arch street.

1788. Nov. 21. (13 present; Franklin presiding.)

"Looming" observed near Presque Isle, described in a letter from And. Ellicott, of Pittsburgh, to Day. Rittenhouse.

Franklin's letter (from Passy, September 22, 1782) to the Abbé Soulavie, "containing a new & ingenious theory of the formation of the Earth,"—a copy of it was laid before the Society by Franklin.

De Warville's (J. P. Brissot) book on the relative situation of France and the United States, received from the author.

Building Committee authorized to treat with the Library Company of Philadelphia about leasing a part of the building to the Library Company.

The Premium Committee reported that (at Franklin's house) they had examined the "Dissertations & Pieces:"—Wheel-boat; Nautilus; Steam engine by "Retrogade;" steam engine by "X, Y;" finding longitude; and Magnetical globe—and submitted the final adjudication thereon to the Society. They reported an essay in French "For the improving of signs & finding out an universal language," which must be translated "before they can form a proper judgment concerning it."

Dr. Foulke's annual oration was ordered for "some time during the next session of the General Assembly, in the month of February."

The report of the Committee to review the law of membership, laid on the table, was read again. Also their report on Contributions was read finally.

Membership law, as amended and passed:-

"A law to alter the Second Section of the Laws," &c.

"Whereas, the mode of electing members . . , . found attended with many inconveniences;

Be it therefore enacted, and it is hereby enacted, that from and after the passing of this law, the Flection of Members of the said Society, shall be

by Ballot, of at least thirteen Members duly qualified to vote, and which number shall be sufficient, on the third Friday in the months of January, April, July and October respectively; and at such other stated or ordinary meetings of the Society, as the Members then convened may appoint. But previously to the holding of any Election of new Members, the sitting or attending Secretaries for the time being, or one of them, shall, on the day preceding the intended Election, send to the house, or dwelling place of each member residing within the city of Philadelphia, a written or printed Notification, of the time & place when and where such Election shall be proposed to be held.

And any member may, at any meeting of the Society, propose such person or persons as he may think proper, to be a Member, or Members thereof. But no person shall be ballotted [sic] for, unless his name, together with the name or names of the Member or Members who propose him, shall have been fixed up by the Secretaries, for View of the Society, at the two meetings immediately preceding the time of Election. Nor shall any person be deemed duly elected, unless three-fourths of the Votes of all the Members present be in his favour. Every person so elected shall be entitled to all the Rights and privileges of the Society; any thing in any former law of the said Society, to the contrary notwithstanding.

Enacted, this 21st Day of Novber 1788

Another law was then amended and passed:—

"A law to alter the law entitled 'A law to increase the annual Subscriptions of the Members' &c.

"Whereas, by a law enacted 6^{th} Jan. 1786 four dollars annually and whereas it is found expedient that the annual contribution be lessened;

"Be it enacted that the annual contribution be two dollars, and no more."

1788. Dec. 5. (11 present; Franklin presiding.)

Premium award laid over.

1788. Dec. 19. (13 present; Franklin presiding.)

Rittenhouse and Patterson to review Treasurer's accounts and settle.

Translation of the French essay read and laid over.

A short paper on Facts and Experiments by the author of the Spring Block prize essay, read.

Certificate of G. Ludlam, and J. Pollock ac-

quainted with the nature and construction of Sea Vessels experimented with the Spring Block, applied to a small pleasure boat "approved of the principles, and are of the opinion that if the Springs can be properly applied, they will increase the active elastic impetus of a Vessel's rigging, & therefore assist in sailing, especially in turning to windward."

1789. Jan'y 2. (12 present; Franklin presiding.)

ANNUAL ELECTION OF OFFICERS.

President-Franklin.

Vice Presidents—John Ewing, D.D., Wm. White, D.D., Dav. Rittenhouse.

Treasurer—Hopkinson.

Secretaries—Hutchinson, Patterson, Magaw, J. Vaughan. Counsellors—Pettit (C.); Rush, Jones, M.D., G. Duffield, D.D.

Curators—S. Duffield, Wm. Bradford, Charles W. Peale. Rittenhouse and Hutchinson, Committee to agree finally with Jos. Ogleby and Math. Sadler (who proposed to buy the Arch street lot) on the best terms.

1789. Jan'y 16. (19 present.)

Auditing Committee reported £3 $\cdot \cdot 13 \cdot \cdot 5$ specie, and £9 $\cdot \cdot 17 \cdot \cdot 6$, paper, balance due the Society in the hands of the Treasurer.

Rittenhouse's letter to Patterson on a number of curious observations on the regularity of the motions of the heavenly bodies, read.

Humphrey's (Jos.) letter to Rittenhouse, with a drawing of a Regulator of Pendulums, read.

Arch Street Lot Committee reported that they had agreed finally with Ogleby and Sadler, who agree to pay £525, "or do carpenters work in the building on the State House Square to the amount . . . at their opinion; the Society

... to indemnify them for all encumbrances on the said Lot & to convey it to them."

Messrs. Clifford, Rittenhouse, and Fox and Drs. Ruston and Hutchinson were then appointed a Committee to treat with the Directors of the Library Company about renting part of the building. The President was requested to inform the Directors by letters "that the Committee have full powers.... to receive any proposals.... and finally to agree with them on the subject."

An election of 24 new members then took place, among whom were David Reddick of the Supreme Council of Pennsylvania; the Spanish Ambassador de Gardoqui; the Rector of the Swedish Church, Dr. Collin; Chief Justice Brearly of New Jersey; the French Consul at New York, Crevecœur; the Secretary of the Royal Society, Dr. Blagden; the famous Frieslander, Peter Camper: the German Minister of Mines, Von Heynitz; "Benj. Smith Barton, M.D., at present in Edinburgh;" the "President of Philadelphes, Cap François," Arthand; Moreau de St. Méry, Superieur de Cap François; the President of the Spanish of History, Miguel de Flores; Dr. Charles Stuart of Edinburgh; the late Attorney-General of the United States, Patterson; Dr. Minto, Prof. Math. at Princeton: Chas. Pinckney, S. C.; Dr. Ashbel Green (who had left Princeton College to take the charge of the First Second Presbyterian Church in Philadelphia); and Brissot de Warville.

1789. Feb'y 6. (13 present; Franklin presiding.)

The Treasurer was ordered to pay the President £25, "which he was pleased some time ago to advance to Mr. Rob. Aitkin, in the Society's behalf in order to discharge the amount that had been presented by Mr. Glass the paper maker."

A letter from Mr. Aitkin requesting the correction of the proof sheets of the reprint of Vol. Transactions. Franklin had already answered the letter.

A letter from the Princess of Dashkaw [sic], President of the Imperial Academy of Sciences at St. Petersburg, August 30, to Franklin, thanking him for a copy of the Transactions, "in the most polite terms for this mark of his attention."

Poulson's account for printing 1000 labels and 500 blank notices (35 shil.) was passed.

The Building Committee reported a contract made "with gentlemen for supplying the necessary scantling for the building at 12 months' credit."

Dr. Foulke's oration, now ready, was made the order for February 27, in the evening, at the Hall of the University.

1789. Feb'y 20. (15 present; Franklin presiding.)

A letter from Josh. Humphrey, on "correct scale beams," was read.

An extract from the minutes of the Directors of the Library Company was read. The Company had considered a letter from Franklin, and appointed a Committee "to wait on him and thank him for his friendly attentions. They request him to inform the Committee of the Philosophical Society that they are sensible of their friendly overtures; but it would not be convenient to remove the Library from the building which they occupy at present."

A letter from Don Diego de Garda acknowledging the receipt of his certificate of membership "expressed in very polite terms his sense of the honour," &c., and that "he will be happy if on any occasion he can contribute to promote the views of so laudable an institution."

A collection of curious petrifactions and other fossils found in different parts of the Western countries [sic] was presented through Mr. Patterson by Capt. Wm. Ferguson, lately from Post Vincennes.

Observations on the Progress of Population, and the probability of the duration of human life in this country, by Mr. Wm. Barton, in a letter to Rittenhouse, were read.

1789. Feb'y 27.

The Society met and proceeded to the Hall of the University, where Dr. Foulke delivered the annual oration; after which the Society retired to a room and passed a vote of thanks.

Oration "On the State, Stages and Chances of the human constitution and life, and particularly supporting the chances of Longevity in North America."

1789. March 6. (16 present; Franklin presiding.)

Petrified shells found near Ringwood iron works, New Jersey, from Rev^d Mr. Becson, presented.*

Cox, Minto, Brearly, B. Rittenhouse acknowledged by letter the receipt of certificate of membership, "and in exceedingly polite terms, expressed their sense of the honor," &c.

Barton, Fox and J. Vaughan, appointed a Committee to treat with the Trustees of the University about renting to them the rooms of the building, reserving to the Society two south rooms.

A letter from Peter Duponceau presenting 22 Vols. of Velly, Villaret and Garnier's History of France; Pope's Essay on Man in five languages; Histoire du Commerce, 2 Vols.; Locke's Essay on Education in Russian, by Popowski; Military Ordinances of the King of Spain, 4 Vols.; Life of Don Joas de Castro, Fourth Viceroy of the Indies ("the best historian in the Portuguese language"); Select Extracts from Young's Night Thoughts in Portuguese; State Papers on the Restoration of the French Parliament in 1774; A Collection of Low Dutch Pamphlets on the late commotions in the Netherlands, 1 Vol.; Dictionary of French and Portuguese 1 Vol.; Œuvres de Thomas, de l'Acad. Française, 2 Vols. Thanks voted.

Adjourned until Wednesday evening next at 6 o'clock.

^{*} In the next line the name is spelled Beeson.

1789. March 11. (17 present; Franklin presiding.)

Report of Committees of the Society and of the University read, "particularly considered and agreed to."

[The report is copied, from which it appears that]

Dr. James Hutchinson, Mr. Kuhl, & General Irvine, Committee on the part of the University; Messrs Vaughan, Fox & Barton, Committee on the part of the American Philosophical Society met at the University ["in 4th Street" written in lead pencil] & the Univ. Com. proposed to lease the Society's Hall, (except two south rooms on the Second floor,) with free use of the Stairs, passages & cellars, for five years, at an annual rent of \$\cdot \mathbb{E}85; "the University to provide those materials which the Phil. Soc. have not already contracted for to complete the building & to make it tenantable: the same to be allowed for to the Trustees out of the rent as it becomes due; the rent to commence as soon as the house is in tenantable order; the house to be delivered up, at the expiration of the lease, in like order as received, reasonable wear & tear excepted."

Preparation of such a lease was then ordered "under the inspection of the Committees."

James Bringhurst was added to the Building Committee. Aitkin's letter of inquiry about any desired alterations in the six first sheets of Vol. I, Transactions, first edition, referred to the Secretaries. "As the work is not reprinted by order of the Society, the terms do not depend on them."

1789. March 20. (9 present.)

Dr. George Buchanan, of Baltimore, sent Quesnay de Beaurepaire's Account of the Academy of Sciences and Belles Lettres established by him at Richmond, in Virginia. [No further notice of such an Academy appears subsequently in the history, or the correspondence of the Society.]

A dissertation Sur le moyen de conserver le papier de la piquere des insectes, was received from M. Arthaud, Secretary of the Circle des Philadelphes at Cap François, November 21, 1788. With a list of premiums offered by the Circle.

1789. April 3. (21 present; "the President being absent, Dr. White took the chair.")

"A discourse or dissertation was read by the Rev. Dr.

Collin; introduced by respectful attentions to this Society in regard particularly to his having been lately chosen a member;" "On those enquiries in Natural Philosophy which at present are most beneficial to the United States." Thanks yoted.

The Committee's lease was read, considered, and "the Seal of this Corporation" ordered to be affixed.

Ed. Pole offered a model of a Silk Reel; accepted; thanks voted.

1789. April 17. (21 present; Franklin presiding.)

A memoir "On the effects of heat in conducting the electric fluid & explaining the phenomena of thunder, the Aurora borealis, &c.," by the late Wm. Henry of Lancaster, was read.

The Medical Society of New Haven county sent their "Cases and Observations," and desired exchange.

Mr. Le Gaux sent a series of Meteorological Observations [by him?] with the hygrometer of Mr. de Luc, at Spring Mill, 13 miles from Philadephia, in March; also Remarks on the method of making observations, &c. The Secretaries were ordered to request their continuance.

Hopkinson and Hutchinson were made a Committee to "prepare proper Rules respecting members who are to pay admission fees, or who may be exempted—the distinguishing line is to be fixed."

Election of 9 new members then took place: La Princesse Catharine d' Aschkaw, St. Petersburgh, Russia; Josh. Humphreys, Jr., and John Bleakely, of Philadelphia; John Stephens, Jr., of New Jersey; Dr. Geo. Monro, of Delaware; Dr. Geo. Buchanan, of Baltimore; Jas. Rumsey, of Virginia; Sam. Beach, of Charleston, S. C.; "Winthrop Sargent, Esq., in the New Government, Westward;" and "Don Francis de Gardoqui, and auditor of the Rota for the Crown of Castile at the Court of Rome."

1789. May 1. (8 present.)

Mr. T. Franklin acted in the absence of the Secretaries.

Hopkinson requested part payment of his bond.

The Building Committee (Mr. Clifford) wrote that no funds had been provided to pay for contracts made on materials and workmanship.

Both letters laid over to next meeting [but no record is to be found of what was done about these calls for money until August 21].

1789. May 15. (7 present.)

Mr. Bringhurst took the Chair, in the absence of President and Vice-Presidents.

St. John Crevecœur acknowledged election to membership, and sent a book "made of the roots and barks of different plants and trees, being the first essay of the French inventor." Thanks ordered.

"Petroleum found in Oil Creek which flows into the Allegeney" [sic] was presented in a phial by Mr. Patterson as from Mr. Wm. Turnbul [sic].

1789. June 19. (7 present.)

Arthur Grier's letter from Reading, Pa., to Franklin, dated May 29, 1789, describing "A Machine invented by him for finding the Longitude by an observation of the bearing of any star in the Great Bear was read."

John Churchman's letter to Franklin, "requesting his encouragement & patronage in a voyage which he wishes to make to Baffin's Bay in order to ascertain the true cause of the variation of the needle," was read.

John Christopher Stroebel's letter (Philadelphia), announced himself as the author of the Essay on Heat presented, at a previous meeting, for the annual premium, and requested the seal broken, and his authorship published "to encourage him in his future researches."

1789. July 17. (14 present.)

Election of one new member took place: M. Le Gaux.

Dr. Rittenhouse and Dr. Jones communicated "a particular account of the effects of a flash of lightning, June 7, with drawings."

Franklin's portrait by Peale ordered.

"Resolved, That a portrait of Dr. Franklin, the president of the Society, shall, as speedily as is convenient, be executed, in the best manner,—to be perpetually kept in one of their apartments; and that Dr. Jones & Mr. Rittenhouse shall apply to Mr. Peale to prepare and execute the same."

[The "Martin's Franklin" in possession of the Society, is no doubt a copy made by Mr. Peale according to this order.]

1789. August 21. (10 present.)

Wm. Stroud's letter [no subject mentioned] was referred to the "Committee of the Building."

Jas. Brisbane's letter (S. Car.) containing "calculations & statements by Lunar Observations, applied to the ascertaining of the true Longitude " was read and referred to Rittenhouse and Patterson.

Wynthrop [sic] Sargent, wrote from Marietta, June 25, thanking the Society for his election and communicating "Sundry Meteorological Observations." "It appears that the changes of the weather marked by the Thermometer are sudden and extraordinary." Referred to Rittenhouse, Patterson and Dr. Wistar.

"Said Committee are likewise to fix upon some General Rule to direct the observations of this kind by different persons, so that they may to the better effect be compared together."

[The Society resolves to meet henceforth in the New Building; but does not do so until November 13th.]

Resolved, That the future meetings of the Society shall be in the Philosophical Hall, unless on occasions, when the President's health may allow him to be present; then they shall be held in his house. Respect-

[.] May not? J. P. L.

ing this circumstance, the Secretary who advertises is directed to make due enquiry some day before the times of meeting."

Committee of the Building, ordered "to take legal and efficient steps towards collecting the present outstanding Sums that were subscribed to carry on that work . . . in consequence of $M^{r_{\cdot}}$ Clifford's representations . . . now repeated"

Dr. Wistar's request was granted to be permitted to fix a Rain Gauge on the top of the Philosophical Hall, and to

communicate from time to time the results.

1789. Sep. 18. (10 present; Franklin presiding.)

At the President's house.

Franklin caused to be read Sir Wm. Jones' opinion that the Royal Society could "sue for arrears due by their members;" Minutes Royal Society February 22, 178½.

"Ordered, that the Treasurer be furnished with the same, and be directed to bring suits in the name of the Corporation; where the members refuse paying their arrears."

1789. Oct. 2. (6 present; Franklin presiding.)

The Royal Irish Academy sent their Transactions Vol. I. Ordered, that the Secretaries send in acknowledgment, Transactions American Philosophical Society, Vols. I, II.

Thos. Pole, of London, sent through his brother Ed. Pole, of Philadelphia, a letter of thanks for election, and "a Description & Drawing of a remarkable Tumor which lately occurred in his practise."

Coal, white vitriol, slate, brick, burnt slate, alum, nitre, free stone, and Indian pottery lately found in a bank near Washington, were presented through Franklin by David Reddick, Esq.

P. Young's Essay on the Powers and Mechanisms of Nature, was presented through Franklin by Samuel Mather, of London.

Specimens of the Papyrus of Syracuse were presented by Franklin.

1789. - Oct. 16. (10 present.)

"Observations on a substance found near the Falls of Niagara, called the Spray," by Robt. McCaustin, M.D., in a letter to Dr. Barton.

Baron de Hupsch of Cöln, sent through J. Huiberts, of Baltimore (from Amsterdam), a pamphlet, and offer to exchange curiosities. Ordered to be translated and published.

"This was the evening for the election of new members; but there were not present a sufficient number for that purpose."

1789. Nov. 6. (9 present.)

A Paper on Ventilation (from Franklin's conversations with the author [not named]) read.

A small fish caught in the Delaware, with a drawing of it, presented.

Thermometric Observations at Yorktown, Va., in May, by David Jameson; also Rain Fall from 1773 to 1779; also 1785 and 1786; presented through Dr. Thornton.

Alderman Keene announced to the Society that W. Stroud, the plasterer would bring suit. The Building Committee represented his claim to be unjust; and were ordered "to enter into an amicable suit, to put an end to the business."

Mr. Patterson requested to examine the files and report a list of papers.

"Counsellors & other officers of the Society" were appointed to meet at the Hall on Friday next, at 6 o'clock, P. M., to examine papers from candidates for the annual premium; and report thereon at the next meeting.

1789. Nov. 13. (At the Hall.) (9 councillors and officers.) [First regular meeting in the New Building.]

No new papers; but some standing over from last year, "some of which, in particular, deserve notice and revision."

1789. Nov. 21. (12 present.)

[First regular meeting of the Society in the New Building.]

Report of the Councillors and officers received.

"An instrument for determining the exact distance of any object, by looking at it." A paper communicated through Mr. McKean.

"Direction how to cause a mill to go with ease by means of a large pair of Bellows." In this paper "the method of blowing the bellows is pointed out," by Alex. Lewis, of Colrain [sic] township in Lancaster county.

"The method of raising water twenty feet above the

level" is described in the same paper.

Committee to select from the files and publish papers: Collin, Ewing, Rittenhouse, Barton, Patterson, Hopkinson, Ruston, Bleakley, Hutchinson, Wistar, Thornton, Magaw.

Rediger, the Janitor's account £17 · 17 · 10 passed.

"German passengers who arrived in the Port of Philadelphia from Aug. 19, 1729 to Oct. 1, 1789"—an accurate account taken from the original documents—by Peter Miller Esq., of Philadelphia, communicated through Dr. Magaw.

1789. Dec. 4. (10 present.)

Essays for the annual premium recommitted to the councillors and officers "who are to review them all carefully, and make report at the next stated meeting, of those discoveries, inventions or improvements, which they may determine most worthy of notice."

1789. Dec. 19. (13 present.)

[M. Le Gaux from Spring Mill, was present for the first time since his election in July.]

The Council and Officers reported that the "piece on the 'Invention of the Spring Block,' and also two pieces 'on the production of Steam' (X, Y, & Retrograde) deserve, at present, the Society's special notice." It was then

"Resolved, With respect to the Invention of the Spring Block, that the PROC. AMER. PHILOS. SOC. I. XII. PRINTED OCTOBER 24, 1883.

Society do not yet proceed o a final adjudication; but have the matter on the same ground which was specified at the meeting Dec. 21, 1787, & again recognized & farther explained at the meeting of Dec. 19, 1788."

"Resolved, With respect to the other pieces, agreeably to the 6th and 9th conditions for awarding the premiums, that they shall yet remain under consideration."

Churchman's printed "Address to different Societies, &c." was presented.

John Vaughan presented as from Samuel Vaughan, Jr., "sundry Philosophical curiosities," viz:

A complete statistical almanack [sic] of St. Domingo, on one sheet of pasteboard; West India Quinquina "not so good for fever as Red Bark;—Cinnamon from Jamaica, as strong as that from the East Indies;—Bread-fruit (Pain de Singe; Jack bread fruit) from the Isle of France; its shell, & seeds;—A goose quill with two feathers.

Committee of filed papers reported.

1790. Jan. 1. (17 present.)

ELECTION OF OFFICERS.

President—Benjamin Franklin.

Vice-President—Rittenhouse, Ewing, Smith.

Councillors—McKean, Blackwell, W. Barton, Gray.

Curators—S. Duffield, Peale, B. S. Barton.

Secretaries—Hutchinson, Magaw, Patterson, J. Vaughan.

Treasurer—Hopkinson.

"Some difficulty baying arisen in the course of this elec-

"Some difficulty having arisen, in the course of this election, concerning the construction to be put, in certain cases, upon the latter clause of the Law which respects the 'Manner of electing the officers;'

"It was moved & seconded that according to the Constitution of the Society, a Majority of the votes of the members present is necessary to constitute the election of officers:

"This motion passed in the Negative."

[Explanation of this vote is wanting.]

1790. Jan. 15. (14 present.)

1790.

Election of five new members: Geo. Turner, one of the Judges of the Western Territory; Caleb Whitford,* Secretary of the British Peace Commission; Baron Hupsch of Cologne; John Walker, Professor Natural History of Edinborough; Dr. And. Sparrman,† Professor Nat. Hist. Bot., Stockholm, and "author of a Voyage to the Cape of Good Hope, and a celebrated work on Ornithology."

Gray, Pettit, Patterson, made Auditing Committee.

Elliott displayed articles of Natural History from the Western Territory. Referred to Dr. Barton to examine and report.

Smith, Redick, Finley, Committee to draft a By-Law "to enable such of the members as reside in the Western countries, to prosecute the objects of this institution with greater effect."

Letter from Franklin to "Mr. Bodoin of Boston" containing sundry curious queries relating to magnetism, and the theory of the Earth, was presented and read.

1790. Feb'y 5. (9 present.)

New By-Law read and ordered to be duly published in the newspapers for action at a subsequent meeting.

Curators ordered to catalogue and arrange "the Library, the various specimens of natural history, & other articles of their Museum, & remove them from the place in which they are at present to one of the chambers in the Society's Building," the Treasurer to pay necessary expenses.

Memoirs Royal Academy, Turin, 1786, 1788, presented through Franklin; also Dr. J. Ingen-Housz's 2 Vols. "Nouvelles experiences &c."

[Then follow five lines of MS. elaborately erased.]

^{*} Spelled Whitefoord in Catalogue, March 15, 1880.

[†] Spelled Sparman in Catalogue March 15, 1880.

1790. Feb'y 19. (7 present.)

Dr. Hutchinson, in the absence of President and Vice-Presidents, took the Chair.

Aitkin prays relief against a demand from Kaighn & Attmore "grounded on a note granted three years ago by the Phil. Soc." Ordered to lie on the table.

Treasurer's account read: Balance January 1 in his hands £10 ·· 10 ·· 6.

Mr. Patterson objected to the Treasurer charging commission on sums paid by members to himself.

Treasurer had received £63 ·· 14 ·· 6 for two years ground rent on Premium Fund.

"An account of a hill on the borders of N. Carolina supposed formerly to have been a volcano;" letter from Dr. Greenway, of Petersburg.

"An account of a poisonous plant growing spontaneously, in the Southern part of Virginia."

1790. March 5. (10 present.)

"After some philosophical conversation—retired."

1790. March 19. (5 present.)

"Foreign communications were brought in by M^{r.} Vaughan, but the particular and official notice of them is postponed."

1790. April 2. (2 present.)

[The first minute of April 16 says, "It appears that at the last stated time of meeting the weather having been unfavorable, none attended except one of the Secretaries & another member."]

1790. April 16. (7 present.)

Committee on Treasurer's accounts reported. Report recommitted with instructions "that the Treasurer is to be allowed the commission of £5 in the hundred on such sum as he hath, in the course of the last year, or may hereafter have any trouble in collecting himself, or of employing any person to collect."

Ordered that \$28 collected by Mr. Patterson (the Treasurer being sick), be paid Mr. R. Aitkin on account.

1790. April 21.

Special meeting, called by the Vice Presidents at 3½ P. M., in the Hall; twenty-three members present, who "went in procession to the funeral of their late illustrious President, Dr. Benjamin Franklin."

1790. April 23. Special Meeting. (19 present.)

"To consider of some Testimony of Respect to the Memory of their late illustrious President."

An Eulogy voted, to "be prepared by one of their members, to be pronounced before this Body, as soon as may be convenient."

Dr. Wm. Smith and Dr. Rittenhouse "were highest in votes" by ballot "and had each an equal number."

"These gentlemen consenting that the said eulogium shall certainly be prepared, it is left to themselves to determine which of them shall deliver it."

Percival's Essays, Vol. II, was presented.

Wm. Barton's letter to Rittenhouse, with "additional observations on the proportion between Births & Deaths in Philadelphia: and a Table of the number of births & deaths in the German Lutheran Congregation from 1774 till 1790," was read.

A Committee to examine the laws of the Society "whether they give a power of choosing a President or other officer, in case of a Vacancy, at any time except the stated annual one" was appointed, consisting of Ewing, Willson [sic], W. Barton, Sargeant, Patterson, "or any three of them."

John Vaughan's proposal to rent the cellars were referred to the Building Committee.

Baron Heinitz, of Berlin, acknowledged receipt of his certificate of membership.

1790. May 7. (9 present.)

"Recommended to the next meeting to appoint a Committee to arrange the papers preparatory to a new Vol."

1790. May 21. (9 present.)

"Dr. Samuel Vaughan in the chair by special appointment."

Three pamphlets on Cochineal, presented through Mr. Hopkinson.

Mr. Hopkinson, wishing to have the balance due on his bond paid, "is under the necessity of making a demand of the same, at this time, and hath made it accordingly. The Society agrees, that this matter shall be duly attended to; and they refer it to the next Meeting."

"M^{r.} J. Vaughan is requested to accompany the Treasurer, in calling upon M^{r.} Stephen Girard in order to receive Grounds Rents [sic] due on account of M^{r.} Magellan's benefaction."

Vaughan and Peale, a Committee to ask of Printers "the terms on which another Vol. of Transactions may be printed."

Joshua Humphrey's letter describing a Machine for drying grain, on the principle of a Boulting mill; and a Steam Engine on the principle of Rumsey's Water mill, was presented by Mr. Hopkinson.

1790. June 18. (6 present.)

Emblematii Rottenhagii, a volume of 200 elegant copperplate engravings printed at Utrecht, 1613, was presented through Wm. Barton, by Mr. William Spotswood, of Philadelphia. Also "The Constitution of the Penn^a Soc. for promoting the abolition of Slavery &c"—and "An address to an Assembly of the Friends of American Manufactures," by Tench Coxe.

Committee to wait on Girard "reported that had given him one month to receive his definitive answer. Committee continued.

Committee on terms of publication "reported that M^{r.} R. Aitkin was willing & desirous to undertake" Vol. III, "at his own expense, reserving to the Society a number of copies for presents." Committee ordered "to inform M^{r.} Aitkin that the Society are pleased with his offer," and desire it in writing.

Rittenhouse, Ewing, Smith, Patterson, Dr. Barton, Hopkinson, and Wistar appointed a Committee "to prepare for publication such papers as are or may be in the possession of the Society, which they may judge worthy of appearing a pproved of any three of said committee"

Hopkinson's demand referred to the next meeting. Barton, Peal, Hutchinson "appointed to consider of ways & means to satisfy his demand," and report.

1790. July 16. (8 present.)

1790. Aug. 20. (5 present.)

Legacy of Franklin, 91 Vols. History of the Royal Academy of Sciences at Paris, received.

1790. Sep. 17. (7 present; Dr. Smith, Vice-President.)

Churchman's Navigation Chart, or Magnetick Atlas, presented.

1790. Oct. 1. (5 present.)

Dr. Stiles's letter (President Yale College) was read, containing several miscellaneous observations, very curious;—among others, M^{r.} P. Pond's Met. Obs. made near the sources

of the Mississippi;—account of certain Inscriptions or Marks* which have been discovered in the Bay of Narraganset & a drawing of the same, &c."

"M^{r.} T. Franklin produced a letter & a printed paper giving some account of the Discoveries of the aforesaid M^{r.} Pond, in the N. Western parts of this country."

1790. Oct. 16. (7 present.)

The effects of lightning on Mr. Leiper's house at his mills near Chester, August 17, 1789, were described in a letter from Rittenhouse and Hopkinson, "a remarkable case; the house having been furnished with two conductors."

Ludwig C. Kuhn, "late of Manheim in Germany, introduced by Peter Miller of this city," exhibited a model, and description of a "Pile-driving Machine for erecting Water Works in or about Rivers &c., or swampy places. It is called a Ramming Block," and "when worked up, discharges itself."

Also, a Model of a convenient Sick Bed.

"A curious vegetable production—being 'a Branch of a Radish incorporated with a Red Beet' sent from M^{r.} Will Bradford, Cantwell's bridge, Del., was communicated."

Sadler and Ogilby's letter was read respecting the Arch Street lot "on which they have constructed houses."

1790. Nov. 5. (6 present.)

Thos. Pole's letter from London, 8th month, 15th (with one from his brother Ed. Pole of Philadelphia) enclosed a Print which he "had caused to be taken of a Boy lately shown in that city as a Lusus naturæ; also the representation of an Infant, exhibiting a similar lusus," born in St. Lucia, of black parents.

"A specimen of Printing Types" from Fry & Co., letter founders, England, received.

[&]quot;Philo-Franklin's" letter, "containing hints for improv-

^{*} Probably the Dighton rock inscriptions.

ing both the upper & lower extremity of Metalic Lightning Conductors, was reported by V. P. Rittenhouse for the Annual Premium."

Ast. Roy. Nevil Maskelyne sent several tracts, among which were: "Some account of the discovery made by the late M^{r.} John Dolland, which led to the grand improvement of Refracting Telescopes, by Peter Dolland;" and "Account of a Prismatic Micrometer, by the Rev^d D^{r.} Maskelyne."

1790. Nov. 19. (10 present.)

Pettit and Vaughan, Auditing Committee.

Jon. Williams' communication, "On the use that may be made of the Thermometer to discover soundings, Banks, Islands of Ice &c. illustrated by the journals of four voyages, on which the tracts are traced."

Meeting of Councillors and Officers called for Friday 26th, to examine premium papers.

1790. Nov. 26. (Officers present, Wm. Smith, Vice-President, Wm. Barton, Dr. Barton, Patterson, J. Vaughan, Duffield, Magaw.)

Report agreed upon—"That among the former communications which lie over for consideration, the Piece on the Invention of the Spring Block'... is recommended to the Society's particular notice;—also—Two pieces on the Production of Steam" (X, Y; and "Retrograde")—"Philo-Franklin's" recent Piece, was likewise recommended to the consideration of the Society.

1790. Dec. 3. (Rittenhouse, Smith, Collin, Dr. Barton, W. Barton, J. Vaughan, Magaw.)

"Philo-Franklin's" Supplementary Paper was handed in, also

A supplementary paper to the improved Steam Boiler paper of April, 1788.

T. Clifford's bill of £42 "1"1, balance due for "Scant-

ling supplied for erecting the Philosophical Hall," was "ordered to lie on the table."

Mr. Patterson's letter and description of what he thinks would be an improved manner of applying the Springs to ships' rigging, was read.

Rittenhouse, Smith and Hopkinson appointed a Committee on the Laws of Membership, to report alterations.

The adjudication of the Annual Prize was postponed to the next meeting.

1790. Dec. 17. (Rittenhouse, Jones, Ruston, Dr. Collin, Dr. Barton, J. Vaughan, J. B. Smith, Dr. Smith, Magaw, Matlack.)

R. Aitkin's proposals for Transactions, Vol. III, received, read and accepted. Aitkin's letter "mentions his intention of entering upon the work as soon as the subscriptions obtained may be sufficient to purchase the Paper for the Volume."

Auditing Committee reports a balance of $\pm 28 \cdot 17 \cdot 6$ in the Treasurer's hands; also $\pm 97 \cdot 6 \cdot 6$, interest of Mr. Magellan's Fund for three years.

Hopkinson's letter "suggesting & illustrating the idea of measuring a ship's way."

Adjudication of Premiums:—The Officers' report was again read, and then the four Pieces [Spring Block, Retrograde, X, Y, and Philo-Franklin] "were read once more, and after due consideration had, a Vote was taken on the questions:—

- 1. "Do any of the papers read come within the design of the Donor?"—Affirmative.
- 2. "Are any of the Communications now under inspection worthy of the proposed Premium?"—Affirmative.
- "The Society then proceeded; and it was determined by the concurring votes, that the Invention of the Spring Block was entitled to a premium."
- "The sealed Letter then which accompanied the Performance was opened, & the name of the Author announced,

'Francis Hopkinson;' to whom the premium was awarded, as of the year 1787."

"On the ground of the 11th Article of Mr. Magellan's Conditions, the Society proceeded, & took a vote on the general previous question, as above, in regard to the other Pieces before them.—It was determined in the negative; and the business relative to these pieces, for the present, closed."

"The papers on steam were deemed inadmissible according to the Rules; but that on Lightning Rods, worthy of special consideration hereafter."

1791. Jan'y 7. (23 present.)

Agreed, that members with long standing arrears may begin their payments at January 1, 1783, and so downwards, agreeable to the rate of exaction from other members in the several years since.

ELECTION OF OFFICERS.

President—David Rittenhouse.

Vice-President—Dr. J. Ewing, Dr. W. Smith, Hon. T. Jefferson, Esq.

Secretaries—Dr. Jas. Hutchinson, R. Patterson, Jon. Williams, and Dr. Sam. Magaw.

Treasurer-J. Vaughan.

Councilmen to hold their offices for three years—Dr. Adam Kuhn, Jared Ingersoll, Esq., And. Ellicott, Dr. S. P. Griffiths, and Rev. Dr. Nich. Collin, for one year, vice Rev. Dr. Geo. Duffield, deceased.

Councillors of unexpired terms—Hon. T. McKean, Esq., Rev. Dr. R. Blackwell, W. Barton, Esq., Ch. Pettit, Esq., Is. Gray, Esq., Dr. B. Rush, and Dr. J. Jones.

Curators—Dr. S. Duffield, Dr. B. S. Barton, and C. W. Peale.

1791. *Jan'y* 21. (13 present.)

Rittenhouse, not present, sent a letter of thanks.

Dr. Ant. Fothergill's (of Bath, England) paper "On the

Poison of Lead," received in a letter from G. Turner of, Fort Washington, Western Territory, October 20, 1790. Referred to Drs. Hutchinson and Wistar.

A printed paper addressed "A l'Academie des Sciences, à Philadelphia," communicated the death of Dr. P. J. Bergius, of Stockholm, July 10, 1790.

Scheveter's extract of a letter to M. de la Lande, at Paris, October 17, received.

C. G. Fleckeisen's "Selenotopographical Fragments, Helmenstädt, July, 1790; advertisement & its translation read.—Ordered, that the Advertisement be published in the German and other Newspapers."

Election of 14 new members: United States Secretary and Treasurer, Alex. Hamilton; Attorney-General, Edmund Randolph; Alex. Addison, James Ross, and Absalom Baird, all of Washington county, Pa.; John Smilie, Albert Gallatin, and John Hoge, all of Fayette county, Pa.; Col. Alex. Anderson, of Philadelphia; Capt. Wm. Ferguson of the Artillery, in the Western country; Ben. Gloxin, M.D., of Strasburgh; S. L. Mitchell, M.D., of Long Island; R. Goldsborough, of Talbot county, Maryland; Jas. Anderson, M.D., of Madras, of East Indies.

1791. Feb'y 4. (Jon. Williams, Dr. B. S. Barton, J. Vaughan, Dr. Ruston, Dr. Magaw.)

Astronomical observations received from Rittenhouse, enclosing other observations by Rev. Dr. Madison, President of the College of William and Mary, Va.

T. Pole, Surgeon, London, sent (per J. Bringhurst) the copy of his "Anatomical Instructor." Thanks ordered.

The Secretaries ordered to prepare certificates for the new members, and deposit them with the Treasurer for distribution.

Ruston, Barton and Vaughan, appointed to call on Rittenhouse and Smith to report their "determinate answer with respect to the Eulogium agreed to be pronounced in Memory of Dr. Benjamin Franklin."

1791. Feb'y 18. (10 present.)

Eulogium Committee reported "that the Business is in forwardness."

Rittenhouse communicated (through Patterson) his recent "Experiments upon a very small piece of Black-lead Pencil, in the focus of the large Lens, and otherwise in reference to the proposed improvement of Lightning-Conductors." The specimen of black-lead was exhibited.

A MS. "Index Floræ Lancastriensis, Auc. Henrico Mülenberg [sic], D.D.," dedicated to the American Philosophical Society at Philadelphia, was received through Dr. Rush and referred with, and as a supplement to, "Specimen Floræ Lancastriensis" sent in 1786, to the Publication Committee.

Rush's "Thoughts on Common Sense" was communicated and read.

Williams' letter relative to W. Barton's proposed communication on "Progressive Population in America," with an extract from Barton's note to Williams, was read.

The Treasurer was ordered to negotiate with R. Aitkin, concerning the outstanding balance, and report.

J. Vaughan's written proposal to rent the cellars (in writing but not engrossed in the minutes) was accepted.

"Resolved, That the Treasurer (Mr. Vaughan) shall at this time, out of the Funds of the Society [pay] to Mr. Richard Bache, all the interest due upon the Society's Bond given to Dr. Benjamin Franklin—till the 2^d day of this Inst. February, amounting to £37 ·· 10, so that, annually hereafter, the interest shall become due on the same day until the Principal be discharged."

"Resolved also, That as the above interest becomes annually due, it shall be paid; the Treasurer having first, on every such occasion, received an order subscribed by the President of the Society or one of the Vice Presidents, agreeably to the law respecting the payment of Money.

"Resolved, That it be entrusted to the Treasurer, to prepare new Bonds, and exhibit them at the next Stated Meeting, relative to the sum due now to Mr. Richard Bache; there having been an omission on the former Bond as to the Date,"

Treasurer ordered to pay Hopkinson £18, interest due him this day.

Rediger's account for fifteen months' attendance, candles, &c., $£13 \cdot 11 \cdot 4$, ordered paid.

Terman Rook's account for printing fifty copperplate Certificates of membership, and for paper 15sh. 3d., ordered paid.

1791. Feb'y 25. (Special Meeting to arrange for Franklin's Eulogy; 9 members present; Rittenhouse absent, as at all the previous meetings since his election.)

Tuesday, March 1, appointed the day.

The following list of invitations voted:

- 1. The President of the United States.
- 2. Vice-President and Senate of the United States.
- 3. Speaker and House of Representatives, United States.
- 4. Governor of the State.
- 5. Speaker and Senate of the State.
- 6. Speaker and House of Representatives of the State.
- 7. Ministers of the United States for State, Treasury and War.
 - 8. Ministers and Consuls of Foreign Nations.
 - 9. The Family of the Deceased.
 - 10. Judges of the Supreme Federal and District Courts.
 - 11. Attorney-General of the United States.
 - 12. Judges of the Supreme Court of Pennsylvania.
 - 13. Mayor and Corporation of the City.
 - 14. Trustees and Faculty of the University.
 - 15. Trustees and Faculty of the College.
 - 16. The Printers of the City of Philadelphia.
 - 17. College of Physicians.
 - 18. The Clergy—individually.
 - 19. Directors of the Library Company.
- 20. Managers and Physicians of the Pennsylvania Hospital.
 - 21. President and Officers of the Abolition Society.
 - 22. Corporation of the German Lutheran Church.
 - 23. Citizens, by a general notification in the public papers.

Committee of Arrangements: Hutchinson, Williams, Magaw, J. Vaughan, and Dr. Barton, to prepare and give notices and regulate other matters; "to have letters to the Houses of Congress ready, early to-morrow morning; and to fix the hour for pronouncing the Eulogium, as may, by previous enquiry, be found to suit the convenience of those houses."

Smith, Patterson and Magaw, Committee to apply to the German Geographical Society of the Lutheran Church for the favor of their Building in which the Eulogium may be delivered.

[This must have been the large Church edifice at the corner of Fourth and Cherry streets, demolished in 187–and replaced by storehouses; because the older cruciform collegiate Church at the corner of Fifth and Cherry was too small.]

1791. Feb'y 26.

The Committee of Arrangements met in the forenoon, and presented invitations to and received replies from both Houses of Congress.

Met again in the evening, and "received the following answer from the President General, to the invitation left at his house this morning:"

"The President of the United States has received the invitation, addressed to him by a Committee of the American Philosophical Society, to an Eulogium which the Society have directed to be pronounced to the Memory of their late worthy President Benjamin Franklin;—and he will attend with pleasure, on an occasion which renders the Tribute of meritted [sic] Respect to the Memory of that distinguished Fellow citizen." [No signature, but dated Feby 26th 1791 and addressed to "The Rev^d Doctor Samuel Magaw."

1791. March 1. The Society by special notification met at their Hall. (Present: Hutchinson, Rush, Pettit, Hoge, Jones, Izard, W. Barton, Davidson, W. Bradford, J. B. Smith, I. Morris, Williams, Hamilton, Collin, Fox, Duffield, C. Biddle, Ferguson, Humphreys, Redman, J. Vaughan,

Green, Davidson, Rittenhouse, Jefferson, Ewing, White, Blackwell, Bleakley, Hill, Ingersoll, E. Shippen, Jas. Biddle, Chew, Jr., Magaw, Carson, Parke, Clarkson, Dr. Barton, Burd, Ruston, Wistar, McKean, W. Smith, Andrews.)

"The members went in procession to the German Lutheran Church in 4th street, where an Eulogium was pronounced by D^{r.} W. Smith to the memory of D^{r.} Benjamin Franklin."

1791. March 4. (Collin in the Chair, Ruston, Williams, W. Barton, Vaughan, Patterson, Ferguson, Griffiths, Hoge, Magaw.)

Thanks to Dr. W. Smith voted, and a copy for publication requested.

A new Bond being found to be unnecessary, "provided the mite of having executed said mortgage be duly certified," the Treasurer was ordered to obtain a certificate from the members who signed the original Bond.

The form of a lease of the cellars to J. Vaughan, from January 1,1790, to January 1, 1800, for £250, paid in hand, to be applied according to his offer of 23 of April 1790," was produced, and it was resolved that the Seal of the Society be affixed; "that it be countersigned by one of the Secretaries, & that a counterpart be taken from said lease to Mr. Vaughan to be lodged with the President."

Thanks voted to the corporation German Lutheran Church "for the exceedingly polite & obliging manner in which they were pleased to accommodate the Society on Tuesday last with their spacious building, in which to deliver," &c. The Secretaries in sending the minute were to "particularly express to them the high sense which the Society entertains of their kindness."

"The South Room, next the State house, reserved to the Society" was ordered to be "finished in a neat manner, as soon as Contributions sufficient for that purpose, are raised by the Committee on the Building."

Phineas Pemberton's papers, delivered by James Pember-

ton, were read by J. Vaughan: "sundry curious Meteorological observations carried on thro' a series of years, collated & compared together, in sundry papers now in his possession."

1791. March 18. (17 present.)

W. Barton's paper on the state of population in the United States was read.

T. Matlack's description of "a large Tusk found in the back country" was read, and two pieces of the tusk exhibited.

Smith, Rittenhouse and Vaughan, a Committee to print the Eulogium.

The President directed to countersign the lease of the cellars.

1791. April 1. (Rittenhouse and 5 others.)

[No minutes.]

1791. April 15. (Jefferson and 10 others.)

Caleb Whitefoord's letter from London, February 25, "expressing his sensibility of the favour" of election, was read; also that of

R. Goldsborough, of Talbot county, Maryland, acknowledging the receipt of his certificate of membership.

B. Waterhouse, M.D., sent a copy of his Synopsis of medical lectures.

Election of five new members: C. P. Thunberg, Prof. Nat. Hist. at Upsal; Nich. L. Burmann, M.D., Prof. Bot. Amsterdam; J. Gottlieb Grosche, M.D., Prof. Nat. Hist. at Mitau, Courland; Tho^{s.} Pennant, of Downing, Flintshire; and H. Knox, U. S. Sec. War.

On Jefferson's motion, a select Committee (Jefferson, Dr. Barton, Hutchinson, Thompson [sic] and Wistar), was appointed to collect materials for forming the natural history of the Hessian fly; and the best means for its prevention or

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destruction, "& whatever else relative to the same may be interesting to Agriculture."

Rittenhouse, Patterson and Vaughan, a Committee "to direct the fixing up of Lightning conductors on this Building."

"A small account of Two Dollars—handed by D^{r.} Magaw to the Janitor of the German Lutheran Church for his services at the time the Eulogium was pronounced—was presented and passed, £0 ·· 15 ·· 0.

1791. May 6. (Rittenhouse, Jefferson and 9 others.)

Dr. Rush read a dissertation entitled "Inquiries and Observations upon Old Age."

Hopkinson presented "A Descriptive Catalogue of engraved Gems, about 1500."

Building Committee directed to "treat with the College of Physicians, on such terms as they may think mutually advantageous concerning the said College's finishing and occupying for a certain time the Society's South East Chamber above Stairs."

1791. May 12.

Special notices called the members, residing in the city, to the Hall at 5 o'clock P. M., whence they "proceeded to the funeral of Dr. Francis Hopkinson, deceased—a late worthy Member."

1791. May 20. (8 present.)

Essay on "Warming Rooms" "for the Magellanic Premium," presented; Motto, "Cuique eveniat semper prout meruit." Referred to the Committee of Inspection.

A Journal of Captain Wm. Billings from Philadelphia to Corruna and back to Philadelphia, "to ascertain the difference of temperature between the Air & Water, particularly when passing the Gulph Stream, or any body of land or Banks," presented by Dr. Foulke.

1791 June 17. (W. Barton, Griffith, Vaughan and Ruston, 4.)

Letter from Gerh Gejsh ten Kaff, M.D., Dir. and Sec. Bat. S. Ex. Phil. Rotterdam, presenting its Transactions IX Vol., and offers of exchange. Ordered accordingly.

1791. June [].

Special notices called the members to the Hall at 8 A. M., who proceeded thence to the funeral of Dr. John Jones, deceased, "a late worthy member."

1791. July 15. (Rittenhouse and 15 others.)

Ordered that the Batavian Society letter be immediately answered, and Transactions American Philosophical Society, Vol. II, sent by the first safe conveyance.

Jesse Higgins (of Delaware), letter on "the ways & means for removing the water from Sunken Ponds the Society consider this subject as meriting particular attention."

Pearson & Co.'s bill for carpenter work, "done for D. Evans & W. Roberts in the Phil. Hall," 5th m. 14th, 1789, postponed for conference with the Building Committee.

Election of seven new members: J. Lusac, Prof. Greek, Leyden; J. Nicholson, Compt. Gen. Penn.; Andrew Ross, M.D., Phila.; Ben. Waterhouse, M.D., Prof. Med. Camb., Mass.; J. Penington, M.D.; J. Beckley, Clerk U. S. H. of R.; and P. S. DuPonceau, Councillor at Law, Philadelphia.

1791. Aug. 19. (Pettit, Collin, Ruston, J. B. Smith, W. Barton, Nicholson, Du Ponceau, Jefferson, M. Ternant, Ambassador from France, Otto, Barton, Kuhn, & Patterson.)

A paper on the Sugar Maple tree by Dr. Rush was read.

A short memoir on the Wheat insect, or Hessian fly, by Mr. S. L. Mitchell, of Long Island, was read.

A letter on a New Standard for weights, from J. Cooke, of Tipperary, to Jefferson, was read.

Vol. IV, Mem. de l'Acad. R. de S. de Turin, presented by De la Land [sic].

A curious piece of Indian Sculpture, supposed to represent an Indian woman in labor, found near Cumberland river, Virginia, was presented by Jefferson.

Principes sur les Mesures, &c., a pamphlet by M. Bonne, of Paris, sent by the author.

Remarks on the means of preventing the consequences of the bite of the Rattlesnake, by Dr. Barton, was read.

Vaughan and Barton, a Committee to treat with some printer, to put to press Vol. III, and report terms at next meeting.

W. Roberts' account $(7 \cdot 12 \cdot 1)$ "for the half of laying two floors in the Phil. Hall," was presented and referred to the Committee on the Building.

1791. Sep. 16. (Rittenhouse and 16 others.)

Committee to examine paper for Vol. IV, ordered to have the same ready as soon as may be; and to prepare, as an Appendix, "an Historical View of such papers as they may deem valuable; but yet it may not be thought expedient to publish at large," and to report at the next meeting.

A letter was read from J. Vaughan accompanying a present of the following books: The Abbé Nollet's System of Leçons Physique, 2 Vols.; Muschenbrook's Philosophy, 2 Vol., 4°, Trans. Soc. for Promoting Arts and Manufactures at London, 1785, 8°; Memoires relative to the History and Sciences of the Chinese, by the French Missionaries, 12 Vols. 4°.

"There was presented at the same time by M^{r.} J. Vaughan a Profile in Plaster of Paris of D^{r.} Priestley particularly valuable for the Resemblance."

"It appearing to the Society that the communication on the subject of Maple Sugar might be of general utility;—Ordered that the Com. of Pub. [to which in this

instance, M^{r.} Drinker is added] be empowered to cause it to be published in whatever manner they may think best."

Committee of the Building, authorized to close the contract with the College of Physicians for the South Front chamber.

Jos. Powel's, of Bedford, letter containing "a particular description of the Flowing Spring; its situation—qualities—fluctuations, &c." was read.

Rediger's account from February 4, £6 .. 6 .. 0, passed.

1791. Oct. 7. (9 present; Collin, Chairman.)

C. Blagden, Secretary Royal Society, acknowledges receipt of his certificate, with thanks and assurances "that it will on all occasions make him very happy if he can contribute to the purposes of their institution."

Committee on Publication per Dr. Barton, reported progress; "Historical View" not quite ready.

C. W. Peale's letter describes "a Person born a Negro, or very dark mulatto, who afterwards became white."

Eliphalet Pearson, Secretary Am. Ac. Arts, Cambridge, July 4, sends a copy of Judge Lowell's Eulogy "on the late worthy President of that Society, the Hon. James Bowdoin."

- J. Churchman, per W. Barton, writes enclosing a copy of a letter from Rudolph Valltravers, Esq., F.R.S., from Rotterdam, July 3, presenting "certain numbers of the Annals of Agriculture &c., collected & published by Arthur Young Esq." Thanks ordered "for these marks of his [M^{r.} V.'s] Regard. They are not possessed of the Work, of which he has been pleased to send such agreeable specimens."
- J. Vaughan reported the putting up by the Building Committee of Lightning conductors, "one of which is pointed with Black lead, on the principle suggested lately by an ingenious Theorist, for improving the Extremities of such Conductors."

1791. Oct. 21. (Doctors Hutchinson, W. Smith, Ruston,

Parke, Wistar, Kuhn, B.S. Barton, Griffiths, Collin, and Magaw, and Messrs. T. B. Smith, Bleakley, Peale, Nicholson, Du Ponceau, W. Barton, Hazard, Anderson and Patterson.)

Election of four new members: And. Murray, M. D., Prof. Bot., Göttingen; Peter Simon Pallas, M.D., Prof. Nat. Hist., St. Petersburg; Dugald Steuart [sic], Prof. Mor. Phil., Edinburg; and Alex. J. Dallas, Esq., Secretary to the Commonwealth of Pennsylvania.

"Ordered that the conditions respecting the Annual Premium established by M^{r.} Magellan, be immediately republished; and, hereafter, annually, in the month of January."

1791. Nov. 4. (Collin, Dr. Barton, Peale, Vaughan, Magaw.)

Sam. Mitchel, of Long Island, sent Stahl's Fundamenta Chymiæ, and Alpinus Marosticensis Philosophi, &c.

John Peter Brissot (de Warville), presented by letter (per Jacob Shoemaker), his "Nouveau Voyage, Vols. I & III ("the 2^d supposed to have been mislaid").

A model of a fire escape was exhibited by the Revd. Dr. Collin, with its description.

Communication for the Magellan Premium, "An Attempt to prove the general and well conceived opinion, That Springs of steel acquire Strength or power, by cold weather, and lose it by warm, to be erroneous;" signature "Scrupulous."

1791. Nov. 18. (Collin, Peale, W. Barton, Patterson, Magaw.)

Rittenhouse wrote to the Treasurer that he had paid the balance of the debt due to the lare Judge Hopkinson, and taken up the Bond and Mortgage. "He is pleased to say, he 'might have made a more brilliant Present; but mutual expediency with regard to the Society, & the parties concerned in the matter of the lot, induced him to rid the former from this incumbrance.' The impressions made by

the above communication are exceedingly agreeable; but it is judged most proper to refer the taking of particular order in the return of the Society's thanks to a fuller meeting."

Zach. Poulson's account for printing notices at three different times, 17s. 6d., was passed.

Notice to be given of a meeting of officers, Friday next, 6 P. M., to examine communications for the Magellan Premium.

1791. Dec. 2. (De Ternant, Du Ponceau, Turner of the "Western Territory," and 14 others present.)

Dr. Williamson in the Chair.

The officers having met "to examine into the merits of Pieces & Inventions communicated by candidates" reported that they required further time, and were ordered to convene on the following Friday "special notices of this appointment to be sent to them in writing" [which suggests difficulties in the way of getting the official members to attend a special meeting. J. P. L.]

Dr. Rittenhouse, the President's letter, was again read [here a blank has been left for its insertion which was never done], and Drs. Smith and Collin, and Mr. J. B. Smith were appointed a Committee to draw up a letter of thanks.

Committee "to examine & report a state of the funds of this Society, and to devise Ways & Means to discharge the remaining Debts." Treasurer J. Vaughan, Nicholson, Hutchinson.

"Resolved, that Dr. Rittenhouse be requested to sit for his Portrait, and the same be painted by Mr. Peale, at the expense of the Society, to be placed in their Hall."

"Resolved, that the Portrait of D. Franklin presented some time ago by M. Peale, shall be framed in the best manner that the work can be executed for a price not exceeding Six Pounds."

Magellan Premium: "A machine called an Elevator," description and model exhibited; Motto, "Nititur in ardua virtus."

A "Postscript to M^{r.} Barton's letter to D^{r.} Rittenhouse" was read and referred to the Committee for Selection and Publication.

1791. Dec. 16. (Dr. Smith, Mr. Jefferson, and Dr. Ewing, the three Vice-Presidents, and 14 others present, including Du Ponseau [sic]).

The draft of the Letter of Thanks to Rittenhouse was reported, read, "& again read by paragraphs," and unanimously adopted, and the letter was directed to be signed by the Vice-Presidents and Secretaries.

"Agreed, on motion, that the letter be read to the President in his chair.—And, he soon after, coming into Society, and having taken the chair; it was accordingly read by one of the Secretaries, as follows:"

[The address.]

"Sir. The American Philosophical Society embrace the present occasion of a meeting for stated annual business, to acknowledge the Receipt of your Letter, dated Nov. 15th, addressed to their Treasurer, in which you are pleased to inform Him, that — You have paid the Debt of £308 — — due to the late Judge Hopkinson, & will lay the Bond & Mortgage before the Society, expressing your Hopes, that this Benefaction, on your part, may 'encourage the Society to exert themselves to get rid of some other heavy debts & incumbrances.'

"This renewed instance of your Liberality joined to the consideration of the illustrious part which you have taken in their labors, for many years past, hath made such an impression upon them, that they are at a loss, in what manner they can best express their Gratitude, or their Re-

spect & Veneration for your Name.

"At any time, & in any country, such a 'brilliant Present' would indicate a Mind that can feel the inseparable Connexion between *Learning* & human Felicity. But in the present state of our Finances, it is a most important Benefaction, & a noble Specimen of literary Patronage, in a young Empire, where many other improvements must share with the Arts & Sciences in the public Attention & Bounty.

"We are sensible of the necessity of extinguishing the other heavy Debts of the Society, with all possible speed; and have appointed a proper committee to devise Ways & Means for that purpose." [Signed by the

Vice-Presidents & Secretaries.]

"The President's answer.

"Gentlemen. The Satisfaction I feel in contributing something towards promoting Science, the interests whereof are, I am persuaded, inseparable from those of Humanity, is greatly increased by your very polite approbation.

"My sincerest Wishes are, that this Institution may ever merit public encouragement, and enjoy the Patronage of the generous and the good."

Letter and answer ordered printed in one or more public

Papers.

"Philo-Franklin" paper reported, being the only one; and the question as to its being worthy of a premium being put, "it was not determined; the votes on each side being equal."

Evan Edwards, Esq., presented (per J. Vaughan) Histoire

et Mem. S. R. de Medicine.

An Extract of a Journal of the Weather at Chevenage in Glocester in England, for 1789, with two books, with a letter from Judge Turner.

"A stone in which were several petrified Shells &c found, beyond the blue Mountains, by M^{r.} John Arndt of Easton" with a letter from Mr. Levi Hollingsworth.

1792. Jan'y 6. (Annual Election; 19 voters.)

President—Dr. Rittenhouse.

Vice-Presidents—Jefferson, Dr. Smith, Dr. Ewing.

Treasurer—J. Vaughan.

Curators—C. W. Peale, Dr. Barton, Dr. Wistar.

Councillors—Pettit, Collin, Rush, White.

Secretaries—Hutchinson, Magaw, Williams, Patterson.

1792. Jan'y 20. (21 present.)

Election of 11 new members: Count Paul Andreani, of Milan; Rodolph Vall-Travers, of Hamburg; Ant. Fothergill, of Bath; Anthony Renatus Charles Mathurin de la Forest, V. Consul Gen. of France to the United States; Jos. Ceracchi, of Rome; Palisot de Beauvois, de la Soc. d. Sc. et Arts du Cap François et Corr. del'Acad. d. S. de Paris; John Rouelle, M.D., of Virginia; Rich. P. Barton, of Mt. Airy, Dinwiddie county, Virginia; Dr. David Jackson, Dr. Wm. Smith, and Nich. B. Waters, M.D., all three of Philadelphia.

"Seal of this Corporation, properly attested, shall be an-

nexed to the Deeds of Conveyance of the Lots of Ground on Mulberry* Street, to Joseph Ogilby & Matthias Sadler."

Rittenhouse delivered to the Society (per Mr. Barton), the cancelled Deed and Mortgage to Hopkinson.

Du Ponceau's letter to Mr. Williams, accompanied with a great variety of "French Dies said to resist Sea Water & all kinds of Acid Substances." Committee to try them by tests of acids: Hutchinson, Barton and Wistar.

J. Rouelle presented (per W. Barton) his "Complete Treatise on the Mineral Waters of Virginia.

A communication in French from M. de Beauvois was referred to the Secretaries for translation.

1792. Feb'y 3. (De Beauvois and 19 others present; Dr. Collin in the Chair.)

Mr. Dobson's letter to the President presents to the Society the successive volumes of the Encyclopedia. Thanks ordered and wishes for his "success in the honorable enterprize of so great a Publication."

Franklin's Chair.—"A letter from Mr. Richard Bache to the President, was read:

"Mr. Bache in this letter, presents the Society with the CHAIR in which his Father-in-Law, Dr. Franklin, used to sit when the Meetings of the Society were held at his House." Thanks and a copy of the minute ordered to be sent to Mr. Bache.

Mr. Heart's (an officer in the late Western Expedition), letter to Dr. Barton, "giving an account, under a great variety of particulars, of the antiquities of the Western Country," was read and referred to the Committee of Publication.

Committee to report some Regulations respecting the Library: Wistar, Patterson, Barton.

Bills presented:

Hicks & Mitchell for laying 92 yards of brick pavement, &c., $£7 \cdot 7 \cdot 11$.

[.] Now named Arch Street.

Lightning Conductors, £6 ·· 15 ·· 2.

Framing Franklin's portrait, £3 · 0 · 0.

For 93 yards of ribbon [for seals], £12 . 3.

Peter Fritz & Co., 70 feet curbstone, @ 3sh. 6d., £12 · 5 · 0.

1792. Feb'y 17. (17 present.)

The Committee on the Library reported, and five articles agreed to and confirmed:

1. That a complete catalogue of the Books, Instruments, Models & Specimens of natural history be made by the Curators & printed in a pamphlet.

2. That the Curators serve as Librarians, in rotation or otherwise, lending the books at the Stated Meetings to members, on security for due re-

turn.

3. That books borrowed at one meeting be safely returned at the next Meeting, on penalty of a fine $\frac{3}{100}$ of a dollar per volume.

4. That the monies paid for fines go to augment the Library & keep it

in proper preservation.

5. That members in arrears for fines should not have the privilege of taking out any book till such arrears be discharged.

Jas. Reynolds' bill for framing Franklin's portrait, ± 4 . 10, ordered paid.

Interest to Mr. Bache, due 20th instant, ordered paid.

Thanks to Mr. Aitkin for his gift of Newton's Principia and Bernard Romans, E. and W. Florida.

Pat. de Beauvue's * paper "relative to a new discovery in the Sex of Plants called by Linnæus Cryptogamia" was referred to the Committee of Selection and Publication.

1792. March 2. (15 present.)

The minutes being read, the third article of the Library report, was set aside and the following substituted:

- "3. That all Books shall be safely returned at the Stated Meeting next after they are borrowed, and in default thereof, the persons borrowing them respectively, shall forfeit and pay a fine of one Eighth of a Dollar per Vol. for all books of the size of a Quarto & upwards, or one Sixteenth
- *This name is not clearly written in the minutes. It may be a blunder for P. de Beauvois.

of a Dollar for all Books under the size of a Quarto; & the Fine incurred & payable for any such default, shall be doubled at every stated meeting of the Society which may be held previously to the return of the Books respectively."

"Two specimens of Impressions of Echinus, or Sea Nettle, in Lime-Stone, were presented by Mr. Peter Boyl, of Washington county, Geo., per David Thomas, of Loudon county, Virginia, by letter and note." (Thanks ordered.)

1792. March 16. (Rittenhouse, Jefferson and 9 others.)

Rittenhouse's "experiments to show That Steel springs lose part of their Elasticity by being heated" were communicated by letter, which was referred to the Committee of Selection and Publication.

Jer. Belknap's History New Hampshire, Vol. 2d, was presented, through E. Hazard.

The Lease of the Front Room ("contiguous to this chamber") to the College of Physicians, was brought in by Mr. Vaughan for ratification, and ordered to be sealed.

A copy of Rittenhouse's letter to Prof^{r.} Mayer of Manheim [sic], August 20, 1779, was read, and referred to the Committee of Selection and Publication. If inserted in the next Vol. a translation of Mayer's letter must be also.

The Treasurer was authorized to exchange with the printer three-quarters of the number of copies of Vol. II, for half as many copies of Vol. I, and half as many of Vol. III, when printed.

Fifty sets of the Transactions American Philosophical Society, to be reserved, and the surplus to be sold by the Treasurer.

1792. April 6. (8 present.)

The Princess of Dashkaw, President of the Imperial Academy of Sciences, St. Petersburg, acknowledged her Certificate of Membership, by letter of August 2 (O.S.), 1791, and sent two Books "accounted curious:"—The three Georgicks and some Books of the Æneid of Virgil, translated into Greek.

1792. April 20. (Sergeant, Collin, Peale, Waters, Nicholson.)

Election of new members postponed.

1792. May 4. (W. Barton, Vaughan, Wistar, Ruston, Williams.)

The President as Chairman was requested to call the Committee of Selection and Publication together, to expedite the publication of the Vol. now in press.

Proposed By-Law, laid over to the next meeting: "That all communications accompanied with Specimens in any branch of Natural Philosophy, shall be referred to a Committee for examination & Report, before the Society make reply to the persons who present them."

Rediger's account of £6 · 14 · 6, passed.

"Agreed, That at the next meeting the Committees mentioned in the 12th Bye Law shall be appointed, & the first named of each Committee shall be the Chairman." Also that the Secretaries furnish the Chairmen with extracts from the Minutes.

1792. May 18. (Rittenhouse, Collin, Dr. Barton, W. Barton, Williams, Magaw.)

A Latin letter of thanks from Prof. C. P. Thunberg, of Upsal, December 30, 1791.

A letter from Ed. Pole, Philadelphia, with a packet from Thos. Pole, London, containing a letter directed to the Society (February 3), representing an extraordinary case of Extra-Uterine Gestation, published by W. Turnbull, also an extra set of plates.

A copy of Col. George Morgan's letter (to his brother the late Dr. J. Morgan), dated Prospect, New Jersey, "respect the Ancient Fortifications found in the Western Country, on the Missisippi [sic] & Missouri Rivers, with a Draft of one opposite to the Scioto," was read.

Rittenhouse's letter to Patterson "giving a Method of

finding the Sum of the several Powers of the Sines either to a radius of unity or any other," was read.

Dr. Barton read "a Botanical Description or the Podophyl-

lum dyphyllum, now called Jeffersonia Virginica.

An account of some Fossil Shells discovered in Virginia, and additional facts concerning the Bursted Hill in North Carolina, was read out of a letter from Dr. Jas. Greenway, of Dinwiddie county, Virginia, to Dr. Barton.

The Secretaries were desired to execute Article 3 of Report of Library Committee as soon as the Catalogue was

ready.

1792. June 15. (Rittenhouse, Jefferson, Hazard, Dr. B. S. Barton, Patterson.)

Belknap's History of New Hampshire, Vol. III, was presented; also Hazard's Historical Collections, Vol. I.

Sundry papers from R. Vall-Travers, of Hamburg, 1789, were read by Rittenhouse.

Wm. Waring's Observations on the Theory of Water wheels, was read by Patterson.

Captain Billings' Journal from Philadelphia to Oporto and back, in 1791, containing daily observations of the temperature of air and water, was presented.

1792. July 20. (Rittenhouse and 15 others.)

William Bartram's Travels in Georgia, and some Latin catalogues were presented.

Jon. Williams' memoir on the Claying of Sugars (Mt.

Pleasant, July 17), was read.

Dr. Fothergill, of Bath, England, thanks the Society warmly by letter for his membership; wishing "that anything may occur to him in the part of the world where he resides 'that may seem worthy the notice of so enlightened a Society—whose great object is the welfare, happiness & improvement of man,—knowing no distinction of nation or climate.'"

Election of four new members: Erasmus Darwin, M.D., Derby, England; Dr. W. Currie, "author of a new medical publication;" Uno Von Troil, Archbishop of Sweden, author of letters on Iceland, and Mr. John Trumbull, "Painter in history &c."

1792. August 18. (Turner in the Chair; Peale, W. Barton, Vaughan, Williams.)

Valentius on Inocculation [sic], was presented by the author, and W. Smith's History of New York, by W. Barton.

1792. Sept. 21. (Collin in the Chair, and 10 others.)

"Explanatory Observations on a Thermometrical Journal of the Atmosphere & sea, to & from Oporto, by Capta W. Billings," in a letter from Jon. Williams, was read, "with an Extract from the Journals inclosed." Referred to Committee of Selection and Publication.

"An Investigation of the Powers of D^{r.} Barker's Mill, as improved by M^{r.} Jas. Rumsey, with a description of the Mill, by W. Waring," was read, and referred to the Committee of Selection and Publication.

1792. Oct. 5. (Legaux, Du Ponceau, Patterson, Peale, Collin, Barton, W. Barton, Turner, Nicholson, Morris, Vaughan, Williams.)

Legaux presented a copy of "Essai Historique sur la Colonie de Surinam."

"A Stone Dodecahedron, found on the shore of the Ohio, was presented by Dr. Chas. Brown."

Barton, Peale and Vaughan, a Committee to answer Baron de Hupsch's letter from Cologne, October 16, 1789.

"Ordered, That all Papers selected for Publication by the Committee, be forthwith put into the hands of the Printer; but upon this express condition, That he shall proceed with all despatch to complete the Work and publish the Volume of Transactions now in hand. And the Printer be called upon to specify the time at which the Work may be ready for delivery."

1792. Oct. 19. (Collin, Chairman, and 9 others.)

Rediger's account for Wood and services, £6 $\cdot \cdot 7 \cdot \cdot 9$ approved.

Indian Figures.—Letter from Major Jon. Hart, Fort Harmar, August 20, 1791.

"SIR, Agreeably to your request I made enquiry for the mouth of Indian creek water very low, affording an opportunity of viewing the inscriptions, some of which I now enclose; they are only the fancy of idle Indians, being exactly similar to the daily labour of Indians on the barks of their huts, on trees, &c. as is still customary amongst all the tribes I have been acquainted with.

"Nos. 1, 12, 3, 4 are the Inscriptions on different rocks. The only thing which appears remarkable to me is, the extent of these rocks, their hardness, and the amazing labour necessary to complete the figures over the whole extent, without the help of Tools.

"The most extraordinary discovery yet made with respect to remains of art, is a black slate stone,—an exact twelve sided Figure, even to a mathematical exactness; the faces of it being a Pentagon; the sides of which are about $1\frac{1}{2}$ Inch. This Stone was found on the Banks of the Ohio, when by late floods the banks had caved in. It is not the Work of Nature; & scarcely possible to have been made by any Uropean [sic] nation, since the discovery of America. Neither can I conceive it possible to have been made by Indians in their present state. To me, it is a convincing proof, that the Persons who formed it, must have been perfectly acquainted with the proportions of the Circle and Square. Perhaps I am inclined to be enthusiastic. But I cannot conceive of a Person accidentally falling upon that Figure, or even being* in any way to form it, without a regular process from the Circle; & reducing it mathematically to the 12-sided Figure.

"Col. Meigs, who does me the Honour to deliver this, will be able to answer every Query respecting that valuable Remain of Antiquity." "I have the Honour" &c.

"Note. [by the Secretary] A 12-sided figure; each side or Face is the exact Plane of a Pentagon; & the side of the Pentagon's measure is exactly 1½ inches; so that 5 sides of the Pentagon; i. e., the circumferance of each Pentagon measures 7½ inches. Its thickness from any two opposite sides is 3½ inches. This figure appears to have been made of black

Flint, & is exceedingly well polished. It was found washed out of the Bank of the River Ohio, at a place called Bellville, 30 miles below Marietta. It is now in possession of Joseph Wood, Esq., at Marietta.''

A Thesis, in French, on the Diseases of St. Domingo, and hot climates in general, addressed to the Society by the Chev. de St. George, Chirurgeon Major des Hopitaux de la Marine Royale à Port au Prince, was read, with a note from Dr. Foulke.

1792. Nov. 2. (Rittenhouse; Ross, Barton, W. Barton Peale, Thornton, Turner, Williams, Patterson, Collin.)

Aitkin's letter was read, and his bill for printing Queries respecting the Hessian Fly, £6 ·· 10, passed.

Revd. Mr. Cutler's letter to Dr. Barton about the ancient Muskingum Forts was read.

For the Premium: "A proposed method of managing the sails of a ship by mechanism," by "I. S. S."

Treasurer directed to borrow on interest \$200 on the credit of the Society, to complete the Volume in press; the printer to give security for the repayment of all advances made to him as soon as the amount shall be raised by the sale of the said Volume.

1792. Nov. 16. (Rittenhouse and 8 others.)

Brahm's book, "Time an Apparition of Eternity," presented with a letter to Rittenhouse, which was read.

For the Premium: "An Essay on Gauging" by "W."

1792. Dec. 7. (Rittenhouse and 11 others.)

The Officers and Council who met November 28, "particularly recommend for further inspection, this present year, that an award may take place 1. The Piece on the pointing of Electrical Rods This communication was very near having a decisive opinion given concerning it last year. 2. A proposed Method of working the Sails . . . 3. A new piece of Mechanism, called the 'Elevaproc, AMER, PHILOS, SOC, I. XIV. PRINTED NOVEMBER 19, 1883.

tor,' designed principally for lifting to a great inaccessible height. 4. A proposed Improvement in Guaging, wherein the various sources of error in the present practice are pointed out. 5. 'Cadmus' or a Philosophical Dissertation on the Elements of written Language."

"N. B.—A question having arisen relative to the last named piece, Whether it has been received, at the last meeting, within the Stated Hours of Business? It was unanimously determined in the Affirmative."

"A tract . . . illustrating the Theory of Tides, is considered as appertaining to next year."

It was then ordered that "Cadmus" be admitted to compete the present year and referred for further consideration to a Committee: Dr. Smith, Dr. Andrews, Mr. Patterson and Dr. Magaw.

And "Guaging" to a Committee: Dr. Rittenhouse, Mr. Patterson and Mr. Williams.

1792. Dec. 21. (Rittenhouse, Page, of Virginia; Peale, Hutchinson, Wistar, Vaughan, Anderson, Andrews, Turner, of Western Territory, Chief Justice McKean, Dr. Williamson, of North Carolina, Ewing, Nicholson, Ruston, Patterson, Williams, W. Barton, Magaw, and Mr. ——.)

Committee on "Guaging" reported verbally, "to the following effect, viz:" [Space left blank.]

Committee on "Cadmus" reported in writing:

"That they have perused it & found it to be a very ingenious and learned Performance, proposing many improvements in the science of communicating ideas by visible signs. They are of opinion that it is, perhaps, not to be expected that many of these improvements will suddenly be adopted; it may nevertheless, have the best tendency to introduce gradually, greater perfection in speaking and writing the English Language; and that such encouragement as the Society may think proper to give the Author, will be judiciously bestowed."

Signed, Smith, Magaw, Andrews.

The several recommended pieces were then read, or such parts of them as the Society judged necessary.

Vote on "Whether any of the communications under inspection are worthy of the Premium?" Passed in the Affirmative.

"The Society then proceeded to determine by ballot the inventions or improvements most useful & worthy."

"A premium was awarded to the Inventor of the Improvement of Electrical Rods, or Lightning Conductors, by pointing them with Blacklead."

"A premium was also awarded to a Piece entitled 'Cadmus,' or a Philosophical Dissertation on the Elements of

Written Language."

"Ordered that a full account of the crowned subjects, be published, and also an abstract of the Titles, object or subject matter of the communications which lie over for consideration."

Auditors appointed: Patterson and Williams.

1793. Jan'y 4, 2½ P. M. (11 present, including Burgess Allison* of Bordentown.)

The Auditing Committee reported £1 $\cdot \cdot 16 \cdot \cdot 10$ in the Treasurer's hands, and £164 $\cdot \cdot 10 \cdot \cdot 6$ in the Magellanic Fund.

ELECTION OF OFFICERS AND COUNCIL.

President-Dr. D. Rittenhouse.

Vice-Presidents—T. Jefferson, Dr. J. Ewing, Dr. W. Smith.

Treasurer-J. Vaughan.

Curators-Dr. B. Barton, Dr. Wistar, Mr. Peale.

Councillors for three years—Dr. J. Thornton, Chief Justice McKean, W. Barton and Dr. Blackwell.

Secretaries—Hutchinson, Williams, Magaw, Patterson.

[Then follows a page of the record of the publication ordered at the last meeting, respecting Philo-Franklin's Black-lead rod points; then, eight blank pages evidently intended to continue the relation.]

^{*} Spelled Eurgiss Allison in Catalogue of March, 1880.

1793. Jan'y 18. (Jefferson, Vice-President; Dr. Parke, Le Geaux, Currie, and 15 others.)

A comet discovered by Rittenhouse, 8 p. m., January 11, was reported by letter.

"Facts relating to the Climate of Pennsylvania, recorded among the old acts of the Swedish Church of this city"

were communicated by letter by Dr. Collin.

"A Plan for the establishment of the Vine culture in Pennsylvania by means of a public subscription, authorized and protected by Government," with a statement of the annual Expense and Produce, was communicated by letter by M. Le Geaux.

Jeremy Belknap's "Discourse, to commemorate the Discovery of America" was presented.

Committee "to prepare the Devices and other Particulars relative to the Gold Medals"; Rittenhouse, W. Barton, Peale, afterwards added: Thornton and Blakely.

Treasurer directed to procure shelves for holding Books, Maps, Papers, &c., as soon as he shall have moneys which may be applied to that purpose.

Committee of two members with the Curators to revise and print the Catalogue of Books, Philosophical apparatus, Models of machines, and the more important specimens of Natural History.

Election of six new members: M. Coupigny and M. Valentin of Cap François; John Adams, Vice-President United States, Dr. David Nassy and Dr. George Logan, of Philadelphia; J. W. Kittera, of Lancaster, Pa., of the House of Representatives United States. [Two pages in the rear of its place.]

1793. Feb'y 1. (Rittenhouse, Jefferson, John Adams, Page of Virginia, and 6 others.)

The Map of Pennsylvania by Reading Howill, of Pittsburgh, with a letter of presentation. "The map is large & beautifully executed. Altho' the author was obliged, he says, to bring it to its present Form, from detached surveys; there is reason to believe, his Abilities and Diligence enabled him to avail himself, to good purpose, of those Documents. From such actual Surveys may be expected, in a Work of this Kind, the greater accuracy." Thanks ordered.

"A dissertation on the Honey Bee showing that it is not a Native of America. By Dr. Barton, was communicated."

1793. Feb'y 15. (Jefferson, Vice-President, and 10 others.)

Aitken's letter about paper for Vol. III was read, and referred to the Committee with power.

Dr. Thornton was permitted "to have printed on his own account the Dissertation entitled Cadmus," the Society reserving the right to print it also in the Transactions.

Ordered that all the Books at present lent be immediately returned, and no more go out until the Catalogue be completed.

[END OF THE MS. Vol. of Minutes, marked 1787 to 1793.]

1793. March 1. (Ruston, Chairman, and 7 others.)

The Committee reported that Mr. Aitkin should be reimbursed, the \$113 which he advanced over and above the subscription for paper, and furnished with enough more to buy enough paper to complete Vol. III, and that all the approved papers be immediately printed, and the Volume closed. This report was approved; the advanced \$113 ordered paid; and the Treasurer authorized to borrow for the rest: the printer to refund the advances from first sales.

1793. March 15. (Jefferson and 7 others.)

A letter from R. Vall-Travers, Rotterdam, December 13. with "A new method of Carding, Spinning & Weaving raw Hemp, superior to & cheaper than Linnen [sic]. The Inventor is a French emigrated Gentleman from Guiene now in Holland—with his wife. Mr. Vall-Travers solicits en-

couragement, if their talents appear to deserve it; and offers to take order therein, if authorized to make proposals officially."

"There were specimens enclosed."

- "Mr. Dandivan (for that is the name of the Artist) gives, in a separate paper, a succinct account of the respective charges and profits producing at a small expense from even the worst of hemp, a thread far superior to the very finest linen thread from flax. He engages to construct Looms by which a weaver can make much more & better work than any other. He has contrived a more easy & convenient spinning-wheel." Patterson, Nicholson and Williams a Committee to report thereon.
- M. V.-T. presented "Le vrai Calendrier perpetual &c.," "ordered to be deposited in M^{r.} Peale's Museum,* for the examination of the curious."
- 1793. April 5. (Turner, Chairman; Patterson, Vaughan, Peale, Thornton, Blakely, Magaw.

The Committee on Hemp reported:

- 1. That information of the communication should be made to the different manufacturing societies.
- 2. That M^r . Vall-Travers should have explained to him by letter the American system of patent rights; the abundance of hemp in America, & the readiness of several persons to employ M^r . Dandivan if his invention answers the description.

Dr. Thornton and Mr. Vaughan were added to the Committee.

Wm. Waring communicated "retrospective observations on the following position contained in his Theory of Mills, viz.: That the force of an invariable stream impinging against a mill wheel in motion is in the simple direct ratio of the relative velocity." Referred to Committee on Publication.

[•] The first notice of this museum, which occupied at one time part of the State House, and at another time part of the Philosophical Society's Hail,

Jos. Barnes' essay, "On Overshot & Undershot wheels & Rumsey's Mill" was read. It opposed Waring's positions.

Mr. Waring's observations on the above were then read. Jos. Barnes' reply to these, as "Notes," was then read.

Mr. Williams sent in, as a present to the Society, bills which he had paid for sundries for the Hall in 1792, amounting to \$40. Thanks ordered.

1793. April 19. (Rittenhouse, Duponceau and 16 others.) Election of three new members: Wm. Waring and Thos. Lee Shippen, of Philadelphia; and J. Reinhold Foster J. U. D.

Mr. Dallas and Mr. Patterson proposed "that in the case of *Electing new members* the Election shall not be held but when the members who proposed the candidates respectively shall be present, and that the state of the Ballots shall not be declared at any election until the Society are about to adjourn on the evening of such Election." Consideration deferred.

"A subscription paper for raising a sum of money to enable Andrew Michaux to make discoveries in the Western Country being read:

"Resolved, That the Society will patronize this undertaking, according to the terms and condition expressed in said subscription; a copy of which here followeth; viz.

[A blank page evidently left for the subscription paper.]

"Resolved, That a committee of 5 be appointed to solicit further subscription" Hutchinson, Vaughan, Wistar, Williams, Nicholson.

"Resolved," That Collin, Vaughan, and Peale "be appointed a Committee to collect the Subscriptions & pay the same to the President of the Society, for the use of Mr. Michaux.'

"Resolved, That" Rittenhouse, Smith, Ewing, Jefferson, Rush, Wistar, "or any three of them be a Committee to confer with M^{r.} Michaux & frame Instructions for his observance; the better to promote the advantages of his Tour..."

1793. April 30. Special. (Rittenhouse, Jefferson and 10 others.)

Report of Committee of Instructions to Mr. Michaux, adopted, "as followeth."

[A blank 1½ pages evidently left for the report.]

"Resolved, That the President be requested to pay to Mr. Michaux, such sum of the subscription as he hath or may receive;—not exceeding 400 dollars."

[Then follow three blank pages.]

1793. July 19.

"The"

[The rest of the page and the following page blank.]

1793. Dec. 6.

"The Society met (having on account of the malignant fever, with which this city was lately visited, held no meeting during the last four months).

Present, Dr. Collin, Chairman & Robert Patterson.

Books received: Zimmerman's "Zoologiæ geographicæ," &c. 4°; and his "Traité de l'elasticite de l'eau"; also Dobson's American Edition of the Encyclopædia, Vols. VI, VII, VIII, IX.

Secretary Williams resigns because "he did not propose to live in town this winter."

"Papers from candidates to the annual premium," "referred to the Counsellors and other officers of the Society."

1793. Dec. 13. (Ewing, Wistar, Peale, Patterson.)

Essay on the Theory of the Tides, "recommended to the consideration of the Society, along with the papers still pending."

1793. Dec. 20. (Patterson in the Chair; Barton, Wistar, Peale, Legaux, Dr. Nassy, and Dr. Thornton.)

Adjudication of premiums "necessarily postponed till the time of the next annual adjudication."

1794. Jan. 3. (Thornton, B. S. Barton, Davidson, Judges; Nassy, Vaughan, Clerks; Rittenhouse, Legeaux, Dr. Smith, Patterson, Davidson, Magaw, Duffield, Wistar, Williams, W. Barton.)

"Mr. W. Barton resigned his place as Counsellor."

ELECTION OF OFFICERS.

President—Rittenhouse.

Vice-Presidents—Jefferson, Ewing, W. Smith.

Treasurer—Vaughan.

Curators-B. S. Barton, C. Wistar, C. W. Peale.

Counsellors—Jon. Williams, J. Andrews, D.D., And. Ellicott, S. P. Griffiths, M.D., Jas. Davidson, in place of W. Barton.

Secretaries—Nich. Collin, D.D., W. Barton, R. Patterson, S. Magaw, D.D.

"Immediately after the election, the Society proceeded to other business, M^{r.} Jas. Davidson in the Chair."

Patterson and Williams, Auditing Committee.

"Resolved, That in the Election of New Members, no person shall be balloted for, unless one of the members who proposed him be present; except the contrary shall be determined by a previous Vote of the Society; & that the Election shall be kept open; & the State of the Ballots not declared, till the Society are about to adjourn in the evening of said Election."*

Proposition to fine resident members twenty-five cents for non-attendance.

[Blank page.]

^{*}This explains the curious present practice of leaving the ballot-box standing unexamined until after "New Business" has been disposed of.

1794. Jan'y 17. (Ruston in the Chair; Thornton, Barton, Duffield, Legeaux, Nassey [sic], Bleakley, Collin, Wistar, Patterson.)

1794. Feby 7. (Peale, Thornton, Wistar, Bleakley, Col-

lin, Barton, Magaw, Patterson.)

"During the late disasters" at Cape François, Dr. Valentin's certificate of membership having been destroyed, his request for another was granted.

Collin, Williams, W. Barton, Patterson, "a Committee to devise & report such measures as may tend more effectually to promote the general objects of the Society."

"A renewal of their Lease of that part of the Hall occupied by them," was applied for by Mr. Bleakley from the Trustees of the University. Vaughan, Thornton and Peale, a Committee of Conference.

1794. Feb'y 21. (Thornton in the Chair; Barton, Nassey, Collin, Patterson, Peale, W. Barton, Williams, Nicholson, Magaw.)

Citizen Gennet's [sic] letter to the President with a French pamphlet (and translation) respecting a reform of the French calendar [sic] was received and read.

Also a letter from Judge Turner of the Western Territory.

Dr. Nassey's discourse in French on "Whether the learned researches of modern botanists have been more useful than those of the ancients" was referred to a Committee.

Three copies of a discourse lately delivered before the Grand Lodge of Pennsylvania were presented by Dr. Magaw.

The Committee appointed at the last meeting to promote the general welfare of the Society reported:

"1. That the book containing the act of incorporation . . . , be sent round to all the resident members" for missing signatures "so that the Society may be able to ascertain who their actual resident members are.

"2. That a circular letter be sent to the several resident members, pointing out the present languishing state of the Society and soliciting their respective exertions to revive the same;" punctual attendance at meetings; "and from time to time, to favour the Society with such essays or observations as they may judge conducive to the laudable purpose of our Institution—the promoting of useful Knowledge."

"That a circular letter be also sent to all the distant members in the U. S., requesting them to communicate from time to time whatever they may judge worthy of notice, relating either to science in general, or to the natural history, state of arts and manufactures, or agriculture, in

our country in particular."

"4. That the advertising Secretary be directed to send to each of the resident members the day before every stated meeting a notification of the same, as well as to advertise it in two or more of the public papers."

"5. That the recording secretary provide a book of resident members & insert in the proper column the letter p (present)

opposite the name of every member present ''

- 6. After absence from meetings without excuse for one year "the advertising secretary shall not any longer take the trouble of sending him the usual notice"
- 7. The Counsellors & Officers shall hold stated meetings on the fourth Fridays of Jan. Feb. March, April, May, Oct. Nov. & Dec. "& occasional meetings as they shall think proper."
- 8. At the meetings of the officers appointed or invited members may assist.
- 9. All communications "shall be immediately referred "

1794. March 7. (Ruston in the Chair; Legeaux, Collin, White, Barton, Peale, Vaughan, Patterson.)

Picart's History of Religious Ceremonies, 6 Vols. F.; Swammerdam's History of Insects, 1 Vol. F.; Raleigh's History of the World, 1 Vol. F, were presented by J. Vaughan.

Collin's "plan of a Botanical Garden & the relative improvement of the Museum" was read.

The Committee on the renewal of the Lease to the Trustees of the University, reported:

"Resolved that the University may have their lease renewed for 5 years, upon fully releasing the Society from a Bond for £500 due to Rich. Bache as Legatee to Dr. Franklin, on which interest is paid to 20th Feby last—Or, upon paying quarterly £130 per annum."

Committee on Circular Letters agreeably to resolutions of last meeting: W. Barton and Dr. Barton.*

1794. March 21. (Wistar, Chairman; Barton, Peale, W. Barton, Collin, Vaughan.)

Janitor's account, £6 · 9 · 4 reapproved. John C. Rediger appointed Janitor in the room of his late father, deceased.

Books: Hist. Ecc. Gen. Angl. 1 Vol. F.; Opus. omn. act. Erud. Lip. Vols. I, III, IV, 4°; Solomon Van Til, Theo Dord. 1 Vol. 4°.

An account from the estate of T. Clifford, " $£34 \cdot 8 \cdot 3$ principal & £19 $\cdot 8 \cdot 8$ int. was referred to the Treasurer."

Dr. Collin reported that Dr. Nassey's paper should be translated.

1794. April 4. (12 present.)

" A new and accurate method of calculating the excentric anomaly of the planets," by $M^{r.}$ Ellicott, was read.

"On the facinating [sic] faculty of the Rattlesnake & other Serpents" by Dr. Barton, was read.

Janitor's account, £6 ·· $12 ·· 10\frac{1}{2}$, "having been examined by the treasurer" was ordered to be paid.

1794. April 18. (Rittenhouse; Beauvais, J. B. Smith and 14 others.)

"An easy accurate method of adjusting the back horizon glass of Hadley's Sector, practicable on land & applicable to the common octant" by Mr. Patterson, was read.

Election of seven new members: Th. Mann Randolph, of Monticello, Virginia; Jas. Anderson, LL.D., of Cotfield, Scotland; the Earl of Buchan, P. S. S. A., of Scotland; Dr. Jas. Greenway, of Dinwiddie County, Virginia; Ed. Stevens, M.D., F. R. S. Edin., of St. Croix; John Nancarrow, of Philadelphia; Eberhard Aug. Wm. Zimmerman, Professor

^{*} The above minutes were omitted in their proper place and entered after the minutes of April 18.

Mathematics, Natural Philosophy and Natural History in the Caroline College of Brunswick.

1794. May 2. (Ellicott in the Chair; Nancarrow, Vaughan, Currie, Peale, W. Barton, Thornton, Stevens, Wistar.)

Books: Ebeling's Geog. U. S. Vol. I, with a letter; Belknap's Amer. Biog. Vol. I; two treatises by Dr. Currie, and Mat. Carey's "Short account of the late malignant fever in Philada 4th Edition."

1794. May 16. (Duffield, and 6 others.)

Prize medals to R. Patterson and W. Thornton, cost £37 · 8 · 7; ordered to be paid.

Book presented: Hist. des Celts. 8 Vols. 8°. Mr. Peale proposed to rent the unappropriated parts of the Hall, as a place of deposit for his Museum. Committee on the proposal: Nicholson, Collin, Patterson.

1794. May 30. By Special Notice. (Kuhn, Ruston, Collin, Duffield, Currie, Andrews, Parke, Wistar, Matlack, Nicholson, Patterson, Vaughan, Bleakley, Barton, Magaw, Pearson, Hill, Kittera, Peale, Duponceau, Blackwell, J. B. Smith, White, Ewing.)

"Sundry Asiatic plants," sent by W. Roxburgh, Botanist to the English East India Company, at Calcutta (with a letter to J. Vaughan), and deposited with Mr. Hamilton of the Woodlands, who receipted for them, and engaged to deliver them to order on demand. Approved.

"A collection of shells" with a letter from Judge Turner, of Cincinati [sic].

Museum Committee reported a conference with Mr. Peale, and a mature consideration of the subject. They had "contemplated the terms by which they held from the Commonwealth and are restricted from leasing or occupying

such parts as are not necessary to the Society, except to certain public uses, in which the present proposed object is fully included."

Mr. Peale desires to lease "all the parts of the house except that room in which the Society meet and the one directly east of it on the same floor." The cellars are under an unexpired lease, but the lessee will accommodate him there.

"Your Committee need not represent the advantages to be expected and derived from Mr. Peale's Museum when they consider the affinity it hath with the objects which engage the views of this Society."

"Under these impressions, and also with a view to promote the funds of this society, your Committee have unanimously agreed to recommend to the Society the following Resolves, viz.:

- 1. To lease to C. W. Peale for 10 years, all except the S. W. & S. E. corner rooms on the second story, from the time of taking possession.
 - 2. At £130, in two equal half yearly payments, less the cellar rent.
- 3. Mr. Peale shall moreover "do, or cause to be done the following services viz."—Act as Librarian.—Act as depository of models, drawings, plans, curiosities, &c., preserve & exhibit them, under the direction of the Curators.—Keep the Society's reserved rooms neat and clean, and open them on occasion for meetings & committees, with fires, the fuel to be furnished at the expense of the Society.
- 4. "Mr. Peale shall be allowed to finish the plaistering [sic] & other necessary work in" the S. W. room, first floor, & N. W. room second floor, "in a neat & plain manner" under the direction of a committee; the expense to be deducted from the rent.
- 5. Mr. Peale shall remove all temporary partitions &c, & deliver up the building in good order, "accidents by fire & reasonable wear excepted."
- 6. Proviso to be inserted:—in case of sale or disposal of, or removal of the Museum, the lease to be vacated.
- 7. Committee to prepare a lease:—Kittera, Duponceau, Mr. Barton.

 Committee to procure the insurance of the Society's Hall: Vaughan & Barton.

1794. June 20. (Rittenhouse and 21 others.)

Committee's draft of lease read and agreed to, and the Committee appointed to have the same duly executed.

Congratulatory address to Dr. Priestley. Rittenhouse, Mr. Barton, Thornton, Bleakley, Duponceau, Williams, a Committee to draft it. This Committee reported a draft;* it was read and adopted "and the Officers of the Society with as many of the other members as can conveniently attend are directed to meet at the Hall to-morrow afternoon at one o'clock in order to present the same."

1794. July 18. (Ruston; Wistar, Dr. Barton, Vaughan, Peale, Parke, W. Barton, Patterson, Collin.)

Ebell's book on glazing earthen vessels with lead, presented. Dr. Collin requested to read it, and "favour the Society with an analysis thereof & such remarks as he may judge most interesting."

"On the causes of bilious, remittant [sic] & yellow fevers"

by S. F. Conover, M.D., was read.

"Remarks on the poisonous or injurious honey of N. America," by Dr. Barton, was read.

Dr. Ruston reported that a number of the officers & members of the Society waited on Dr. Priestley, "and presented the address, which, with his answer are as follows"

To Joseph Priestley, LL.D., &c.

The American Philosophical Society, held at Philadelphia, for Promoting Useful Knowledge, offer you their sincere congratulations on your safe arrival in this country. Associated for the purposes of extending and disseminating those improvements in the sciences and the arts, which most conduce to the substantial happiness of man, the Society felicitate themselves and their country, that your talents and virtues have been transferred to this Republic. Considering you as an illustrious member of this institution, your colleagues anticipate your aid, in zealously promoting the objects which unite them; as a virtuous man possessing eminent and useful acquirements, they contemplate with pleasure, the accession of such worth to the American Commonwealth; and looking forward to your future character of a citizen of this your adopted country, they rejoice in greeting, as such, an enlightened Republican.

In this free and happy country, those unalienable rights, which the Author of Nature committed to man as a sacred deposite, have been

^{*} No doubt written during the meeting.

secured. Here, we have been enabled, under the favour of Divine Providence, to establish a government of laws and not of men; a government, which secures to its citizens equal rights and equal liberty; and which offers an asylum to the good, to the persecuted, and to the oppressed of other climes.

May you long enjoy every blessing, which an elevated and highly cultivated mind, a pure conscience, and a free country are capable of bestowing.

By order of the Society,

DAVID RITTENHOUSE Pres.

PHILADA, June 20th 1794.

To the Members of the American Philosophical Society at Philadelphia.

Gentlemen:—It is with peculiar satisfaction that I receive the congratulations of my brethren of the Philosophical Society in this city, on my arrival in this country. It is, in great part, for the sake of pursuing our common studies without molestation, tho', for the present, you will allow, with far less advantage, that I left my native country, and have come to America; and a Society of philosophers, who will have no objections to a person on account of his political or religious sentiments, will be as grateful as it will be new to me.

My past conduct, I hope, will show, that you may depend upon my zeal in promoting the valuable objects of your institution, but you must not flatter yourselves, or me, with supposing, that, at any time of life, and with the inconvenience attending a new, and uncertain settlement, I can be of much service to it.

I am confident, however, from what I have already seen of the spirit of the people of this country, that it will soon appear that republican governments, in which every obstruction is removed to the exertions of all kinds of talents, will be far more favourable to Science, and the arts, than any monarchical government has ever been. The patronage to be met with there, is ever capricious, and as often employed to bear down merit as to promote it; having for its real object not science, nor any thing useful to mankind, but the mere reputation of the patron, who is seldom any judge of science. Whereas a Republic, which neither flatters, nor is to be flattered, will not fail in due time to distinguish true merit, and to give every encouragement that is proper to be given in the case. Besides, by opening, as you generously do "an asylum to the persecuted and oppressed of all climes", you will in addition to your own native stock, soon receive a large accession of every kind of merit, philosophical not excepted, whereby you will do yourselves great honour, and secure the most permanent advantage to the community.

J. PRIESTLEY.

PHILADA, June 21st 1794.

Mr. Barton reported that the lease to Peale had been exe-

cuted, and that the one signed and sealed by Mr. Peale was deposited in the hands of the Treasurer.

1794. Aug. 15. (Duponceau; Collin, Magaw, Wistar, Nassy [sic], Patterson, Peale, Beauvois.)

Committee for finishing the two rooms: Vaughan, Ma-

gaw, Patterson.

"Dr. Magaw presented to the Society two copies of a discourse delivered by him, July 17, 1794, in the African Church of the city of Philadelphia, on the occasion of opening the said church, and holding public worship in it the first time."

Dr. Devize presented three copies of his "Observations on the late Epidemic &c."

"Resolved that M^r . Peale be requested to carry into execution the 1st article agreed to by the Society Feby 21, 1794 to promote . . more punctual attendance of its members."

1794. Sep. 19. (Rittenhouse, Andrews, Collin, Peale.)

A brief report on the treatise on Lead glazing was read by Dr. Collin.

[Here in a very remarkable handwriting occurs] "Dr. Rittenhouse presented a work sent by the author Carolus Ludovicus Heritier in France, stiled—Stirpes Novæ Descriptionibus et Iconibus illustratæ."

1794. Oct. 17. (Ruston; and 12 others.)

"Essay on the formation of hail, by the Rev^d M^{r.} James Hall of N. Carolina, was presented by D^{r.} Green and read."

1794. Oct. 24. (Rittenhouse; McKean, Peal [sic], Andrews, Magaw.)

Letter of the Minister of France, translated:

"Phil^a Sep. 15, 1794, Joseph Fauchet, Min. Plen. of the French Republic to the U. S. to M^r. Rittenhouse, President of the A. P. S.

"Sir, A philosopher as estimable for his republican virtues, as for PROC. AMER. PHILOS. SOC. I. XV. PRINTED NOVEMBER 30, 1883.

his knowledge & information acquired by intense studies and laborious travels,* was charged by the National Convention to present to the government of the U. States, the New System of Weights & Measures adopted by the French Republic. This unfortunate man died in the course of his voyage, at Montserrat.

Your respectable Society will partake of my regret for this irreparable loss; it will lament an affectionate Brother who hoped to present it with the labours of his friends. & to be a witness of those you undertake for the progress of science and the happiness of Mankind. The extract of a letter, which I have inclosed, was found amongst his Papers; It informed me of the intention of Citizen l'Heritier, & I hasten to fulfill it.

I send to you, Sir, the valuable Case intended for your Society. It contains the continuation of a Work, the first part of which was transmitted to you by its author, thro the hands of Dr. Franklin, on his return from Europe. This present will convince you that the sacred fire of Genius is supported in France, with as much attention as that of Liberty; and the natural alliance which exists between the Philosophers of two Countries, is drawn closer by one additional tie. You could not formerly hold a commerce with us, but on Sciences not applicable to social principles; and we remained Infants in a study so important to human felicity; whilst you were already become men. We are now endeavoring to overtake our Friends: and the despotism exercised on the human mind, shall never more shackle our amiable & free communication with men who endeavour as much to soften, as to instruct themselves. Such is the object which the name of your Society announces & which, no doubt, it accomplishes.

"Permit me, Sir, to profit by this occasion, in paying it that tribute of esteem, which every one owes it, who feels himself interested in the progress of the Arts & the happiness of his Fellow creatures.

Signed FAUCHET."

1794. Nov. 7. (Rittenhouse; Joseph Carache† and 11 others.)

"Dr. Collin presented compliments from the Archbishop of Sweden, who in a letter to him has expressed great satisfaction in being elected" &c., &c.

A paper on the improvement of time keepers by Mr. Rittenhouse was read.

Books presented: A systematical treatise of arithmetic, by John Vinall, of Boston, and a concise history of the human Muscles, by Thos. Wright, of Dublin, with letters from the authors.

^{*} Citizen Dombey, Naturalist.

[†] Crracchi, in MS. minutes of Jan. 20, 1702, the date of his election.

1794. Nov. 21. (Ruston; and 7 others.)

A paper on the mode most easily and effectually practicable of drying up the marshes in the maritime parts of North America, by T. Wright, Lic. Coll. Surg. Dublin, was read.

A letter and paper "containing an analytical view of all the late curious & useful discoveries & inventions relating to the arts, made in France since the commencement of the revolution," from "M. Alex. Lerebours lately from Paris," was read. "He also laid before the Society for their perusal a number of pamphlets on the same subjects."

1794. Dec. 5. (Ewing, Andrews, McKean, Parke, Magaw, Peale, Dr. Barton, l'atterson.)

Act of Incorporation, &c., of the Massachusetts Historical Society from Mr. Hazard.

1794. Dec. 26. (Rittenhouse and 14 others.)

Ed. Bancroft's Experimental Researches concerning the philosophy of permanent colors; and a Treatise on Magnetism, &c., by Ralph Walker, of Jamaica, presented.

Magellanic Premium. The officers having recommended the Paper on an Elevator (Nititor [sic] in ardua virtus) "the votes were taken by ballot on this performance which was crowned with a majority of votes in its favour. The sealed letter containing the author's name was then opened, when it appeared that Nicholas Collin, of Philadelphia, was the author."

1795. Jan'y 2. (Rittenhouse, Williams, Davidson, Dr. Barton, W. Barton, Vaughan, Peale, Éllicot, Collin and Patterson.)

ELECTION OF OFFICERS.

President—Rittenhouse.

Vice-Presidents-Collin, Ruston, Wistar.

Secretaries—Barton (W), Bleakley, Magaw, Patterson.

Councillors- Smith (W.), Smith (J. B.), Currie, White.

Curators-Barton (B. S.), Parke, Peale.

Treasurer-Vaughan.

1795. Jan'y 16. (Collin, McKean, Boardley, Page, Ruston, Ellicot, Dr. Barton, Magaw, Davidson, Peale, Patterson, Nicholson and Moreau de St. Mery.)

[M. de St. Mery presented to the Society four wooden locks used by the country people of St. Domingo—hair and stone balls taken from animals—an Oriental bezoir—ebony and cochenille [sic] from Hispaniola—petrefactions from Martinique—small whale-tooth—cocoanut—copper and iron ores from the Pyrenees—a little idol from Hispaniola—insects—and a medal of Louis XVI, July 17, 1789.]

The Annals of the Society of Scots Antiquaries, and a copy of their Minute book, sent by the Earl of Buchan with thanks for his election. "Also a cast representing himself."

Election of six new members: Earl of Dundonald; S. Wheeler, of Philadelphia; Tim. Pickering, Secretary of War, United States; Robert Leslie, watchmaker, of Philadelphia, now at London; Gustaf Von Carleson, Sweden; Revd. Val. Melscheimer, of Hanover, Pennsylvania.

Nicholson and Patterson to audit Treasurer's accounts.

1795. Feb'y 6. (Collin, Williams, Ellicott [sic], Ruston, McKean, Buchanan, Andrews, Wistar, Peale, M. de St. Mery, W. Barton, Patterson.)

Bust of Rittenhouse. "A letter from Mr. Cerrachi [first spelled Cerachie & then erased] accompanying a bust in marble of the President of the Society executed by Mr. Cerachi [sic] [first spelled Cerachie & then erased] & by him presented to the Society was received."

Council recommended that measures be taken to publish soon papers on hand, and "in future an annual publication of their Transactions without regard to size."

Also "to allot a certain sum to be disposed of in premiums to the authors of the best essays or performances on certain specific subjects of useful Knowledge to be proposed annually by the Society."

Both recommendations adopted, and the Council (or any five of them) to report at the first meeting in March on the papers on hand.

Premiums: Williams, Ellicot, Barton, Ruston, Wistar, Patterson, St. Mery, Collin, Peale, Magaw, W. Barton, and Nicholson, a Committee to inform themselves of the state of the Society's funds and report: "1. What premiums the Society can consistently offer. 2. What subjects of useful knowledge shall at present be proposed as objects of these premiums."

St. Mery presented a silver medal of Louis XV., struck on the occasion of the peace of 1763.

Two elegant specimens of printing in gilt letters: 1. A part of Magna Charta on Satin; 2. The Dream of Scipio on deep green satin paper, from Mr. Jno. Beckley.

1795. Feb'y 20. (Ruston, McKean, Ellicott, Dr. Barton, J. B. Smith, Williams, St. Mery, Patterson.)

"The Committee of twelve" was continued.

1795. March 6. (Ruston, Collin, Magaw, Wistar, J. B. Smith, Ellicott, Bleakley, St. Mery, Nicholson, W. Barton, Patterson, Thornton, Williams, Nassey.)

"On a more effectual way of extinguishing fire" by Sieur Varle, was read.

The Committee of twelve reported several subjects from which the Society selected:

- "1. An essay on a system of liberal education & literary instruction, adapted to the genius of the government, & best calculated to promote the general welfare of the United States:—Comprehending also, a plan for instituting & conducting public schools in this country on principles of the most extensive utility.
 - "2. An improvement on ship-pumps.
 - "3. The most economical method of warming rooms.
- "4. The easiest & most expeditious method of computing the longitude from lunar observation.
 - "5. The best essay on American vegetable dies.
 - "6. The best method of preserving Peach trees from premature decay."

W. Barton, Wistar, Collin, Peale, Patterson, to prepare a draft of the premiums "on the above subjects with the respective terms & conditions on which they will be awarded."

1795. March 20. (Wistar, Ellicott, Vaughan, Peale, Barton, Currie, St. Mery, Patterson.)

Rediger's account £2 ·· 6 ·· 3 passed.

Account from the estate of Thos. Clifford, deceased. $\pm 14 \cdot 17 \cdot 6$ presented and passed.

1795. April 3. (Collin; Maddison [sic], Bleakley, W. Barton, Ellicott, Barton, Patterson.)

"On wool-bearing animals, by Prof. Anderson of Edinburgh," read. A shawl made of the wool of the common goat of Russia presented.

"On the aberration, nutation and semi-annual equation of the stars, with a number of misc. astro. obs. by Mr. A. Ellicot [sic] was read."

1795. April 17. (Collin, Nancarrow and 10 others present.)

Memoirs American Academy Arts and Sciences, Vol. II, Part I, received. Exchange of Transactions American Philosophical Society, Vol. III, ordered.

Weights and Measures. "A number of printed reports presented to the National Convention of France, with a decree of the Convention, on the subject presented by M^{r.} Rich. Smith of this city." Adjourned to Thursday evening.

1795. April 23. [Special.] (Collin, Pettit, Ellicott, Magaw, Barton, Wistar, Nancarrow, St. Mery, Peale, Bleakley, Patterson.)

Committee on Premiums (March 6) reported; but their being no quorum for business, it was deferred.

1795. May 1. (Parke, Currie, Wheeler, Andrews, Blackwell, and 16 others present.)

The Committee's report was considered and adopted:

- 1. On Education \$100. Papers rec^d up to Jan. 1, 1797.
- 2. On Longitude \$70. "The particular view of the Society in proposing this subject, is, that the solution of this most useful problem may, if possible, be rendered so plain & easy as to be readily learned by every mariner, even of moderate capacity, who understands the common rules of arithmetic; and thus be introduced into general practise." Papers rec^d up to May 1, 1796.

3. On Ship-pumps \$70. "Improvements that may be readily applied to the ship-pump in common use will be most likely to be

adopted by seamen " Papers recd up to April 1, 1796.

4. "For the best construction of stoves or fireplaces—a premium of \$60. The principal end in view is the benefit of the poorer class of people, especially of such as live in towns or other places where fuel is dear. The stove should be cheap & of durable materials; should afford the necessary degree of a salubrious & durable heat, with the least expence of fuel possible; & should be capable of being employed both for the purpose of warming the room & cooking provisions for the family.

"The Society have been informed that stoves made of brick are, in many respects, superior to those made of metal; especially in the saving of fuel, and preserving a more equable degree of heat." Papers

recd up to Jan. 1, 1797.

- 5. On Preservation of Peach trees \$60; --up to Jan. 1, 1798.
- 6. On American vegetable dies, "accompanied with an accurate account or description of the vegetables employed \$90." Papers rec^d up to Feby 1, 1798.

7. "For the best construction, or improvement of lamps, especially for lighting the Streets, \$50." Papers rec^a up to July 1, 1796.

General conditions.—1. Name & residence in a sealed letter, only to be opened if successfull.—2. Nothing already patented or rewarded entitled to a premium.—3. Money, or a gold or silver medal, optional with the candidate.—4. Right reserved to adjudge a part only of the premium money, for an essay of "no merit above what may have been already published on the subject. The candidates may however be assured that the Society will always judge liberally of their several claims."

1795. May 15. (Collin and 8 others.)

- "On the expansion of wood by heat" by Rittenhouse, read.
 - "An authentic picture of Copernicus" on the lid of "a

box of Yew;" "and on the inside one of Napier;" sent by the Earl of Buchan; who "consecrates this curious piece of furniture to the Society; desiring however that Dr. Rittenhouse should have the use & custody of it during his life, producing it occasionally when he thinks proper."

Dr. Dan. Gross of New York, sent a copy of his Principles of Rectitude. Memoirs Royal Astronomical Society, Turin, Vol. V (1790-1) received. Transactions American Philosophical Society, Vol. III, ordered sent in return.

Mr. Peale received permission to exhibit the Rittenhouse bust at the Exhibition of the American Academy of Arts, "on his obtaining the consent of the President."

1795. June 19. (Ruston, Hazard, W. Barton, Nancarrow, Duffield, Barton, Nassey, St. Mery, Bleakley, Beauvois, Patterson.)

Mease on Hydrophobia; Mosely on West India diseases, and on Coffee (fifth edition); Caldwell's translation of Blumenbach's Institutes received.

Essay on Ship-pumps; for the prize; A. L. O. T. A.

Dr. Nassey wrote that he intended returning to Surinam, and wished to be useful to the Society there.

"An easy way of determining the true place of a planet directly from the mean anomaly by converging series" by Rittenhouse, was read.

An Inaug. Diss. on the Phytolaria decandria (Pond weed) by Dr. B. Schultz, was received.

1795. July 17. (Ruston and 8 others.)

Communications read:

Additional Observations on wool-bearing animals and sample of a West India sheep's wool;

"Heads of a plan for establishing a universal written language" with books; also—

Samples of East Indian areca nuts; some of which were

given to Bartram's garden & some planted by Dr. Collin in his own; from Dr. Anderson, of Colefield, near Leath.

Ebeling's U. S. Geography, Vol. II. Thanks ordered to

Anderson, and to Ebeling.

"Improvement on Ship-pumps" for the premium. Signature Ctesebes.

1795. Aug. 21. (Peale; and 6 others.)

A new and easy way of calculating logarithms; a paper from Rittenhouse.

Additional observation on preventing the decay of Peach trees in a letter from H. Guest, of Brunswick; also on the use of leather for shingling roofs and for copper in sheathing ships' bottoms.

A Meteorological instrument, wheel barometer ("the tube broken"), thermometer and hygrometer combined, was sent by Ch. Goring, of London. Thanks ordered.

Lorimer's (of London) Essay on Magnetism, from the author, and Cowley's Solid Geometry, from the editor, Jones, of London; also Jones' description of a new portable Orrery. Thanks ordered.

Special meeting of officers called for second Friday, September 7 P. M.

Description of a new plant, *Heterandra uniformis*, found near Philadelphia, by Mr. Beauvois, read.

1795. Sep. 18. (Beauvois, Barton, Vaughan, Peale, Wistar, Patterson.)

Communications for the Magellanic premium.

On prevention of premature decay of Peach trees; *Modestus*. Improvement of Ships' windlasses; *Americus*.

Carré's Essay on the Natural History of St. Domingo, from the author. Mr. Bleakley was directed to acknowledge the receipt of the above donations.

Officers ordered to report list of papers worthy to be published in Vol. IV.

The officers having met September 11, and recommended as an immediate step toward publishing a contract with some printer "to execute the work without any expence to the Society—he delivering to the Society a certain number of copies to be distributed as donations to other similar Societies and the Society transferring to him a copyright to the publication. The above recommendation was agreed to, & the Treasurer, Mr. Vaughan, was appointed to receive proposals & report"

1795. Oct. 2. (Peale; Currie, St. Mery, Magaw, Bleakley, Barton, Beauvois, Patterson.)

Officers reported a list of papers for publication, and it was filed with the papers. The following new communications were read:

An inquiry into the causes of the unwholesomeness of low & marshy situations, by Dr. Currie.

An account of an American Dipus or Jerboa, by Dr. Barton.

St. Mery presented Vol. VI, Laws of St. Domingo.

1795. Oct. 16. (9 present.)

Stewart and Cochran's bill for printing at different times 4000 blank notices, £4 ·· 6 ·· 3, allowed.

Further observation on the preservation of Peach trees, and on sundry other subjects in another letter from H. Guest, of Brunswick.

On hearths; for the premium. [No signature given.]

1795. Nov. 6. (Collin, Barton, Currie, Peale, Patterson.) Fulham's Essay on Combustion, &c., presented.

1795. Nov. 20. (Wistar, Williams, Nancarrow, Ellicott, Peale, Bleakley, Patterson.)

On the barometrical measurement of the Blue Ridge,

Warm Spring and Alleghany Mountains, in 1791, with a journal of observations, by Jon. Williams, read.

Specification of a machine for spinning flax, hemp or tow,

by Peter Craig, read.

Spanish translation of Williams' Use of the Thermometer in Navigation (Transactions American Philosophical Society, Vol. III), with a review of it by one of the Directors of the Marine Academy of Spain, presented. Also Jones' pamphlet on various methods of finding a true meridian line.

1795. Dec. 4. (Collin, Parke, Barton, Currie, Ellicott, Peale, Patterson.)

Cases of cure; two letters from Henry Guest, read.

Miscellaneous Observations on the Western countries, particularly in the neighborhood of Lake Erie; paper from Ellicot [sic], read.

On hoar frost; paper by Dr. Caldwell, Philadelphia, read.

1795. Dec. 18. (Parke, Barton, Ellicott, Dr. Stevens, Bleakley, J. B. Smith, Patterson.)

Cases of cure; letter from Henry Guest, read.

Effects of heat and vitiated air in the production of diseases; paper from Dr. W. Barnwell, Philadelphia, read.

1796. Jan'y 1. (Rittenhouse, and 10 others.)

ELECTION OF OFFICERS.

President—Rittenhouse.
Vice-Presidents—Collin, W. Smith, C. Wistar.
Curators—Peale, B. S. Barton, Parke.
Councillors—Blackwell, McKean, Davidson, Kuhn.
Secretaries—Magaw, W. Barton, Bleakley, Patterson.
Treasurer—Vaughan.

1796. Jan'y 15. (18 present.)

Election of 15 new members: Dr. Grassi, late of Bordeaux, now of Philadelphia; Dr. Deveze,* physician of the late Hospital at Bushhill;† Dr. Bedford, of Pittsburgh; Is. Briggs, of Montgomery county, Maryland; La Rochefoucauld Liancour [sic], Mem. Société d'Agriculture, Paris, now of Philadelphia; Dr. Hugh Hodge, Philadelphia; J. M. le Fessier de Grandpré; John F. Mifflin; Tench Coxe; and Rich. Peters Smith, of Philadelphia; F. W. Le Comte,‡ of Paris; Jas. Ed. Smith, M.D., F.R.S., President Linnæan Society; Citizen Adet, Minister Plenipotentiary French Republic to United States; W. Dandridge Peck, Kittery, New Hampshire; Jas. Woodhouse, M.D., Professor Chemistry, University, Pennsylvania.

Fifteenth case of cure of cancer; letter from Guest, read.

A pair of globes, "more accurate than any hitherto constructed," as soon as ready, would be given to the Society by W. Jones, London; letter read from him to that effect.

Calculating the Longitude; letter from candidate for the premium, read.

Barton, Patterson, Auditing Committee, "to consider the propriety of vesting the balance in deferred stock, or some other kind of productive fund, and report"

St. Mery's two pamphlets on horse breeding.

All the numbers of the Courier de la France up to date, presented by St. Mery, with a promise of continuance.

1796. Feb'y 5. (Maddison [sic], McKean, Tench Coxe, Dr. Grassi, Citizen Adet, Liancourt, Deveze and 13 others present.)

Audit—Balance, December 3, £35 · 3 · 11, "belonging to the proper funds of the Society, and £207 · 10 · 8 belonging to the Magellanic fund." Motion that this last be invested

[·] Origin of Dewecs.

t For yellow fever patients of '93.

This name is printed in Catalogue of March, 1880, as F. H. Le Comte. In the original minutes the letter seems more like W than H.

in the Insurance Company of North America laid on the table.

Experiments and Observations relating to the analysis of

atmospheric air, by Dr. Priestley, paper read.

Thos. Dobson's proposal: Will give for the Society's copyright of Vol. IV, 100 copies in boards. Will open a subscription; the price of a copy in boards to be \$2, if within six months of time of publication; and \$3, if not subscribed for.

"Two Indian leggings of buckskin ornamented with Indian's hair and porcupine quills, from a nation of Indians high up the Missouri who never but once saw a white man," and given by Zenon Trudeaux, Commandant of St. Louis to Judge Turner, was sent by Judge Turner to the Society.

"An Indian pipe of curious workmanship made of some kind of stone of a beautiful flesh colour, and inlaid with

pewter," was presented through Dr. Collin.

A French pamphlet on the Prisons of Philadelphia, by a European, with an English translation, published by St. Mery, was presented by him.

De Brahm's Apocalyptic Gnomon; and later Vols. of Encyclopedia to Vol. XV; presented by Mr. Dobson.

1796. Feb'y 19. (Smith, Vice-President; Collin, Priestley, Ellicot [sic], Andrews, St. Mery, Parke, B. S. Barton, Bleakley, De Liancour, Page, Blackwell, Vaughan, Peale, Magaw, Patterson.)

"The generation of air from water" a paper by Dr. Priestley, was read.

"Indian antiquities & an account of them" were presented with a letter from Col. Sergeant of the Western Territory, and entrusted to Dr. Barton, who wished to prepare drawings of them for the Society.

The investment of the Magellanic Fund in North American Insurance Company was called up and agreed to.

A French description and drawing of a new animal dis-

covered by M. Beauvois in New Jersey, was ordered to be translated for reading before the Society.

1796.

- "Mr. Peale presented to the Society a young son of four months and four days old, being the first child born in the Philosophical Hall, and requested that the Society would give him a name. On which the Society unanimously agreed that, after the name of the chief founder & late President of the Society, he should be called *Franklin*."
- 1796. March 4. (Collin, Peale, Coxe, Magaw, Vaughan, Hodge, Alison [sic], Grassi, De Liancourt, Page, Woodhouse, Parke, Ellicot [sic], W. Barton, Patterson.)

Beauvois' paper (in English), was read.

- 1796. March 18. (Priestley, Peale, Hodge, Beauvois, R. Smith, Magaw, Woodhouse, Vaughan, Patterson.)
- "A geometric demonstration of the common rule for extracting the square root," in a letter from Isaac Story, of Marblehead, was read.
- 1796. April 1. (Wistar, Ellicot [sic], Woodhouse, Adet, Peale, Currie, R. Smith, Page, Patterson.)
- "On a remarkable stratagem of a little bird called the Janus exantitor" in a letter from Mr. John Heckewelder, of Bethlehem, was read.
- 1796. April 15. (McKean, Woodhouse, Coxe, Ellicot [sic], Vaughan, Wheeler, Priestley, Peale, Magaw, Barton, Collin, Patterson, St. Mery, Parke, R. Smith, Ruston, Deveze.)

Election of five new members: The Chev. C. R. Freiré, Minister of Portugal to United States; Alex. Leribours, late of Paris, now of Philadelphia*; A. J. Larocque; Mr. Talleyrand Perigord; Revd. Mr. Jas. Abercrombie, of Philadelphia.

[.] In Catalogue of March, 1880, spelled Lerebours.

Treasurer reported the purchase of 33 shares of North American Insurance Company at \$15 = \$495, "from moneys in his hands arising from the Magellanic Fund"

1796. May 6. (Wistar, Priestley, Deveze, Leribours, Ruston, Ellicott, Wheeler, Patterson, Coxe, Peale, R. Smith.)

A working model of an improved ship's pump, offered by John Blanch, for the Society's premium.

A new method of treating effusions under the skull after

fractures, an essay by Dr. Deveze.

Time for receiving papers on Lunar Latitude and Ship's pumps, extended to January 1, 1797; for papers on Lamps, extended to April 1, 1797.

"Corresponding Secretaries" Barton and Bleakley ordered to republish an abstract of the conditions respecting the Magellanic premium, and of the premiums offered by this Society, in the newspapers, and in 200 handbills for distribution.

1796. May 20. (Currie, Bleakley, Barton, Andrews, Woodhouse, St. Mery, Abercrombie, Peale, Deveze, R. Smith, Davidson, Wheeler, Duffield, Magaw, Wistar, Vaughan, Patterson.)

Books presented: St. Mery's Descrip. top. et pol. de la partie Espagnole de S. Domingue, I, II; and his *Danse*; J. Ingen-Housz's Essay on the food of plants.

"Conjectures &c [on Sergeant's donations]" by Dr. Barton in a letter to Dr. Priestley.*

1796. July 1. Special Meeting on Rittenhouse's death. (Adet, Nicholson, Matlack, White and 22 others.)

Resolved "That this Society, deeply affected by the death of their late worthy President, do resolve—That an Eulogium, commemorative of his distinguished talents & services, be publickly pronounced"

^{*}Vide minutes Feb. 19, 1796.

1796. July 5. Special Meeting to appoint the orator. (W. Smith, Duponceau, and 20 others.)

"The Society proceeded to the election of a member to prepare & pronounce the Eulogium Dr. Benjamin Rush was duly chosen." Collin and Patterson to inform him of the fact.

1796. July 15. (McKean, Chairman; Bleakley, St. Mery, Pettit, Wheeler, Hodge, Ellicott, Barton, W. Barton, Peale, Nancarrow, Woodhouse, Currie, Patterson.)

Books: Thirteen dissertations, from Thornberger, President of the Upsal University; St. Mery's St. Domingo, and an Inaugural Dissertation on fever by Dr. Caldwell.

Catalogue of the books belonging to the Society, presented, in the form of a draught by Mr. Peale. Bleakley and St. Mery, a Committee "to assist the Curators in comparing the above with the titles of the Books and correcting the same where necessary."

"Telegraph erected between London & Deale," drawing and description, in a letter from H. Hill.

Election of five new members: Dr. Isaac Cathrall, L. E. Duhail, M.D., Consul for Maryland; Don Joseph de Jaudennes [titles]; Joanne Paptista [sic] Cuñat, D. C. L., Professor University, Valencia; Don Luis de Urbina, Captain-General, Valencia, and President Royal Society, Valencia.

1796. Aug. 19. (Coxe, Peale, Ellicott, Abercrombie, Woodhouse, Wistar, Barton, Vaughan, R. P. Smith, Magaw, Patterson.)

Bleakley and St. Mery to report on the expediency and expense of printing the Catalogue.

Ebeling's Geog. & Hist. description of America; Transactions Philada. College Physicians, Vol. I, Part 1; thanks ordered for both.

Jefferson's letter to Rittenhouse [deceased], describing

Bones of extraordinary size found beyond the Blue Mountains in Virginia, "appearing to be of the Tyger-lion & Panther species," was read by Dr. Barton.

Valltraver's [sic] letter to Jefferson, from Altona, September 16, 1796, "proposing an exchange of subjects of natu-

ral history." A draft of an answer ordered.

"The causes why the countries in the U.S. are much colder in winter than those in the same latitudes in Europe," and "Why the eastern sides of both the northern continents are colder than the western," a paper by Dr. Barnwell, was read.

The Society's Achromatic Telescope, was ordered to be lent to the Secretary of State, "for the use of the Commissioners in determining the southern boundary between the U. S. & the Spanish territory," "the Curators taking a receipt therefor, with an obligation to replace the same with one of equal goodness in case of any accident happening thereto."

(Peale, Coxe, Vaughan, Hodge, Barton, 1796. Sept. 16. W. Barton, Woodhouse, Currie, Bleakley, R. P. Smith, Patterson.)

An improvement in street lamps suggested, in a letter from John Hall, of Trenton.

"Supplementum Indicis floræ Lancastriensis," by H. Muhlenberg, presented and ordered for publication.

Jaudennes and Cuñat acknowledged "receipt of their diplomas."

"Hints relative to the Stimulant effects of Camphor upon vegetables," by Dr. Barton, read.

"Facts relative to Henry Moss, a white negroe [sic], now

in this city," by Dr. Barton, read.

Coxe, W. Barton, Bleakley, Patterson, Committee to "confer with Mrs. Rittenhouse on a proposal made by her through Dr. Barton relative to investing the Observatory of the late President in the Society."

"Observations made with a small zenith sector of 20 inches radius on old French landing at Presqu' Isle to determine the latitude of the town of Erie," by Mr. Ellicott, read.

1796. Oct. 7. (Williams, Woodhouse, Vaughan, Barton, W. Barton, Magaw, Grassi, Adet, Peale, Bleakley, Wistar, Patterson.)

Perkinson's proposal, in Valtraver's [sic] letter, answer of the Secretaries, read and ordered forwarded; also Perkinson's proposal "to be printed in some of the Papers which have the most extensive circulation throughout the U.S."

Peale added to the Catalogue Committee.

Mrs. Rittenhouse having expressed to the Committee "a desire to invest in the Society the Observatory, with a certain quantity of ground leading thereto,

"Resolved that this Society will with the greatest pleasure accept of the trust."

Corresponding Secretaries ordered to distribute "throughout the U. S. & Europe the papers containing the premiums offered by the Society"

"A communication from M^{r.} W. Crowley Jourdan relative to the Longitude was presented by D^{r.} Magaw." Abercrombie, Patterson, Magaw to confer with Jourdan.

Barton and Magaw "to wait on Dr. Smith and apply to him for such books and papers belonging to the Society, as may be in his possession."

1796. Oct. 21. (McKean, St. Mery, Morgan, Andrews, Blackwell, Wheler [sic], Cathral [sic], Hutchins, and 19 others = 27.)

Catalogue Committee reported in favor of printing the Catalogue, estimating the expense for 500 copies at \$80. Committee ordered to revise the copy, abridge the titles and "particularize the edition of each work."

"Resolved, that in future when any candidate for membership shall have been postponed at two elections, his name shall be considered as withdrawn."

Committee "to confer with Jourdan relative to his paper on the discovery of longitude," desired to report next meeting.

Election of a new member: Dr. C. Caldwell.

Gustavus Carlson's "Museum Carlsonianum," 2 Vols., presented; 3d Vol. kept back for binding.

1796. Nov. 4. (12 present.)

R. Smith substituted for Peale on Catalogue Committee. Recording Secretary ordered to present a schedule of business referred to Committees, unreported. Barton and W. Barton requested to report on their business, March 19th.

1796. Nov. 18. (Wistar, Rush, Peale, Duffield, Patterson.)

Journal des Arts et Manufactures, eight numbers, presented. Thanks to M. Lerebours ordered.

Dr. Rush reported that he had prepared the Eulogium on Rittenhouse; Bleakley, Vaughan, Peale, Magaw, Patterson, appointed to report a time and place for its delivery.

Endiometric experiments and observations on sea and land, at different seasons, by Dr. Adam Seybert; paper read by Dr. Wistar.

1796. Dec. 2. (Smith, Wistar, Rush, Bleakley, Liancourt, St. Mery, Peale, Barton, Patterson.)

Eulogium Committee reporting "they had obtained the privilege of the [First] Presbyterian church in Market street," "proposed Saturday the 17th instant at noon..." [Here follows a list of invitations, as in the case of the Eulogy on Franklin, commencing with "The President of the U.S. & his family," and closing with "College of Phy-

sicians, Family of M^{rs.} Rittenhouse, M^{r.} Benjamin Rittenhouse, Family of D^{r.} Rush."]—"The former Com. to be continued for the purpose of carrying the above into effect."

"Mr Vaughan from the Committee relative to the insuring of the Hall, reported that the insurance could be effected by the Ins. Co. of N. A. at 30 cents on 100 dollars on house or furniture per annum."

St. Mery presented a copy of "Idée generale...des sciences...a l'usage de la Jeunesse, 12^{mo}."

Ordered, that the Society meet at their Hall at 11 A. M. December 17th, and proceed to the Church.

1796. Dec. 16. (16 present.)

Peale and Vaughan "appointed to superintend & direct the introduction of the public bodies &c to their seats tomorrow in the Church"

"It was moved & agreed that certain characters highly respectable, who have not yet been invited, should have tickets of invitation sent to them as soon as possible, viz. M^{r.} Boudinot, Director of the Mint, D^{r.} Way, Treasurer of the Mint, M^{r.} Meredith, Treas. U. S., M^{r.} Steele, Comptroller of the Treasury, M^{r.} Harrison, Auditor of the Treasury, M^{r.} Nourse, Register of the Treasury, M^{r.} Francis, Purveyor of the Treasury, M^{r.} Habersham, Postmaster General, M^{r.} Lee, Attorney General."

A Committee to amend existing rules for adjudging the Magellanic premium: Ingersoll, Dr. Smith, Patterson, Coxe and Williams.

Jourdan could give to the Committee on his letter, no further information than was contained in the letter itself.

The Michaux Committee (April, 1793,) reported that " M^{r} Michaux's proposed plan had failed."

"The Society continue this present meeting by adjournment till this day fortnight."

1796. Dec. 17. at 11 A. M. (31 present.)

Procession to the Church. Eulogium on Rittenhouse by Dr. Rush, "before a crowded & respectable audience."

Return to the Hall. Thanks voted to Dr. Rush "for his eloquent, learned, comprehensive & just Eulogium" and copy requested for publication. Thanks also to "the Corporation of the First Presbyterian Church" for the "use of their large elegant Building on High street"

1796. Dec. 21. Special Meeting. [Continued by adjournment.] (15 present.)

Committee to agree with a Bookseller for printing the Eulogium, "reserving to the Society a certain number of copies for . . . donations, and stipulating for the right of having it reprinted and inserted by the printer of their Transactions in one of their volumes." Bleakley, Patterson, W. Barton, Committee of arrangement to draw on the Treasurer for expenses incurred.

1796. Dec. 30. Adjourned Meeting. (Doctors Smith, Collin, Barton, Woodhouse, Cathrall, Magaw, Wistar, and Messrs. W. Barton, Blakeley, Patterson, Peale, Williams.)

"Remarks on Education Virtue & Wisdom Liberal Education," &c. A dissertation presented.

"A letter to the A. P. S. in answer to their first prize question best system of Liberal Education & Literary Instruction," &c.

"Essay on Education," "contents on 2^d page," in all 200 pages.

"Sealed letters accompany the above severally."

Committee reported any change in the rules inexpedient.

"On fireplaces;" a communication for the premium.

Rules reported by the officers, at a meeting held on the 23d inst., considered and postponed. Notice of final discussion at a following meeting ordered.

1797. Jan'y 6. 2-5 P. M. (J. Vaughan, R. Patterson, C. W. Peale, T. Coxe [sic], W. Barton, J. Williams, Bickley, St. Mery, R. P. Smith, Prof. Jas. Davidson, Blakely [sic], J. Abercrombie, J. B. Smith, Wheeler, Page, of Virginia; Doctors Caldwell, Currie, Barton, Duffield, Woodhouse, Collin, W. Shippen, W. White, S. Magaw, and Hugh Williamson, of North Carolina.

Messrs. Tench Cox [sic], C. W. Peale and W. Barton, Judges of the Annual Election.

President—Thomas Jefferson.

Vice-Presidents—Caspar Wistar, Ben. Rush, Nich. Collin. Secretaries—W. Barton, J. Bleakley, S. Magaw, Jon. Williams.

Treasurer-J. Vaughan.

Curators—C. W. Peale, Dr. B. S. Barton, Prof. Rob. Patterson.

Councillors for 3 years—Tench Cox [sic], Revd. Jas. Abercrombie Rich. P. Smith.

1797. Jan'y 20. (J. B. Smith, De Liancourt, Lelabour [sic], Dr. Is. Cathrall, and 16 others.)

Election of seven new members: Thos. C. James, Adam Seybert, M.D., and S. H. Smith, printer of the "New World" newspaper, of Philadelphia; John Newnan, M.D., of Salsbury [sic], North Carolina; Andrews Everardus Van Braam Houckgeest, of Bristol, Pennsylvania, formerly President Society of Harlem in Holland, member and author of Travels of the Dutch Embassy in China; Mozard, Consul French Republic at Boston; M. Volney, author of "the Ruins of Empire," &c., and Professor of the French National Institute.

Letter respecting the Prize subject of Education, introducing a Dissertation with the signature "Academicus," but without view to competition.

"Short account of the Situation, soil, productions, &c. of

the State of Tenassee [sic]," by John Newnan; reading of this MS. postponed.

Nominations ordered for the next meeting, out of which at the following meeting, the annual orator should be elected.

1797. Jan'y 27. (Dr. Priestley, Seybert, Beauvois, R. P. Smith and 8 others.)

Rules proposed by the officers, read and amended to read.

1. All By-Laws & Regulations in the Minutes not already obsolete shall be collected in the Book of the fundamental Articles of Charter, to be kept on the table during meetings.

2. A tabular "statement of the buisness [sic] directed by the Constitution or Laws, or otherwise, to be transacted at certain periods, shall be annexed to the Laws."

3. Not more than one hour at any stated meeting shall be allotted for incidental business; Unfinished business to be adjourned to the next or an extra meeting, unless otherwise unanimously ordered.

4. A Record Book of all important verbal communications to be kept by the Secretaries.

5. Any member, at a stated meeting, may propose a question on any Philosophical Subject, to be entered in a Book. At a future meeting, after other business, members shall be called on to state their sentiments or observations on the question, & a summary of the most interesting recorded in the Book.

Secretaries "directed to carry into effect Rules 1 and 2, and provide a Book answerable to Rules 4 and 5."

"Remarks on Education, illustrating the close Connection of Virtue & Wisdom," taken up for examination and about a third part of it read. Note. "Call the above, Num. 1." [Here a blank page is left.]

1797. Feb'y 3. (Smith (W), Collin, Caldwell, Beauvois, Bleakley, W. Barton, Seybert, Alex. Le Rebour [sic], Newnan, Mr. Smith, Currie, Peale, Patterson, Abercrombie, St. Mery, Dr. Cather (Dr. Catherall, written in a later and another hand), Dr. James, Davidson, Wistar, Magaw.)

The reading of I'rize essay No. 1 finished, and referred to

Bleakley, Davidson and Magaw to report "an Analasis [sic] or compendious View of the Performance."

Agreed to keep the nomination open for annual orator until the time of beginning to elect; and that a majority of members present elect; if no election, then balloting for the three highest.

Dr. Priestley was elected orator. Date agreed on, the last Saturday of December. W. Barton, Patterson, Magaw, Committee to inform Dr. Priestley.

Committee on Mrs. Rittenhouse's Deed of ground asked time.

John Ormrod, stationer, having delivered the stipulated number of copies of the Eulogium, "The Society entertain a due sense of his punctuality & handsome execution of the business—" but "deem it right to return to Mr. Ormrod 206 copies," in excess of their need for donations.—100 were entrusted to W. Barton, Vaughan and Lerebour [sic], a Committee of Distribution "abroad."

Communications signed "A,"—" Freedom,"—" Economy," —were received.

1797. Feb'y 10. (W. Smith, Peale, Newnan, Vaughan, Wistar, Beauvois, Magaw and Judge Turner from the Northwestern Territory.)

The Oration Committee had "waited on Dr. Priestley last Monday forenoon, who received the information with great politeness, but declined accepting of the appointment."

Jefferson's letter from Monticello, Virginia, "expressing in the most polite terms the sense he entertained of the Honour done him at the late election, in choosing him President—with sundry other interesting particulars."

Essay on Education, No. 2, was read as far as "7 sections complete, in 92 pages."

"A variety of very curious & interesting articles from different parts of the Western Country—particularly from Missouri, Missisippi [sic] and Tenessee [sic], tending to

throw some illustration on the Indian Antiquities of N. A. were presented by Judge Turner" who undertakes to label them all soon. "Honorable mention was made of the above."

"Note. see pag. 148." [On pp. 147, 148, 157, in minutes

of February 24, is the list of twenty-five articles.]

"The Stated business of the evening being closed, incidental conversation for some time ensued on Philosophical matters."

1797. Feb'y 17. (Page, of Virginia; Judge Turner, Peale, Dr. Barton, Nancarrow, Beauvois, Rich. Smith, Legeau [sic], J. B. Smith, James, Seybert, Collin, Wistar, W. Barton, Patterson, S. Smith, Magaw.)

Mr. Hobrow's paper on the best construction of street lamps, dated Middleton Point, Monmouth county, New Jersey, October 1, 1796, was read.

Dr. Barton was chosen annual orator.

"Calculations relative to grist & saw mills quantity of water given head in order to ascertain the dimensions of a new invented steam-engine intended to give motion to water-wheels where there is no fall, & but a very small stream or spring," by Dr. Nancarrow, received and reading postponed, "but honorable mention made of the author's favour done to the Society."

"Remarks, instructions and examples relating to the lat. & long., variation &c.," a treatise by Thos. Truxtone * [sic]. Thanks ordered.

Dr. Barton accepts.

"Dutrait,† Consul," acknowledges his diploma by letter dated "Norfolk, Pluviose 6th 5th year of the French Republic (Jan'y 26, 1797)."

Newnan's communication (January 20), read.

"An electrical machine to produce flame by the sudden contact of the electrical fluid with inflammable air or gas,"

^{*} Of Revolutionary fame.

[†] This name occurs elsewhere in several places as Duhail,

some time ago presented by M^{r.} Legaux to M^{r.} Wm. Rawle, is now presented, with M^{r.} Legaux's consent, to the Society, with a letter from Rawle to Wistar. "Respectful acknowledgments." ordered.

Jefferson's letter of acceptance read again, and ordered on the minutes. [Here follow the letter of the Secretaries to Jefferson, 1½ pages, and Jefferson's reply, 3 pages, large open handwriting.]

PHILADELPHIA, Jan'y 7, 1797.

SIR.

We have the pleasure of informing you, that at the annual Election of Officers of the American Philosophical Society for promoting useful knowledge, held at Philadelphia. on the 6th inst., you were chosen President of that respectable Institution.

The Society, Sir, cannot soon forget the loss they sustained by the death of the late worthy and ingenious D. Rittenhouse. But after expressing their grief on this melancholy occasion, they look forward, with this consoling reflection, that in the same Chair from which two American Philosophers have successively instructed them and the World, a Third is now seated, by whose Genius and knowledge, our National Name will preserve a distinguished place in the annals of Science.

Permit us, Sir, on this occasion to express our satisfaction in this pleasing Event, and in being the Organs by which the Society announce their Choice.

We are with sentiments of Esteem & Respect,

Sir

Your obed! Servants.

S. M.

J. W.

W. B.

J. B.

Secretaries of the Amer. Phil. Socty.

Mr. Jefferson's Answer.

MONTICELLO, Jany 28th, 1797.

GENTLEMEN.

I have duly received your favour of the 7th instant, informing me, that the American Philosophical Society have been pleased to name me their President. The suffrage of a body which comprehends whatever the American World has of distinction in Philosophy & Science in general, is the most flattering incident of my life, and that to which I am the most sensible. My satisfaction would be complete, were it not for the conscious-

ness that it is far beyond my titles. I feel no qualification for this distinguished Post, but a sincere zeal for all the Objects of our institution, and an ardent desire to see knowledge so disseminated through the mass of mankind, that it may at length reach the extremes of Society, beggars, and kings.—I pray you, Gentlemen, to testify for me, to our body my sense of their favour, and my dispositions to supply by zeal what I may be deficient in the other qualifications proper for their service, and to be assured that your testimony cannot go beyond my feelings.

Permit me to avail myself of this opportunity of expressing the sincere Grief I feel for the loss of our beloved Rittenhouse. Genius, Science, modesty, purity of morals, simplicity of manners, marked him one of Nature's best samples of the Perfection she can cover under the human form. Surely, no Society, till ours, within the same compass of time, ever had to deplore the loss of two such members as Franklin & Rittenhouse. Franklin, our Patriarch, whom Philosophy & Philanthropy announced the first of men, and whose name will be like a star of the first magnitude in the firmanent of heaven, when the memory of those who have surrounded & obscured him, will be lost in the Abyss of time.

With the most affectionate attachment to their memory; and with sentiments of the highest Respect to the Society, and to yourselves personally, I have the Honour to be,

Gentlemen

Your most obedient
and most humble Servan^t
Signed TH. JEFFERSON.

1797. Feb'y 24. Adjourned Meeting. (11 present.)

Essay on Education (No. 2); reading finished.

Letter to the American Philosophical Society (No. 3), read in part.

List of Western curiosities, presented by Judge Turner, February 10. Indian boy's leggings; calumet; conjuror's mask; bone headed arrow; eight common Miami arrows; stone pestle; "stone hatchet formerly in use among the savages, the handle was always a withe—" "petrified buffalo dung [!] from the Rapids of Ohio, where such and various petrifactions are found in abundance"—"petrified ordure, supposed to be human, from the same place"—" fine fossil coal, resembling the canal [sic] coal of Europe, from Cincinnati on Ohio" [!]—" part of one of 30 or 40 trees all completely petrified found... 212 miles up the Tennassee [sic]

river, having tumbled into it with the bank on which they grew [!] The present specimen appears to have been black walnut" [!]—Indian bowl, complete, from the bed of the Tennessee—oviform* stone from the Wabash; marine shells and perforated bones from a grave on the great Kenhawa [sic]—"for the remainder see page 157."

This list of twenty-five articles being read, thanks were voted to Judge Turner "for this extremely acceptable proof of his Philosophical Industry, and his disposition to gratify

them."

1797. March 3. (Jefferson; Williams, Liancour [sic], Rush, Patterson, St. Mery, Newnan, James, Rich. Smith, Magaw, Nancarrow, Dr. Barton, W. Barton, Peale, Lerebours, Dr. Smith, J. B. Smith, Abercrombie, Smiley, Beauvois, Legeaux, Wistar, S. Smith.)

Patterson and J. B. Smith, to audit Treasurer's accounts. S. Smith added to the Book Catalogue Committee.

Letter on Education for the prize, reading finished.

Essay on Education ("Freedom"), 2 folio leaves, read.

Education and Public Schools, 5 folio leaves, partly read. Essay No. 2, referred to Patterson, Williams and Dr.

Essay No. 2, referred to Patterson, Williams and Dr. Wistar.

Essay No. 3, referred to W. Smith, St. Mery and Abercrombie.

Adjourned to next Friday, "on the account of a communication to be made before Mr. Jefferson leaves the city."

1797. March 10. Adjourned Meeting. (Jefferson, Priestley, Williams, Liancour, Beauvois, H. Williamson, of North Carolina; Caldwell, Dr. Barton, Collin, Nancarrow, Blakely [sic], Wistar, Patterson, Abercrombie, S. Smith, Vaughan, Turner, Leraboure [sic], Newnan, Rich. Smith, Deveze, J. B. Smith, Magaw.) "Mr. Martin, late Governor of N. Carolina, was also present—having been introduced by a member."

^{*} The writing is not distinct: it looks like avi/orm,

[The last six words in a precautionary note in a different handwriting.]

Auditing Committee not ready.

Book presented. "Papers Amer. Antiq." By Winthrop Sargent and B. S. Barton. Thankfully received.

Deed from Mrs. Rittenhouse, ready for execution, laid on the table for inspection.

Nancarrow's "Calculations, &c.," referred to Patterson, Williamson, Peale.

"Pieces" on Education—" Academicus"—"Hiram"—
"Hand"—"Freedom"—all five referred to Dr. James, R. Smith and Dr. Caldwell.

Jefferson's memoire [sic] "On the Discovery of certain Bones of a Quadruped of the" [a space of four lines here left blank].

"Resolved, That this Memoire be put into the hands of the Committee of Selection of Publication; & said Com. are instructed to employ a proper person to undertake & execute Drawings of the several bones exhibitted [sic] by Mr. Jefferson with his Memoire, and in it referred to."

"Resolved, That it is the request of the Society to Mr. Peale, he may cause those Bones to be put in the best order, for the Society's use."

Continuation of List of Turner's curiosities: 15. American porcupine quills, dyed; 16. Same undyed; 17. Skin of an Indian; 18. Sea otter skin, part of a blanket brought from the Pacific coast by Mr. McKenzie, 1794; 19. Stuffed swan's foot; 20. The spear that slew "Col. Chew & his party on the Ohio, about 11 miles above Fort Massac; supposed to have been formed out of one of the bayonets used under Gen. St. Clair, in the action, Nov. 4, 1791;" 21. Indian arrows; 22. Kaskaskian sculpture of a beaver in wood, used as a tureen; 23. Indian garters from the Wabash; 24. Another pair from the Creeks; 25. Indian belt from the Mississippi.

1797. March 17. (8 present.)

Dobson's stationery bill, $£9 \cdot 15 \cdot 7$, ordered paid.

Deed from Mrs. Rittenhouse and daughters respecting the observatory and ground appertaining to it, ordered to be sealed.

Communications by Branston Vanleer, on, 1. Waters; 2. Dioptrics; 3. Salt of lime; 4. Burns and scalds; 5. Heat and colds; 6. The dead in the grave.

"On improved fire places, with figures or plans in wood, of several Chimneys," a piece with signature "Occonomy," and five figures received.

"On the improvement of chimneys," with figures, dated December 16, 1796. All the above were referred to Woodhouse and Williams.

"Observations on the Animal Cotton & the Insect Fly, &c.," translated from the French of M. Deslozieres, "fondateur de la Soc. des Arts et Sciences du Cap François," was read.

Piece on Education No. 2 reported on; "laid on the table for the consideration & use of Members."

Dr. and Wm. Barton to enquire whether any acknowledgment was made of the receipt of a letter from W. Roxburgh, of Calcutta, with Asiatic plants, &c., or any compliance with his request.

Adjourned to last Friday in the month.

1797. March 81. "Philosophical Hall. Adjourned meeting." (Wistar, in the Chair; Collin, Nancarrow, Peale, W. Barton, Turner, Hodge, J. B. Smith, Seybert, Dr. Barton, R. P. Smith, S. H. Smith.)

Pamphlets to be arranged and uniformly bound; by the Catalogue Committee; "AM: PHILOS: SOCIETY" to be lettered on the cover of each book;—at a cost of not more than \$100 "for the present."

Peale's "Essay on building wood Bridges," presented by himself; thanks ordered.

"Specimen of Indian Picture writing," exhibited, and a paper on it read by Dr. Barton.

Prize Committees ordered to report at next meeting.

Advertisement to be put in the public papers "calling on all Persons having Books belonging to the Society to return them without delay." 1797. April 7. "Philosophical Hall. Stated Meeting." (Wistar, Coxe, R. Smith, Turner, Seybert, St. Mery, Currie, Vaughan, Beauvois, Le Rebours.)

"The Effects of D. Perkins' metallic Rods," a paper read

by Dr. Currie.

"On Amphibious Serpents," a paper by Mr. Beauvois; translation ordered; referred to Committee of Selection and Publication.

B. F. J. Herman, of St. Petersburg, sent his "Natur. des Kupfers," and his "Stat. Schil. von Russland;" his letter to be translated by R. Smith.

"Drawing of a Pump invented by Mr. Humphreys, of Philadelphia." "The Inventor is requested to give a more ample Figure of the Pump with an accurate description of its Powers."

1797. April 21. Philosophical Hall. (Wistar, Dr. Barton, Vaughan, Collin, Turner, James, Seybert, Chev. de Frere, R. Smith, S. H. Smith, Patterson, St. Mery, J. B. Smith, Davidson, Williams.)

Grassi's "Carte Botanique," and "Notions elementaires de Botanique," presented; thanks ordered.

Catalogue Committee reported progress.

Election of new members; "the Ballot Drawers were ordered to remain unopened till the Society were about to adjourn, according to Rule."

Committee on Nancarrow's paper reported verbally. Paper

referred to Committee of Selection and Publication.

Herman's letter, translated by W. Smith, ordered to be answered, with thanks "for his Donation and offers of service."

Letters (translated) from Don Luis de Urbina were read, one personally thanking the Society for his election, the other officially "expressing the usefullness of a mutual correspondence between two such Societys, and a determination to afford us every assistance in their power, inviting a

similar attention on our part, and informing this Society that they [the R. Soc. Valencia] had elected it [the A. P. S.] collectively as a Member of theirs."

A List of Donations and Donors, to be published "immediately after the 3^d Friday of January, April, July and October, when an account of the Election of new members is to be published;" also a List of communications.

Catalogue Committee "directed to take measures for collecting all the Books & other Property belonging to the Society, and take exclusive charge of the whole Library & property untill the Catalogue be compleated."

Judge Turner and Dr. Wistar a special Committee to answer Harman's [sic] letter.

Vols. I, II, III Transactions to be sent through M. Le Rebours to the National Institute, Paris.

"Dr. Davidson, having appeared since the new members were ballotted [sic] for, was permitted to vote for each, the Ballot Drawers remaining unopened."

Catalogue Committee "requested to apply to M^{r.} Aitkin & to report the state of the Volumes belonging to the Society in his hands."

Ballot Drawers opened and election of four new members declared: John Heckewelder, of Bethlehem, Pennsylvania; John Stewart, of Green Briar county, Virginia; Revd. Sam. Blair, D.D., of Philadelphia; Thomas Pinkney [sic], of South Carolina, late Minister Plenipotentiary U.S. A. to the Court of London.

1797. May 5. (Dr. Mitchel, Le Chev. C. R. Freire, Dr. Wistar, S. H. Smith, Magaw, Judge G. Turner, Woodhouse, R. Smith, Peale, W. Barton, Judge J. Williams, J. B. Smith, Patterson in the Chair.)

Secretaries to begin from January 1 in publishing Donations, &c.

Catalogue Committee presents written report, signed R. P. and J. Smith.

Catalogue Committee to consider the best mode of disposing of the copies of Dr. S. Stanhope Smith's oration, Dr. Rush's Eulogium, and Mr. T. Matlack's oration.

Woodhouse and Seybert to make a List of Minerals in the Cabinet.

Patterson and Peale, to arrange and describe the Philosophical apparatus.

Wistar's Committee reply to Prof. Herman, read and ap-

proved.

"Reports [of Committees] in the way of concise analytic review" "were introduced & read";—three on "Fire Places;"—On "Republican Schools" (Sig. "Hiram");—On "Education & Public Schools" (no Sig.) read March 10th;—A paper signed "Academicus;"—these reports to lie on the table.

Committee "to examine & consider of the existing Laws of the Society, with the view of having a revised, or new Code, if such may be constitutionally effected:" W. Barton, Jon. Williams.

Three Vols. Transactions R. S. Valencia, and Vol. of Constitutions of that Society, all in Spanish, presented, with letters from Don Lewis [sic] de Urbino, "the Director of that Society" specified in minutes of last meeting.

"Resolved, That the Diploma, sent from Valencia, expressing, that this Society collectively is chosen a Member of the R. S. of that place, shall be framed, glazed, and most attentively preserved, and that the same be carried into effect by Mr. Peale."

1797. May 19. (Jefferson in the Chair; Wistar, Turner, Caldwell, Dr. Barton, Patterson, Collin, Williams, Williamson, Peale, Seybert, R. P. Smith, Volney, Le Rebours.)

Books presented by R. Valtravers [sic]: Churchman's Magnetic Atlas; Cavallo's Treatise on Magnetism.

Committee on Revision of the Laws reported provisionally; proposed laws ordered to lie on the table for discussion.

"Two ancien Walls, lately discovered in N. Carolina," described by Revd. S. Spring and S. McCorkle, May 13,

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read. Seybert, appointed to examine and report on specimens of the Cement and Stone of these walls.

"A plan for collecting information respecting the Antiquities of N. A." to be reported by Turner, Wistar, Collin, R. P. Smith and Seybert.

Premium Committees which had not yet reported analyses

of papers, notified to do so without further delay.

Book presented by Dr. Grassi: "Pomponii Melæ de orbis Situ, libri tres, &c. &c. printed in Paris, 1540."

1797. May 26. Special Meeting. (Wistar in the Chair; Turner, Patterson, Vaughan, Peale, James, R. P. Smith, Le Rebours, Caldwell, Parke, Dr. Barton.)

Mammoth bones. Letter from J. Caffery of Nashville, read, stating "that many Bones of the Mamoth [sic] were to be found at Manscoes Lick near the mouth of Cumberland River, and offering assistance in Collecting & forwarding them to Philadelphia or New York."—James, R. P. Smith, and Dr. Wistar, "to inform Mr. Caffery that the Society accepts his liberal offer, & to take such other measures as may be necessary to procure the Bones provided they do not exceed \$100."

Committee reported their "Plan for collecting information respecting the remains of ancient natural and artificial productions in N. A," which was read by paragraphs and recommitted for a "Code of Rules for the Government of the permanent Committee contemplated in the aforesaid Report."

1797. June 16. (Jefferson in the Chair; Wistar, Magaw, Dr. Barton, Seybert, Wheeler, Chev. Freire, Turner, Volney, Peale, Williams, Caldwell, Vaughan, St. Mery, Blakeley.)

Bone Committee reported "that the Secretary at War [sic] had undertaken to forward their letter" to Mr. Caffery.

The box presented by Earl Buchan to Mr. Rittenhouse

"was received from Mrs. Rittenhouse with the Earl's Letter dated Jan. 12, 1795, containing a description of the Box, which is adorned with a pencil portrait of Napier on the inside & a Similar One of Copernicus on the outside; The Letter contains also some historical facts relative to Copernicus, & should, be kept in the Box, to show the object of the Donor."

A letter in French from M. Noel, Mem. Soc. Emulation, Rouen, relative to the supposed passage of Herrings, was read in English. Dr. Barton and Williams to reply.

A letter from W. Couldery, London, January 27, relative to a new lamp, was read and a model produced. Patterson and Peale to consider its claim to the premium, and report "an account of the Effect of this lamp by fair experiment."

Books presented by the Chev. Freire: Ensaio Econ. Portugal: Trat. Educ. Fys. &c. 2 Vols.; Instit. Juris Civ. Lusitani, 4 Vols.; Hist. J. Civ. Lus.; Documentos arabicos; Vestigios da Lingua arabia em Portugal; Mem. de Litt. Portugueza, 2 Vols.; Mem. Economicas, 3 Vols.; Synopsis chronologica, 2 Vols.; Mem. e Obs. sobre manufactura do Azeitte de Oliveira em Portugal; Programma de Acad. R. d. S. 2 Vols. Thanks voted to Friere & "presented verbally from the Chair.—W. Barton ordered to furnish a Sett [sic] of the Trans. to him "to be presented by himself to the R. Acad. Lisbon."

Committee of Selection and Publication, desired to report the present state of the Volume now in the press.

Peale produced the glazed Diploma from Valencia, "& makes a present to the Society of the expense he has been at." Thanks voted and delivered from the Chair.

One hundred certificates of membership to be struck off without delay. "Mr. Peale undertook the execution of this order."

St. Mery presented (from the author) Adet's "Doctrine of Phlogistique & the decomposition of Water," in French.

"Dr. Seybert produced a Specimen of the Stone taken

from the ancient Wall in N. C. with Specimens of the Cement in lump & in powder;" analysis hereafter.

Committee reported a draft of Rules for the proposed permanent Antiquarian Committee. Ordered to lie on the table, and that the choice of the Committee be referred to the next meeting.

A special meeting ordered for July 14, to consider communications "for the Premium offered for 'The best System of liberal education and literary Instruction;" the performances to lie on the table for inspection; "the Hall to be open every day (Sundays excepted) until the said 14th of July, that the Members may have ample opportunity of estimating the comparative merits of the Essays on this important Subject."

1797. July 14. Special Meeting. (Collin; Vaughan, Dr. Barton, Legaux, Abercrombie, Magaw, Peale, Rush, Patterson, Williams, Turner, Woodhouse, R. S. Smith.)

"On the black colour of the Negroes," communicated from D^{r.} Rush, read and referred to a special Com.—Woodhouse, Seybert, Patterson.

Two Vols. F. "Le Dict. de l'Acad. Françoise," presented by R. Smith. Thanks voted.

"Plan of a new constructed Cylinder Pump, which he has now in operation, in watering the Frigate 'United States,'" communicated by Josh. Humphries [sic], and read April 7, was referred to Patterson and R. Smith to review, consider and report.

"Meteor. Obs. made at Fort Washington commencing June 1790 & ending April 1791, to which are added some Obs. on the rise & fall of the River Ohio," a paper by Judge Turner, was referred to Woodhouse, Seybert and Patterson.

The Committee on Essay [Education] No. 3, not having reported, the special business of the meeting was postponed to the next meeting; Dr. Abercrombie of that Committee

being requested to call on its members for the analysis of the Essay.

1797. July 21. (Wistar in the Chair; Patterson, Barton, Deveze, Caldwell, Vaughan, Abercrombie, R. P. Smith, W. Barton, Davidson, Collin, St. Mery, Peale, Seybert, Turner, James, Jon. Williams.)

Committee on Couldery's Lamp reported; report read and ordered on file with the original papers.

Barton's "New Views of the Origin of the Tribes & Nations of America;" copy from the author; thanks veted, "& delivered from the Chair."

Rush's Colour of Negroes paper ordered "to be printed in the next Volume."

Resolved, that no communication presented after the third Friday in Sep. "shall have a Place in the Volume now in press."

"On the Remains of certain nondescript animals, usually called Mamoth* bones; of which one carnivorous or mixed; & the other herbivorous or Graminivorous [sic]," a memoir presented by Judge Turner, was read and referred to James, Wistar and Seybert.

The chemical analysis of Stone and Cement, promised by Dr. Seybert, was read and referred, with the original communication (May 19), to James, Wistar and Turner, "with the view to the publication of both at the same time."

Abercrombie reporting that Dr. Smith declined to serve on Essay No. 3, Jon. Williams was substituted.

Reports of Committee on Antiquities, ordered to be reconsidered at a Special meeting, August 4, to be "open to any other business that may occur."

Mr. V. B. Houckgeest acknowledged by letter his Certificate. Also Dr. Valentine, his second Certificate, to replace the one "lost in the Flames at Cape François.

Election of four new members: John Guillemard, St. John's College in Oxford; Wm. Bache, M.D., Philadel-

^{*} Corrected afterwards to Mammoth.

phia; Alex. Martin, North Carolina, member of the Senate, United States; Wm. Hamilton, of the Woodlands, near Philadelphia.

1797. Nov. 3. (Woodhouse in the Chair; J. B. Smith, S. H. Smith, Peale, Tench Coxe, Dr. Barton, Mr. Volney.)

Description and Model of a Stove, "supposed to be intended for the premium, published in May, 1796, sealed with wax, lettered A. C. with this motto prefixed to the description: *Miseris succurrere disco*, Æneid, Lib. I; were referred to Williams and Woodhouse.

Jas. Thackara's bill for printing ninety-five certificates, 15sh. and W. Y. Birch's bill for a quire of drawing paper, \$6.00, were ordered paid.

1797. Nov. 17. (Patterson in the Chair; Seybert, Dr. Barton, Vaughan, J. B. Smith, Abercrombie, Williams, S. H. Smith, Wistar, Wheeler, Peale, Bleakley.)

Books and a letter from Dr. Francis de Zach, of Saxe Gotha: Stellarum prec. cat. novus ex obs. ast. in Observatorio Gothaus, A. 1787, '8, '9, '90, Auc.' F. de Zach; Tab. mot. Solis, Zach; Tab. spec. aberrationis et mutat. in asc. 494 stell. zod. cat. &c. Zach. Thanks ordered.

Nich. King's letter referred to Patterson and Wheeler.

Committee on Turner's memoir and Seybert's communication recommend their insertion in the volume now preparing for the press.

Analysis of Essay No. 3, produced. Friday 24th, fixed on for taking up the Essays on Education.

"The Treasurer informed the Society that M^{r.} Bache had instituted a suit for the recovery of a sum of money which had been lent by D^{r.} Franklin, and that he had instructed M^{r.} Rawle to enter his appearance."

Whereupon

"Resolved That this Society do approve of the conduct of the Treasurer, & that he take measures for extinguishing the aforesaid debt, either by loan or otherwise, as soon as possible."

1797. Nov. 24. (Jno. Guillemard, Dr. Barton, S. H. Smith, Vaughan, Magaw, J. B. Smith, Wistar, Turner, Patterson, Seybert, Peale, Volney.)

Committee on Rush's memoir reported.

The same Committee now reported on Judge Turner's Fort Washington Observations. Both recommended for the next Volume, were to be delivered to Mr. Dobson, Printer, of the Transactions.

The Committee on Mr. King's letter reported, and it was ordered to go to the printer of the Volume ensuing.

"An enquiry into the comparative effects of Opium officinarum extracted from the Papaver somniferum or White Poppy of Linnæus,—and of that procured from the Lactuca sativa or common Lectuce [sic]—stating a number of experiments which he [Mr. Coxe] made on both species," communicated from Dr. J. Redman Coxe, was read and referred to Seybert, Barton and Rush.

"A description of some very singular ceremonies which he [S. T. Hutchinson] was present at among the Naudowessi Indians, a nation living to the West of the Mississipi [sic]—giving an account of their Music, exemplifyed by a Specimen of musical Notes," in a letter from Hutchinson, Presque Isle, May 27, 1797, to Mr. Peale, was read and referred to Turner and Patterson.

Tin and other English ores, spars and crystals, were presented by Judge Turner for the Cabinet. Thanks ordered.

"This evening the merits of the several communications on Education, should be brought to issue,—certain reasons induce the Society to defer this business a little longer."

"Resolved, That, On the 3d Friday, in Dec' the Society will determine their judgment due Notice to be given one or more of the Public Papers & in printed hand bills, directed to the several members in this city, of their being summoned punctual attendance."

1797. Dec. 1. (Collin, 11 others.)

Patterson and Vaughan appointed a Committee to continue the insurance on the Building and Library in the Insurance office North America for one year, or in any other office for one or more years.

"Modestus" withdraws, by letter, his Prize essay on Peach trees. The sealed packet was burned unopened.

"A trigonometrical Survey of part of England" presented (by letter, signed Ed. Williams), by the Marquis of Cornwallis. Vaughan to answer.

Turner and Patterson reported that S. F. Hutchisson's [sic] paper on Indian Music was "an imposition & unworthy of further notice," and gave, by request, their reasons, which were satisfactory.

"A botanical mode of discriminating between esculent & noxious vegetables" in a letter from Ben. Shultz; referred to Barton and Seybert.

Meteorological Journals by Phineas Pemberton, "long lying among the Society's papers, were called up," and referred to Judge Turner.

Resolution of July 21, excluding later papers from the Vol. of Transactions rescinded.

Report on the Laws again read, Patterson added to the Committee, and the report recommitted.

1797. Dec. 15. (Judge McKean; Davidson, Seybert, Peale, Turner, Patterson, Vaughan, Wistar and S. H. Smith who "after staying a few minutes retired."

Prize communication on an improvement in Steam Pumps signed "Improvement" read and referred to Peale and Williams.

Prize committee on Preserving Peach trees, signed "Lime," read and referred to Peale and Williams,

Patterson reported £34 $\cdot\cdot$ 8 $\cdot\cdot$ 9½, belonging to the Society exclusively; £55 $\cdot\cdot$ 17, to the Magellanic Fund; and 83

Ins. Co. shares, ditto; in the Treasurer's hands December 31, 1796.

Insurance Committee had insured in the North America office \$4000 on building at 30 per cent \$12; and \$1200 on library \$3.36 \pm \$15.36.

Patterson and Smith to audit Treasurer's accounts.

Analyses read of Education Prize essays. Vote taken on the question "Is this the best System of liberal Education and literary Instruction adapted to the Genius of the Government and best calculated to promote the genuine welfare of the U. S.?"

"Whereupon it appeared to the Society that two of these Essays: 1. An Essay with this motto, 'In meti descendat Judicis Aures.' [sic] Hor.—2. An Essay with this motto 'I call a complete & generous Education that which fits a man to perform justly, skilfully & magnanimously all the offices both private and public of Peace & War.'—(Milton)—possessed a superior degree of merit & were worthy of publication. The Premium was in consequence adjudged to be equally divided between the authors of these two Essays."

"The President pro tem. then opened the Sealed letters Rev^d Sam. Knox of Bladensburg, Md., was the author of the first, and Sam. H. Smith of Phila. author of the Second."

Turner, Patterson and Williams, to draw up an introduction to these Essays and superintend the printing.

The Piece with motto "Desinet ac toto Virgil Ec. IV," was ordered to be returned to the care of Alex. Moore, Tavern-keeper, at the corner of Chestnut and Fourth streets.

1798. Jan'y 5. (9 present.)

ANNUAL ELECTION.

Collin, Vaughan, Williams, Judges; Patterson, Davidson, Secretaries.

President-Hon. Thomas Jefferson.

Vice-Presidents-Collin, Rush, Wistar.

1798.

Treasurer-John Vaughan.

Councillors—Jon. B. Smith, W. Smith, D.D., S. Wheeler, and Jon. Williams vice R. P. Smith, deceased.

Curators—Peale, B. S. Barton, Patterson.

Secretaries-Magaw, Seybert, T. C. James, S. H. Smith.

1798. Jan'y 19. (Jefferson; Peale, Davidson, Currie, James, Vaughan, Friere, Bache, S. H. Smith, Patterson, Collin, Martin, of North Carolina; Thomas Pinckney, of South Carolina; Guillemard, Turner, Wistar, Williams, J. B. Smith, Blakely, Magaw.)

Prize essay on Preserving Peach trees, endorsed A. B. C. received, and partly read through.

Election of two new members: Brig. Gen. Jas. Wilkinson, commander-in-chief of the United States; Major Francisco de Zach.

Letter from S. Knox received and referred for answer to Williams and Peale who were to "cause to be prepared the Premium of Plate."

Introduction to prize essays reported and agreed to. Essay "Tu modo nascenti" had been delivered to Alex. Moore, by Mr. Williams in presence of Patterson and S. H. Smith.

Wistar, Bache and Magaw to consider the propriety of drafting an advertisement, offering again a Premium for the best essay on Public Education.

"Communication on the Cultivation of the Peach tree," signed X. Y. Z., supposed to be offered for the premium received.

"Obs. on the causes & cure of remitting or billious [sic] fevers" by Dr. Currie, was presented by him "in his place." Thanks voted, and given by the President.

Jefferson presented a Bone of the Mammoth some time ago found in Virginia. "Also, a large square plate of a Swedish Copper Coin marked "4 Daler Silemynt" handed to him by General Kosciusko for the Society."—"The Presi-

dent is requested to express to the General the high consideration in which they—the Society—view this instance of his polite attention."—"To the President also himself, personally, do they make acknowledgement of the constant sense they entertain of his valuable Communications & Offices of Friendship."

T. C. James and S. H. Smith to learn if Dr. Barton will

deliver the oration, and to fix on time and place.

1798. Feb. 2. (Jefferson; Andrews, Davidson, Peale, Seybert, Magaw, Bache, Currie, J. B. Smith, Patterson, Woodhouse, Williams, St. Mery, Turner, S. H. Smith.)

Rush's Essays, presented by the author. Thanks voted. "General View Arts & Sciences . . for . . Youth," presented by St. Mery. Thanks voted.

Committee on Oration reported progress.

Prize Essay, "Lime," reported on and ordered to lie on the table; afterwards recommitted. Prize Essay "Improvement" reported on; report amended and agreed to; then recommitted.

Essay A. B. C. read further and again postponed.

1798. Feb. 16. (Patterson and 10 others.)

J. B. Smith and Vaughan to confer with the Committee of College of Physicians, "authorized to accept \$40 per annum for 2½ years from the expiration of their lease—to grant a further lease of one year provided at a not less sum than \$80 per annum, & that the said lease be considered as continuing for such further term as a notice of six months shall not be given by either Party of their wishing the lease to expire."

Wistar, Bache and Seybert "to devise the best methods of preserving Fossil Bones," in consequence of information by Dr. Williamson of North Carolina, "that a Person was ready to raise bones of the Animal Incognitum in the western

Territory who said they were liable to decay as soon as they came in contact with the atmosphere."

James, Bache and S. H. Smith substituted for Judge Turner (at his request) to arrange Pemberton's Meteoric Observation made at Philadelphia during forty years.

Essay A. B. C. finished reading, and referred (with Essay X. Y. Z.) to Bache, Peale and Williams for analysis.

1798. March 2. (Jefferson; Patterson, Dr. Smith, Coxe, Peale, Wistar, Martin, Findley, Vaughan, S. H. Smith.)

S. Lewis' bill for "filling up Diplomas &c" \$5.24 allowed.

"A mode of supplying Philadelphia with water from the falls of Schuylkill," in a letter from Jas. Sullivan, of Boston, to Dr. B. S. Barton, dated October 18, 1797, was presented and read.

Education Premium Committee reported, "recommending certain principles as the proper subjects of discussion by the Candidates." Report amended several times and postponed.

1798. March 16. (Wistar; 11 others.)

Committee reported that they had expended all the money on a Silver Goblet for Mr. Knox. A further sum was then appropriated for the inscription:*

"The American Philosophical Society to Samuel Knox, A. M. A Premium for his Essay on Education, awarded Philadelphia, 15 Decr. 1797." Bill of A. Dubois for the goblet \$50.12,† ordered paid.

College of Physicians declined keeping the room at \$80; but offer \$40 for $2\frac{1}{2}$ years and \$52 afterwards, "& are willing that the Phil. Soc. should, whenever convenient, place their Library & Apparatus in it, & make such other use of the room as would leave to the College room for their Library & the use of the room for their Stated Meetings, & such occasional extraordinary meetings as may be necessary.

[.] For which Smithers was paid \$2 . 5, Pa. currency.

^{† £18 · 16,} Pa. currency.

The College intending that these days shall not interfere with the days or hours of the Meetings of the Phil. Society." Report agreed to, and Committee instructed to make the contract.

S. H. Smith to inquire into the state of the Catalogue.

"B. S. Barton's Collections for an Essay toward a Materia Medica of the U.S.," presented by its author. Thanks voted.

Essay "*X" on preventing the decay of Peach trees, read, and referred to Mr. Williams for analysis.

Essay "Improvement" reported on; report read.

Report of Committee on new premium recommitted.

1798. April 6. (Jefferson; 9 others.)

Goblet for Knox reported entrusted to Mr. Baer, Member of Congress for Maryland.

Vaughan reported obligations accepted and exchanged by Committee College of Physicians and Committee Philosophical Society. [It occupies a page of the Minute book.]

Essay "*X" reported on.

Lettsom's "Hints designed to promote Beneficence, Temperance & Medical Science," presented by the author, per Dr. Parker. Thanks voted.

Catalogue of Library. Mr. S. H. Smith reported that the copy was probably lost.

A letter from Mr. S. H. Smith was read [occupies half a page] in which he requests the Society to appropriate the prize awarded to him for his Essay on Education, "to the advancement of the same object, in proposing a premium of the value of \$50, or by incorporating that sum with such other should the offering a new premium be thought advisable." Thanks were voted to Mr. Smith for the relinquishment of his premium; sum to be added to new premium, and its source specified.

Committee on collecting information relative to American Antiquities report again read. Then the second report

on the Plan was read by paragraphs, amended, and the following Committee appointed: Jefferson, Turner, Wistar, Seybert, Peale, Wilkinson, Williams.

Secretaries to produce all the Peach tree Prize essays and the reports of Committees thereon at the next meeting.

1798. April 20. (Jefferson; Cathrall, Frere [sic], and 14 others.)

Secretaries to be a Committee to prepare "the historical part of the Volume now in the press, within the space of three weeks, as the printing of the said volume will then be continued."

Jefferson presented a Hand Threshing Machine invented by T. C. Martin, of Virginia; "which he had procured to be made." Thanks voted to Jefferson.

"Resolved, that the Treasurer having been on Nov. 7, 1797, authorized to borrow money sufficient to relieve the mortgage to Dr. Franklin the President be authorized to give his signature to such new contract or mortgage . as may be made . . . and the Secretary to place the seal thereto Should the Treasurer not be able to procure the whole sum on loan, he be authorized to appropriate as much of the funds absolutely necessary"

Secretaries to make out a list of foreign members.

M. Carle's* letter "concerning the Yellow Fever" cost Dr. Collin \$2 postage. Ordered paid.

Election of four new members: Wm. Patterson, M.D., Londonderry; J. B. Scandella, of Venice, now in United States; Julien Niemcewicz, of Poland, now in United States; John Fred. Blumenbach, M. D., F.R.S., Professor Natural History, University Göttingen.

1798. May 4. (Jefferson; Patterson, Duponceau, James, Niemcewicz, Scandella, Peale, S. H. Smith.)

"On Magnetism," from Revd. James Madison, of Williamsburg, Virginia; referred to Dr. James.

"Natural Curiosities in Greenbriar county, Va.," "par-

[&]quot; The first letter of this name is uncertain,

ticularly of a tooth of a large non descript animal," from M. Beauvois; referred to Dr. Wistar.

"Description of a Mould Board of the least resistance &c," by Mr. Jefferson, was read and referred to Mr. Patterson.

Secretaries' list of 179 foreign members elected since the institution of the Society, read.

Ebeling, of Hamburg, acknowledges receipt of Rittenhouse's Eulogium.

1798. May 18. (Jefferson; Williams, Collin, Patterson, Bache, Peale, Wistar, S. H. Smith.)

"Gold coin, coined in the last year of Poland as an independent state," from Mr. Niemcewicz. Thanks voted.

On a Mould Board; reported worthy of publication in next volume; so ordered.

Secretaries to collect and deliver to the printer papers ordered for publication.

Premium pieces to be considered at next meeting.

Essay A. B. C. reported on by its Committee.

Adjourned to first Friday in June.

1798. June 1. (Collin; Turner, James, Woodhouse, Abercrombie, Vaughan, Peale, Seybert, S. H. Smith, Williams.)

"Analysis of the materials composing supposed ancient wall in N. Carolina, with observations on the same," by Adam Seybert, M.D., was presented and referred to Wistar, Jones and Turner. Letters on the same subject, between Jas. Hall, Jr., and Dr. Woodhouse, were read and referred to Wistar, James and Turner.

Secretary reported on the state of the Volume of Transactions.

"A Comparison of Kindred words in the languages of several European nations for the additional illustration of their antiquities," by Nich. Collin, D.D., was read.

A manuscript funeral oration to the memory of M. Duhail, and other productions of M. Davezac, at Norfolk, were communicated.

Bishop Madison's piece on magnetism was reported worthy of publication. So ordered.

Abercrombie's Sermon on fast day, May 9, was presented by him. Thanks voted.

Adjourned to this day week.

1798. June 8. (Jefferson; Peale, Magaw, Seybert, St. Mery, Duponceau, Martin, Barton, Vaughan, S. H. Smith.)
Davezac's communication was read.

Turner's Index to Vol. II Transactions received.

A farmer of New Jersey sent a letter "stating that he had discovered a mode of preserving the Peach Tree, & stating certain terms on which he would be willing to make the discovery public."

"On the poisonous honey of N. Carolina," and "Some Account of Jas. Moss the White Negro," both by Dr. Barton, were referred to Wistar and Seybert.

Collin's Comparison of Kindred words was referred to Duponceau, Vaughan and Barton.

1798. June 15. (Jefferson; Collin, Seybert, Peale, Patterson, Vaughan, S. H. Smith, Wistar.)

"On a nondescript animal called the Prairie squirrel," from Judge Turner, referred to Dr. Barton.

"Description of a submarine vessel, calculated to effect the firing of vessels under water," by D. Bushnell, of Stamford, Connecticut, read and referred to Mr. Patterson.

"On Magnetism," by Mr. Williams; read and referred to Mr. Patterson.

"Description of a newly constructed vessel for boiling inflammable fluids," by T. P. Smith; read and referred to Dr. Seybert.

Consideration of pieces offered for the premium postponed. Adjourned to this day week. 1798. June 22. (Collin; Patterson, Woodhouse, Vaughan, S. H. Smith, Wistar, Seybert, Duponceau.)

Turner's Communication on the Prairie Squirrel was reported on. Society hopes for a more accurate description hereafter.

Collin's Comparison of words, ordered for publication.

T. P. Smith's boiler: "it is proper to decline giving an opinion previously to trying an experiment" The inventor was "requested to try its effects by experiment."

Papers reported by Dr. Wistar worthy of publication.

Mr. Beauvois' letter to Jefferson.

Dr. Deveze's "New method of treating the effusion which collects under the skull after fractures of the head;" and

Judge Turner's paper "on Bones of certain nondescript animals."

Bushnell's paper on Submarine vessels for destroying ships, was reported by Mr. Patterson worthy of publication.

1798. July 20. (Patterson, Woodhouse, James.)

1798. Nov. 23.* (Jon. Williams in the Chair; Patterson, J. B. Smith, Blakely, Coxe, Vaughan, Dr. Barton, Woodhouse, Seybert, S. H. Smith, Wistar, Turner, Dr. James.)

Books presented: Geo. Adams on the Microscope, second edition with Volume of plates; Adams' Graphical Essays corrected by Wm. Jones (Mathematical Instrument maker) with volume of plates. Thanks voted.

Priestley's letter to Dr. Barton, being an appendix to his former communication on the Decomposition of Water; read and referred to Seybert and Woodhouse to hand to the printer for the Volume of Transactions now in press.

Letter from T. Smith to Dr. Seybert on a vessel for boiling inflammable fluids was read; Committee report read and agreed to.

Latitude and Longitude of Natchez determined by And. Ellicot; read and ordered to press.

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 $[\]mbox{\$}$ This long intermission was probably owing to the prevalence of the yellow fever.

Book presented: Dr. Barton's new edition of his New Views, &c., in lieu of first edition now withdrawn.

J. R. Coxe's Essay on Opium, to be returned to the author for corrections, and then published.

Dr. James added to the Committee on Examination of Dr. B. Schultz's botanical work.

Committee on Pemberton's Meteoric Observation. Smith and James reported *their* work finished; the rest of the Committee were requested to finish the arrangement of the whole.

Committee to arrange the historical part of the Transactions reported it in readiness for the press.

Secretaries to make a list of all papers offered for the premium.

Woodhouse to replace Williams on the Committee on the paper on Peach Trees.

Mr. Williams reported that the printer had declined to fulfill his contract to print Mr. Knox's paper on Education, which had been returned to Mr. Knox, who would publish it himself. Williams' conduct approved. Mr. Knox requested to furnish the Society a few copies.

Mr. Turner had furnished an Index for each of the three Volume Transactions, and would complete a general index.

[Then follows a mysterious paragraph.]

It was:

"Resolved that a Committee consisting of Mr. Coxe, Mr. Patterson, and Mr. Vaughan, be appointed to take proper Measures to secure the property in the Society's Room untill next Meeting, at which time they are desired to report on the State of the Same."

1798. Dec. 7. (Williams in the Chair; Barton, Vaughan, Woodhouse, Seybert.)

Williams had written to Knox.

Report:

"The Permanent Com. of the A. P. S. respectfully offer to their constituents the following Report:—The first object of the Committee was to invite communications from distant places & with that view the annexed

Circular Letter has been extensively distributed.—The Minute Book & papers of the Com. are laid upon the table for the inspection of the Society, in conformity to their Resol. of April 6, 1798.—It will be seen by the Minutes that the Com. have received two donations, one from Gen. Wilkinson Com^r. in Chief of the Western Army, and one from M^r. Passmore of this city.—The Committee's expenses will be found to amount to \$28.81, the accounts & vouchers for which are here annexed.

"The Donation from Gen. Wilkinson consists of Bones & Fragments of the Bones of nondescript animals. There are evident marks of variety as to the age & size of these animals; but whether they be of one or more species the Com. do not undertake to say.

"The Donation from Mr. Passmore is a fine Specimen of Talc.... found in abundance in the back parts of Newhampshire, & will probably prove to be a valuable acquisition to the Arts by supplying the place of Glass where it is required to be secure against heat & fracture, as in Magazine Lanthorns &c.

"The Subscriber closes his duties as Chairman by the foregoing Report. Signed by Order of the Com. Jon. Williams, Chairman of the Permanent Com. A. P. S."

"P. S. Two Meteorological Journals Kept by Gen¹ Wilkinson at Detroit & on a voyage to Michilimacanac [sic] on the Lakes and transmitted by him for the use of the Society are also submitted by the Committee."

Ordered that the Treasurer pay the account.— M^{r} . Williams to write a letter of thanks.

Committee on Priestley's Letter on Phlogiston reported that they had left it with the printer.

Coxe's Essay on Opium reported worthy of publication. Schultz's Essay on Noxious Plants; objections to publishing it stated by the Committee, and approved by vote.

1798. Dec. 21. (Magaw in the Chair; Barton, Wistar, Woodhouse, Seybert, Vaughan, J. B. Smith, S. H. Smith, Guillemard.)

Historical part of Vol. IV Transactions ready.

Dobson presented seven half Volumes of his Encyclopædia, which makes the work complete. Thanks in writing ordered.

Secretary to ask Dr. Barton "when he will positively be in readiness to deliver the Annual Oration."

"Memoir on the Sand Hills of Cape Henry" by H. B. Latrobe, read and referred to S. H. Smith. Mr. Latrobe intends further communications. Thanks ordered.

Committee on North Carolina ancient wall reported recommending a joint memoir by Woodhouse and Seybert. Agreed to.

"Expts. & Observations on the Atmosphere of Marshes" by Adam Seybert, M.D., read and referred to Woodhouse and Guillemard.

"Concerning the pernicious effects of the Equisetum hyemale, or Rough horse tail when eaten by Horses," by B. S. Barton; read and referred to Seybert and Williams.

Dan. Knight's bill for locks and putting them on the book cases, $£1 \cdot 10$, ordered to be paid.

"No Communications claiming the Magellanic premium have been presented since the last adjudication."

Adjourned to Friday next at 6 P. M.

1798. Dec. 27. Adjourned Meeting. (Wistar; Vaughan, Peale, Patterson, S. II. Smith, Bache, Woodhouse, James, Seybert, Barton.)

Secretary reported he had thanked Mr. Dobson.

Letter on Longitude, from Tim. Kirk of Yorktown, read and referred to Patterson and Vaughan.

Essay X. Y. Z. on Peach Trees reported on favorably.

Committee on Pemberton's Meteoric Observations to report the best method of disposing of them at the next meeting.

Committee to abridge all the papers on the subject of Peach Trees: Williams, Peale, Bache.

Latrobe's Memoir reported worthy of publication. Agreed. Mr. Latrobe was willing to etch the engraving. Thanks voted.

Woodhouse's answer to Dr. Priestley, in a Memoir on

Phlogiston and the Decomposition of Water, read and referred to Seybert and Wistar.

Dr. Barton would deliver the oration March 1, 1799.

Resolved, that the last Saturday in February would be more convenient to the Society.

"Resolved, that a Com. of three be appointed by ballot to take into consideration the several communications on Peach Trees & report their opinion, which communication, if any, is worthy of the Premium proposed.—Whereupon the Society shall decide by ballot on the report made, which if affirmed by a majority of votes shall be conclusive.—If the result be a disagreement to the Report made, the Society may recommit the communications to a new Committee of three formed in the same way, and the Society shall take the same order on this report as on the preceding one.—

"Resolved that a Committee similarly constituted be appointed on the

subjects of Ship-pumps & fire-places."

"Ordered that D^{r.} Bache, Messrs. J. B. Smith & J. Williams be the Committee on the Subject of Peach Trees.—That Messrs. Jefferson, Wheeler & Collin be the Com. on Ship-Pumps &c.—That D^{r.} Wistar, Messrs. Williams & Patterson be the Com. on Fire-places."

Committee on Seybert's Essay on Marsh air reported it worthy of publication. Agreed to.

END OF VOL. OF MS. MINUTES.

1799. Jan. 4. Between 2 and 5 p. m. (Present: Messrs. Peale, Vaughan, Seybert, S. H. Smith, Davidson, Patterson, Wheeler, Findlay, Drs. Magaw, Collin, James, Barton.) Davidson, Seybert, Vaughan, Judges; Smith and Peale, Secretaries.

ELECTION OF OFFICERS.

President—Thos. Jefferson.

Vice-Presidents-Wistar, Rush, Patterson.

Treasurer-Vaughan.

Secretaries - James, S. H. Smith, Seybert, Woodhouse.

Curators—Peale, B. S. Barton, Collin.

Councillors—T. McKean, Jas. Davidson, R. Blackwell, Ad. Kuhn.

1799. Jan'y 18. (Jefferson; Wistar, Patterson, Seybert, James, Barton, Woodhouse, Peale, J. B. Smith, Davidson, Martin, S. H. Smith.)

Barton's paper on Equisetum reported for publication.

Woodhouse's reply to Priestley reported for publication.

Supplement to Latrobe's paper on the Sand Hills of Virginia presented and referred to S. H. Smith with power to print.

"On the Basaltes of the Connewago Hills" by T. P. Smith, presented and referred to Wistar and James, with

power to print.

Committee on Pemberton's Observations reported "that they had ascertained the monthly results of the several years for which the Obs. were made &c." Recommitted; Dr. Wistar added.

"On the Onondaga Salt Springs," a memoir by B. De Witt, M.D., presented. Thanks to the author voted.

Committee appointed to catalogue the Books and Apparatus: Davidson, Peale, Collin.

Printer directed to close the current volume "as soon as the papers placed in his hands shall be printed," "no communications hereafter received to be admitted."

1799. Feb'y 1. (Jefferson; Collin, Coxe, Peale, Seybert, Barton, Woodhouse, Williamson, Martin, S. H. Smith, Wistar, Patterson.)

Treasurer instructed "to call on the Executors of David Rittenhouse & receive from them the Sums contributed, and placed in his hands, towards aiding the expedition of Mr. Micheau." [sic]

Committee appointed "to report the proceedings which have been had with respect to the sums received on account of M. Micheau's Expedition, and their opinion on the proper measures to be pursued thereon.—Collin, Peale, Wistar."

Latrobe's paper on Sand Hills reported worthy of publication. Agreed to.

Committee appointed "to consider the expediency of offering a Premium on the Subject of Education, and the circumstances under which the premium shall be offered.—S. H. Smith, Wistar, Collin."

"On Peach trees," a paper from Richd. D. Spaight, of North Carolina; referred to Williams, Peale and Bache.

Dr. Williamson's description of *Ephoron leucon* referred to Barton and Peale.

Oration to be arranged by Bleakley, Peale and Vaughan. Dr. Collin substituted for Mr. Williams, resigned from Committee on Antiquities.

1799. Feb'y 15. (Jefferson; McKean, Peale, J. B. Smith, Martin, Currie, Wistar, Barton, Seybert, Collin, Patterson, S. H. Smith.)

Com. on oration reported, that it would be delivered at the University Hall, $9\frac{1}{2}$ o'clock, A. M., Saturday, February 23.

Resolved to adjourn to meet in the Mathematical Room in the University at $9\frac{1}{4}$ A. M.

Report on Premium agreed to, as follows: "That a Premium of \$100 be offered, with the usual conditions of secrecy &c. to the author of the best Dissertation upon the following question: 'How far is it the duty & interest of the Community, to provide for the Education of Youth?'—and that Essays on the Subject be received until March 1st, 1800."

Regulations: 1. A Committee of five, chosen by ballot, at the first meeting in April next, to examine and report on the merits of the pieces, due notice of the election to be given to each member; 2. No essayist to accept election; 3. Any member of Committee who wishes to decline serving must resign within two months after the election; 4. Papers to be preserved by the Secretaries unopened until the first meeting in March, 1800; then delivered to the Committee who shall report thereon within two months; and "the Society shall ultimately decide within two months on

the said report otherwise the said report shall be conclusive."

1799. Feb'y 23. At the University Hall. Where Dr. Ben. Smith Barton delivered the Annual Oration on "The Natural History of the Indian Tribes of North America."

1799. March 1. (Patterson in the Chair; Magaw, Barton, Wistar, Peale, Turner, Freire [sic] and Woodhouse.)

"On the means of mitigating the calamities to which great cities are exposed" from Henry Wynkoop, "was referred to Jas. Woodhouse."

"On an improved steam engine" by Robert F. Livingston [sic] was referred to Patterson and Peale.

Williamson's paper on Ephoron leucon reported worthy of publication; so ordered.

Wistar's description of the Bones of the unknown animal, referred for examination to Dr. Shippen.

Jas. Ewing's "Columbian Alphabet," presented by the author. Thanks for his Oration voted to Dr. Barton.

1799. March 15. (Peale; Seybert, Wistar, J. B. Smith, S. H. Smith, Vaughan.)

Dr. Shippen reported Dr. Wistar's descriptions of the Bones to be very accurate. Publication ordered.

Prize Essays on Warming rooms. Committee reported that they found "the piece signed Economy' superior in merit to any of the other memoirs;" and altho' they agree with the Committee who formerly reported on the subject, and whose report they recommend to the perusal of the Society, "that the improvements are not to be regarded as entirely original," yet, they consider them so well combined and applied to domestic purposes, as to merit the most attentive consideration of the Society, and believe that when the date is considered, viz. March, 1797, it will appear proper to award the premium to the ingenious author.

1799. April 5. (Patterson; Seybert, Peale, J. B. Smith, Caldwell, Dr. Barton, Magaw, S. H. Smith, Turner.)

Jas. E. Smith's "Facts relative to Nat. Hist. London 1798," presented in the name of the author. Thanks voted.

Dr. Barton and Peale added to the committee on Peach tree Essays.

Collin added to Committee on Kuh's (?) paper on Longitude.

Committee on preserving fossil bones reported their work done.

1799. April 19. (Peale, Seybert, Barton, Smith, Vaughn [sic], Blakely, Patterson, Abercrombie, Turner, and Woodhouse.)

Patterson and Peale reported on Livingston's paper on the Steam Engine.

A memoir on the decay of the Peach tree received January, 1797, was returned at the author's request.

1799. May 3. (Patterson, Caldwell, Peale, Seybert, Blakely, Barton, Vaughn [sic], Woodhouse.)

Woodhouse reported on Wynkoop's Means for protecting cities.

"Adjudging the premium" on Warming rooms, made the business of the next meeting; notice in the newspapers to members.

1799. May 17. (Bleakeley [sic], Patterson, Turner, Smith, Seybert, Woodhouse.)

Adjudging the premium postponed.

A. Fothergill's two pamphlets received. 1. Rules, &c., Bath and W. of E. S. 2. Preservative plans, &c. Thanks voted.

Plans of the Eclipses of 1805 and 1806 by Mr. Lambert presented, and thanks voted.

"A letter was received from the Treasurer satisfying the

enquiry made in the minutes of 1st Feb. relative to a certain sum of money left in the hands of M^r. Rittenhouse."

Case of tetanus, cured by wine, &c., read and referred to Seybert and Woodhouse.

Dr. Hosack's pamphlet on Vision presented.

1799. June 25. (Patterson; Seybert, J. B. Smith, S. H. Smith, Barton, Caldwell, Wistar, Turner, Woodhouse.)

"A premium of \$60 was conferred on Messrs. Ch. Wilson & Raphael Peale, for an essay on the best method of warming rooms."

Books presented: "Fragments of Nat. History" by Dr. Barton. Thanks ordered. Treatise on Education, by Revd. S. Knox. Thanks ordered.

1799. July 19. (Wistar; Patterson, Peale, Turner, Dr. Barton, Bleakley, Wheeler, Woodhouse, S. H. Smith, Dr. Parke, Coxe, Davidson, Mr. P. S. De [sic] Ponceau, Dr. James.)

Committee on Peach tree premium to report next meeting.

Dr. Barton asked for time to prepare his Essay on the Indians for publication, "early in the fall."

Secretary to request Dr. Collin to complete the catalogue of books by next meeting.

A complete Set, or one or more Vols. as may be found requisite of the A. P. Trans. to be forwarded to each of the following Societies: viz. Am. Ac. A. & S. Boston (Vol. IV).—R. S. London (Vols. III, IV).—R. Irish. A. (IIII, IV).—L. & P. S. Manchester (IV).—Bath & W E. S. (one set).—Nat. Inst. Paris (IV).—A. A. & S. Petersburgh (one set).—Linnæan S. London (one set).—R. A. S. Lisbon (one set).—R. A. S. Turin (II, III, IV).—R. S. Edinburgh (one set).—R. S. Valencia (IV).—R. S. S. Upsal (one set).—R. S. Göttingen (one set).—R. Sweed. A. S. (one set).—Philada. Library (IV).—R. Acad. Berlin (one set).—Meteor. S. Manheim [no item is mentioned

& nothing is marked or dated "sent" in this case].—Rotterdam S.—Agric. S. of N. York (one set).—Mass. Hist. Soc. (one set).—Phys. S. of Lena in Saxony (one set).—Italian Soc. at Verona [nothing seems to have been sent to this].—Asiatic S. at Calcutta (one set).—R. S. of Madrid, Acad. de Hist.—Academy at Mexico (one set).—R. S. Copenhagen (one set).—Soc. Antiq. Scot. Edinburgh (one set). [The various dates & channels of transmission are marked on the margins of the page.]

Election of seven new members: Wm. Boys, A. M., John Redman Coxe, M.D., Thos. Peters Smith, Joseph Clay, and Wm. Maclure, all of Philadelphia; Sam. Elam, of Newport, Rhode Island; and Ben. Henry Latrobe, Engineer.

1799. Aug. 16. (Collin; McKean, Turner, Peale, T. P. Smith, S. H. Smith, James.)

Collin reported "considerable progress" in the Catalogue. Curators to "cause to be made a Bookcase, equal in size and of a fashion similar to that now in the Society's Hall, with this difference, that all the doors be glazed." Postponed voting.

"Ast. Obs. on the Coenecuh" in a letter from And. Elli-

cott, Esq., read and referred to Mr. Patterson.

"Plan & description of a horizontal Wheel" presented by the inventor, Sam. Felsted, Kingston, Jamaica.

Claypoole's bill for advertising premiums £5, ordered

paid.

Societies, additional, to be furnished with copies of the Trans.—Academies of Lyons (I, III, IV), Bologna (II, III, IV), Rouen (I, III, IV), R. A. B. L. Seville (one set).—Soc. Arts, M. & C. London (one set).—Antiq. S. London (one set).—Societies at Milan, and at Florence (sets). [No marks of these having been sent, are on the page, except in the case of the S. Arts & Antiq. S. London. But references to "correspondence" in the case of Bologna, Milan & Florence.]

Binding of a list of unbound books postponed.

1799. Nov. 1. (Patterson; Collin, Peale, S. H. Smith, T. P. Smith, Latrobe, Clay, Bleakley, J. B. Smith, Vaughan, Abercrombie, Barton, Woodhouse, Caldwell, Seybert.)

1799.

"Notes, Nº 1, on the Falls of Niagara" read by Dr. Barton.

Bookcase, "similar to the wing of the former bookcase, & proportionate to the space on the east side of the room," ordered.

Latrobe added to Committee on Felsted's paper on Windmills.

"Resolved, that the A. P. S. will in future make a publication of a Volume of their Transactions, or a part thereof, in every year on or before the 1st day of November, and that all the papers, which, previous to the 1st day of September shall be directed to be published, be immediately thereafter put into the hands of the Printer, after which no communication received shall be inserted in the Volume of that year."

Resolution to be published in different newspapers. Secretaries to attend to the distributions of the sets ordered in former resolutions.

Unbound books to be bound by the Curators.

Missing plates of the last Vol. Transactions (IV) to be "executed" by Mr. Dobson as soon as possible.

Ellicott's Astronomical Observations ordered for publication.

1799. Nov. 6. Special Meeting. (Patterson; Latrobe, T. P. Smith, Clay, S. H. Smith, Vaughan, J. B. Smith, Wheeler, Barton, Woodhouse, Caldwell, Seybert.)

Missing plates of Vol. IV. reported, nine in all. [List.] "Dobson says he has had no other plate than one describing a plant discovered by M^{r.} Beauvoir [sic], & declines incurring any expense attending the execution of any of the Plates, except that representing the above plant." Secretaries "requested to call on M^{r.} Dobson & inform him that the Society expected him to finish the volume."

Thanks voted to Turner for Indexes and other services. Invitation "by note" from Mr. Peale to the members to Introductory lecture of a course on Natural History November 16th.

Committee on Hosack's case of Tetanus reported that it had been already published in the Medical Report, New York, and should not appear in the American Philosophical Transactions.

1799. Nov. 9. Special Meeting. (Peale; S. H. Smith, T. P. Smith, Woodhouse, Seybert.)

Secretaries reported Mr. Dobson "willing to have the plates published, on his own account, so as to make the Volume (IV) perfect."

Order of business established for the next Stated meeting:
1. Society constituted; 2. Minutes read; 3. Report of Committees; 4. Papers, &c.; 5. Motions; 6. Adjournment.

1799. Nov. 15. (Wistar; Guillemard, Turner, S. H. Smith, Clay, T. P. Smith, Vaughan, Peale, Patterson, James, Coxe, Seybert.)

Secretaries reported "that Mr. Dobson had, in vain, endeavoured to find the drawing of the plates, which are deficient in the last volume & that he offers to publish them at his own expense, provided drawings be furnished"

Turner and Latrobe appointed a Committee "to form drawings, . . . to request M^r . Dobson to suspend the sale . . . and to write to the booksellers, to whom he has forwarded it, likewise to suspend the sale thereof."

Order of business, proposed at last meeting, referred to Patterson, Turner and Vaughan.

Nassy's "Lettre sur les Juifs" with a letter of presentation from the author. Thanks voted. Another copy to be forwarded to the City Library.

Donations from Mr. Vaughan: Nautical Alm. 1774. Van Swinden's Diss. sur les Therm. and Obs. sur le froid de Janvier, 1776.

Several Vols. of the French Ency. Meth. on the table, for inspection and sale. Vaughan directed to negotiate a purchase.

"Thermometrical Navigation," an essay by J. Williams, presented, and thanks voted.

Peach-tree Committees ordered to report at next meeting. Corresponding Secretary to request Dr. Collin to report definitely respecting the Catalogue by the Second meeting in December.

Clay and T. P. Smith added to the Committee apptd. May, 1797, to arrange and describe the Apparatus of the Society.

Clay and T. P. Smith added to the Committee on Laws, vice W. Barton and J. Williams.

Premium of Education to be further considered at next meeting.

1799. Dec. 6. (Turner; Collin, Woodhouse, Coxe, Caldwell, Seybert, Clay, Peale, T. P. Smith, W. Barton, Patterson, Vaughan, S. H. Smith, Latrobe.)

Dobson had taken measures to stop the sale of Vol. IV, and "will endeavour to have the plates completed."

Special meeting (at the request of Dr. Collin) called for 6 P. M. next Friday, to receive Catalogue and report of Committee, and adopt further regulations for the Library.

Committee on Apparatus "report them to be, An Electrophorus, A universal compound microscope, A compound burning glass, A 30-inch sliding rule, A wheel barometer with a thermometer, An electrical machine, formerly in the possession of F. Hopkinson, supposed to be now in the house of the late Dr. Rittenhouse, An achromatic telescope now in the possession of A. Ellicott, An eight day clock, A whalebone hygrometer, broken."

Committee on order of business, reported: 1. Society constituted; 2. Minutes read; 3. Communications received and referred; 4. Committees' reports; 5. Donations; 6. Incidental or local business; 7. Verbal communications, to be

recorded (if important) in a book for that purpose (see January 27, 1797): 8. Questions proposed at former meetings read and verbally or in writing remarked on; a summary of the most important to be put on record by the Secretaries; 9. Minutes of the present meeting read; 10. Adjournment. Report accepted.

Committee to reconsider the Report of a Committee to revise the By-Laws and form one code of the whole, reported "that it is inexpedient at present to make an application to the Legislature for an alteration in our Charter of incorporation, and 'that the Secs. be directed to collect & insert in the book which contains the fundamental articles & Charter all the bye-laws and regulations which are contained in the minutes & not already obsolete agreeably to a resolution of the Society of Jan. 27, 1797."

Vaughan reported the purchase of the Encyc. Meth. of Jas. Gibson, for \$150 (\$50 less than the price). Approved.

Remarks on No. XXII, Vol. IV, p. 190, by Judge Turner, referred to Dr. Sevbert.

Reported from Mrs. Sergeant and Mrs. Waters, Executrices of Mrs. Rittenhouse's will, that she had bequeathed \$200 to the Society "for the purpose of raising an annual fund to be applied to the keeping the observatory in order." Patterson, Vaughan and S. H. Smith, to receive and invest it.

Two Meteorological Tables kept at Michilimackinac by Gen. Wilkinson, presented and referred to Patterson.

"A large marine Excrescence," presented by J. Williams. "Recreations in Nat. His. &c.," No. 1, from Dr. Anderson of Edinburgh, with a promise to continue the series. Thanks voted.

"Experiments relating to the change of place in different kinds of air thro' several interposing substances," "Experiments relating to the absorption of air by water;" by Dr. Priestley; and "Misc. Exp. relating to the doctrine of Phlogiston;" read and referred to T. P. Smith.

Order of Business adopted to be neatly copied on Parchment, framed, and laid before the President at each meeting. Committee on Felsted's paper reported against its publication.

"The Soc. agree to pay $M^{r.}$ J. Dobson \$150 next spring, $M^{r.}$ Gibson having agreed to take the amount of his demand, in books, from $M^{r.}$ Dobson."

S. H. Smith, Latrobe and Vaughan, "to consider the propriety of presenting, by Memorial, to the Legislature of Pa. a view of the State of this Institution, & the benefits that would result to Science by an addition to the funds of the Society made by the Legislature."

1799. Dec. 13. Special Meeting. (Turner; Collin, Barton, Seybert, Woodhouse, Vaughan, Peale, S. H. Smith, T. P. Smith, Patterson, J. B. Smith.)

Dr. Collin "explained the general principles upon which [the Catalogue of Books] was formed. For which see Report." Thanks voted to Dr. Collin "for the industry & talents manifested in forming the Catalogue." Resolution ordered to be copied into the Catalogue. Report and Catalogue accepted. Books ordered to be "arranged on the shelves in the following order, viz.: Folios, Quartos, Octavos, Duodecimos, &c. & that the Vols. of each size be numbered from 1 onwards as far as may be."

"Dr. Collin makes an offer to attend Tuesdays & Fridays from 10 o'c. A. M. to 1 o'c. P. M. for the purpose of delivering Books to the Members of the Society, during those Hours, & that untill further order no books are to be taken out of the Hall—which was accepted."

[Pinned on to the page. "To inquire of D" Mease whether he has one Vol. of the Mem. French Acad. Also to write D. Ross. has the 12 Vol. Mem. des Chinois par les Miss. de Pekin. Paris chez Nyon, 1786." Books missing Romaine's E. & W. Indies; Percival's Essays Vol I.; Chattelleux' [sic] Felicité Publique; L'isle inconnue."]

1799. Dec. 20. (Patterson; Wistar, Coxe, Currie, Caldwell, Barton, Seybert, Vaughan, T. P. Smith, McGaw [sic], Peale.)

Priestley's paper: reading continued, viz. "Expts. on the transmission of Acids, & other liquors, in the form of vapour, over several substances in a hot earthen tube." "Expts. made with Charcoal, Phosphorus, & animal fibres in the Nitrous acid." "Misc. Experiments." Referred to T. P. Smith.

Turner's remarks on Sargent's paper reported worthy of publication. Accepted.

Priestley's papers read at the last meeting reported worthy

of publication. Accepted.

The Executrices of Mrs. Rittenhouse having the money bequeathed ready, and requesting the seal of the Society to be affixed to the receipt, "it was agreed that it be done."

Order of Business; additional article: "Pecuniary & Oeconomical Business of the Society discussed—not more than half an hour to be allotted to these objects"—to follow after Incidental or local business.

Committee on new Bookcase left at liberty to alter its dimensions "if necessary to accommodate the books, & to have a second wing made if wanted, or the centre part in lieu thereof."

Meeting ordered for Election first Friday January. Special meeting ordered on Friday next.

1799. Dec. 27. Special Meeting. (Patterson; Turner, T. P. Smith, Clay, Peale, Dr. Barton, Ruston, Wistar, Seybert.)

"The American Philosophical Society, taking into consideration the loss of their fellow-member George Washington, a citizen distinguished by his virtues & by his eminent services to his country,

"Resolved. That as a mark of their high respect & veneration for his character, it be recommended to the members to wear a black crape round the left arm, as mourning, for 30 days.

"Agreed, That a portrait of George Washington be procured to be hung up in the Society's Hall."

PROC. AMER. PHILOS. SOC. I. XIX. PRINTED JANUARY 26, 1884.

1800. Jan. 3. Between 2-5 p. m. Annual Election. (Patterson, Vaughan, Seybert, Peale, Collin, Clay, Du Ponceau, T. P. Smith. Vaughan, Collin, Smith, Judges; Seybert, Peale, Secretaries.)

1800.

President—Thomas Jefferson.

Vice-Presidents-Wistar, Patterson, Rush.

Secretaries-Seybert, Clay, S. H. Smith, T. P. Smith.

Councillors—Williams, Ellicott, Coxe, Magaw (3 years).

Councillors—Latrobe (2 years) "in the absence of Thos.

McKean, become the patron of the Society."*

Treasurer-Vaughan.

Curators-Peale, B. S. Barton, Turner.

1800. Jan. 7. (Jefferson; Wistar, Patterson, Barton, Magaw, Seybert, Clay, Latrobe, Vaughan, Duponceau, J. B. Smith, Peale, Caldwell, S. H. Smith, T. P. Smith.)

The Committee Connecticut Academy Arts and Science desiring the coöperation of the American Philosophical Society in prevailing on Congress to direct the Census to be taken in a more detailed manner, enclosed in their letter a Memorial to Congress, with the Act of incorporation and list of Officers of the Academy. The President and Vice-Presidents were appointed a Committee to frame a Memorial to Congress and present the same in the name of the Society. The Secretaries to assure the Conn. Academy of immediate and cordial coöperation.

1800. Jan. 17. (Patterson; Vaughan, La Trobe [sic], Wheeler, J. B. Smith, Turner, S. H. Smith, Bleakley, T. P. Smith, Abercrombie, Peale, Rush, Coxe, Park, Blackwell, Magaw, Duffield, White, Sybert [sic], Collin, Caldwell, Andrews.)

"On the essential Oil of certain plants" in a letter from B. Shultz, was read and referred to Coxe, Seybert and Barton.

The Memorial to the Legislature of Pennsylvania was then read and adopted.

⁴ I. en Governor of Pennsylvania.

To the Senate and House of Representatives of the Commonwealth of Pennsylvania.

The Memorial of the American Philosophical Society respectfully represents.

That, in the year 1769 a number of citizens of Pennsylvania, desirous of combining the talents of men of philosophical pursuits in the promotion and diffusion of useful knowledge, associated themselves into a society.

Meetings of the members were statedly held, at which numerous communications were made on subjects of science and of general utility. Under the auspices of an individual, whose memory is consecrated to science, the labours of a small body of men deservedly attracted the attention and received the patronage of the Legislature of Pennsylvania, and who incorporated them in the year 1780 into a society denominated "The American Philosophical Society for Promoting Useful Knowledge."

From this period the industry of the members of the Society appears to have been excited to new and persevering effort. Besides many fugitive productions, published in periodical and distinct works. they have published four large Quarto volumes of transactions. The first volume had previously appeared in 1771; the second appeared in 1786; the third in ; and the fourth in 1799; and as an honourable attestation of the esteem in which their Transactions have been held, it may not be amiss to state that in obedience to the public voice a second edition of the first volume was printed in the year 1789 and that some of the volumes have been reprinted in Europe. It becomes not the Society to express any opinion on the merit of the various productions contained in their volumes; a recurrence to which will demonstrate that the most eminent talents in the Union have been, thro' their means, drawn forth and usefully engaged in the discussion of subjects which embrace improvements and discoveries in agriculture, in mechanics, and in the various arts, the advancement of which is so generally connected with national prosperity.

In the year 1785, the Society, impressed with the importance of possessing, and sensible of the injuries sustained from the want of, a building which would afford convenient apartments for holding their meetings in, and be a safe depository for a philosophical apparatus, and for a library, then respectable, and ever since increasing, erected at their own expense, assisted by the liberal donations of private individuals, a hall 70 feet in front and 50 feet in depth, on a lot appropriated for that purpose by the Legislature. The expense attending the erecting of this building amounted to upwards of 8,000 dollars. As the Society had not immediate use for all the apartments in their hall, they let those that were unoccupied by themselves to Charles Wilson Peale, for the exclusive object of arranging and displaying the objects of his museum; and as an encouragement to an object of such national importance, they entered into a contract with him on terms of studied moderation. They are happy in being able to inform

the Legislature that since the removal of the museum to this Hall its extension has been so rapid as to excite and amply to repay the curiosity of men of science.

Under the superintendence of the Society Premiums for valuable improvements in agriculture and the several arts to the amount of

Dollars have been proposed; whereby new ideas have been excited and many interesting discoveries been made.

Animated by a love of science, ambitious of attracting to America the esteem of the enlightened, and above all other motives, anxiously solicitous to develop, to improve, and to extend the vet dormant tho' boundless resources of our Country, the A. P. Society has unceasingly pursued the objects of its institution, amidst the desolations of war and the violence of political feuds; and while others have been exclusively engaged in personal pursuits, the time and property of its members have been cheerfully devoted to the advancement of science. Hitherto the funds of the Society, if the lot on which their hall is erected be excepted, have been derived from individual contributions. Limitted [sic] as these, from their nature, must be, the expenditures of the Society appear, on review, to have been large and burthensome. In estimating the further necessary expenditures, it is not expected that a smaller annual sum will be, than heretofore has been, required. The field of science and research, every day enlarging, continues with each preceeding [sic] year to present new objects of attention, and to demand in their investigation additional resources.

Under these circumstances the A. P. Society addresses itself to the Legislature of Pennsylvania as the constitutional patron of useful knowledge. The liberal assistance bestowed on other institutions is an honourable pledge of the sincere and solicitous regard for science entertained by the Legislature and furnishes a well founded hope that a body, instituted for the advancement of science on the largest scale, and which in its character stands almost alone in the United States will be deemed worthy of national encouragement.

This encouragement is not desired for purposes of temporary moment. The Society will cheerfully discharge all ordinary and incidental expenses. But in their researches they labour under two serious and to them insurmountable obstacles, the want of scientific works, and of an extensive philosophical apparatus, commensurate to the objects of their attention. It is to be regretted, that while large collections of esteemed works in miscellaneous literature exist in various parts of the United States, no comprehensive collection of works on natural science have been made. This circumstance is the more to be lamented, as works of science are so numerous, and a complete philosophical apparatus is so expensive, as to be beyond the reach of individual purchase. From the want of these aids, talents often are uselessly engaged in making discoveries already made in Europe, which, otherwise directed, might have produced the most important results.

The State of Pennsylvania has long stood unrivaled in the Arts. The

enlightened impulse given to our public institutions, and to the private pursuits of our citizens, by her founder and his immediate successors, has imparted an energy to her literary character, which is felt and acknowledged to this day. At present a lively rivalship is cherished among her Sister States, who, having discerned, are prompt to seize, the benefits that are inseparable from the diffusion of knowledge.

It is our ardent desire, and we are sure that it is yours, that Pennsylvania should preserve unimpaired the pre-eminence she has so honourably

acquired.

With confidence, therefore, we rely on receiving such aid as the resources of the State will afford, and you, as the organs of the public shall deem expedient to bestow.

Resolved. That this memorial be signed by the officers of the Society and be forwarded to the governor of the State of Pennsylvania.

The Memorial to Congress was then reported:

To the Honourable the Senate and House of Representatives of the United States.

The memorial of the American Philosophical Society respectfully showeth that this Society instituted for the promotion of useful knowledge, understanding that the legislature of the Union have under their consideration a bill for taking a new census of the inhabitants of the U. S. consider it as offering an occasion of great value and not otherwise to be obtained of ascertaining sundry facts highly interesting and important to Society. Under this impression they beg leave respectfully to submit to the wisdom of the legislature the expediency of requiring from their officers, in addition to the table in the former act for the same purpose, others presenting a more detailed view of the inhabitants of the U. S. under several different aspects.

They consider it as important to determine the effect of the soil and climate of the U. S. on the inhabitants thereof; &, for this purpose, dividing life into certain epochs, to ascertain the existing numbers within each epoch from whence may be calculated the ordinary duration of life in these States, the chances of life for each epoch thereof, and the ratio of the increase of their population; firmly believing that the result will be sensibly different from what is presented by the tables of other countries, by which we are from necessity in the habit of estimating the probabilities of life here. And they humbly suggest as proper for these purposes the intervals between the following epochs, viz. birth, 2, 5, 10, 16, 21 & 25 years of Age & every term of 5 years from thence to 100.

For the purpose also of more exactly distinguishing the increase of population by birth and by immigration they propose that another table shall present in separate columns the respective numbers of native citizens, citizens of foreign birth & of aliens.

In order to ascertain more compleatly [sic] the causes which influence

life & health and to furnish a curious and useful document of the distribution of society in these states and of the conditions & vocations of our fellow citizens, they propose that still another table shall be formed specifying in different columns the number of free male inhabitants of all ages engaged in business under the following or such other descriptions as the greater wisdom of the legislature shall approve: viz 1, men of the learned professions, including clergymen, lawyers, physicians, those employed in the fine arts, teachers and scribes in general. 2, merchants and traders including bankers, insurers, brokers and dealers of every kind. 3, mariners. 4, handicraftsmen. 5, labourers in agriculture. 6, labourers of other descriptions. 7, domestic servants. 8, paupers. 9, persons of no particular calling living on their income: care being taken that every person be noted but once in this table and that under the description to which he principally belongs.

They flatter themselves that from these data truths will result very satisfactory to our citizens, that under the joint influence of soil, climate & occupation the duration of human life in this portion of the earth will be found at least equal to what it is in any other; and that its population in-

creases with a rapidity unequaled in all others.

What other views may be advantageously taken, they submit with those above suggested to the superior wisdom of Congress in whose decision they will acquiesce with unqualified respect.

Resolved That a copy of this memorial be forwarded to the Connecticut

Academy and another to the Boston Academy.

Election of Members:—Robert Liston, Esquire, H. B. M. Envoy Extr., &c.; John R. Smith, A. M.; Justus Eric Bollmann, M. D. of Philada., and William Dunbar of the Mississippi Territory.

1800. Feb'y 7. (Jefferson; Vaughan, J. Smith, Bleakley, Patterson, Smiley [Finley?], Bollmann, S. H. Smith, T. B. Smith, Coxe, Seybert, Peale, Barton, La Trobe [sic], T. P. Smith.)

"On a supposed new species of Oniscus" in a letter from H. B. Latrobe [sic], was referred to Dr. Barton.

"Sketch of a geographical view of the Trees & Shrubs of N. America," a memoir read by Dr. Barton; referred to Mr. Latrobe [sic].

Committee on Shultz's paper on Essential Oils; report accepted.

Committee on Priestley's three papers, reported.

Committee on Mrs. Rittenhouse's legacy, reported its receipt and investment in 8 [sic] per cent stock of the United States. "The Com. gave 2 p. c. advance, which may be reimbursed from the first receipt of Interest, viz. 4 Dls."

[Six blank pages follow.]

1800. Feb'y 21. (Patterson; Barton, Seybert, Vaughan, Dubois, Woodhouse, Currie, S. H. Smith, Wistar.)

Latrobe's paper on Oniscus, "called by the author O. prægustator," reported worthy of publication. Agreed to.

"The Treasurer communicated to the Soc. a certified extract of a letter from Sam. Elam Esq. of Newport, R. I. dated Jan. 21, 1800 to John Brown Esq. Member of H. of Rep. U. S. enclosing a letter to George Turner, covering 500 Dollars for the Society. Also affidavits of Thomas Claxton and Andrew Walker proving the delivery of said money to George Turner." Thanks voted to S. Elam for his "liberal donation," and "assuring him that the Soc. will pursue the most effectual measures required by the unworthy conduct of George Turner. Sam. H. Smith appointed a Come."

"Resolved that the Treasurer be authorized to take such measures in relation to the recovery of the money from George Turner, as he shall deem necessary; and that he be authorized to appropriate such sums as shall be required for said purpose. Papers presented by the treasurer lodged with him for the present."

"Resolved that Samuel H. Smith be associated with the Treasurer in the performance of the above duties."

"A proposition was made to expel George Turner from this Society, which was committed to Messrs. Patterson and Vaughan, to report at the next meeting."

1800. March 7. (Collin; Vaughan, Barton, Currie, Peale, Collin, T. P. Smith, S. H. Smith.)

The Treasurer reported the measures he had taken as to Elam's donation; report agreed to. Vaughan and S. H. Smith to carry it into execution.

Dr. Barton permitted to draw the Mammoth bones, provided it be done in the Society's Hall.

A singular case of Chir. Medical Operation at Upsal, by M. Bergsten, was presented and referred to Seybert and Wistar.

Committee on Turner's expulsion discharged. "The Society will proceed next meeting to the election of a Curator in the place of George Turner, resigned;" notice to be given to members.

"A donation was received from Samuel Elam, of Newport, R. I. of Five hundred Dollars, to be disposed of in such manner as shall best promote the objects of the Society." Thanks voted "to Samuel Elam, a member of this Society, for the above donation, as an evidence of their sense of his distinguished liberality & regard to science."

1800. March 21. (Jefferson; Patterson, Seybert, Barton, Vaughan; Bleakley, Peale, Wistar, Woodhouse, S. H. Smith.)

"A description of a newly constructed Time Piece" from Burgis Allison of Bristol (Pa.) was read & referred to Patterson and Clay. Secretary to write that "the Soc. will be happy in receiving further communications."

"Description of proposed Substitute of leather saturated with oil, for copper in the Sheathing of vessels," from H. Guest, New Brunswick, read and referred to Patterson and Barton.

"Nouvelle voilure proposée pour les Vesseaux de toutes grandeurs," a work by David le Roy, Paris; from the author. Thanks voted. Also Dupont de Nemours' Philosophie de l'univers. Thanks voted and delivered by Jefferson.

"The Com. to whom was intrusted the settlement with George Turner, made report that they have taken the advice of the best council for their guidance. They have taken Major Turner's Bond, with a power to confess judge-

ment thereon for 450 Dollars with interest from 17th March. the bond payable 17th Dec. next; and as security for the same, and for the expenses which may be incurred in examining title &c., they have taken a mortgage with power of sale on 10 days notice on 9,000 acres land in Harrison Co-Virginia, in the name of the Committee in trust for the Society, the bond being to the Society itself. This mode was adopted by the advice of their council. From the enquiries made the Com, are led to believe, the debt may be paid anterior to the term of the bond; and further report that said Turner is willing to authorize the sale of part of the land at a very low price, whenever the Com, can find a purchaser in order to the full discharge of the debt. And your Com. to have the deed recorded and take the necessary steps for ascertaining the value of and title to the property, advancing the necessary expenses therefor, to be reimbursed by Geo. Turner; but propose allowing some little time previously to elapse, to give time for sale." "March 21, 1800 The Patents, Bond and deed of Trust in hands of Treasurer." "The report was agreed to and the Com. who reported it authorized any farther necessary steps."

"The Society proceeded to the election of a Curator in the room of George Turner, when the ballots being taken it appeared that John R. Smith was elected,"

A motion for Committees to be in future nominated by the presiding officer, subject to the control of the Society, was ordered to lie on the table.

- 1800. April 4. (Patterson; Collin, Barton, Clay, Seybert, J. R. Smith, Coxe, Duponceau, S. H. Smith, Peale, Wistar.)
- "An abridgement of his former Piece on essential oils" from Dr. Shultz, was referred to Barton, Seybert and Coxe.
- "A map of the Island of Bartholomy" by S. Fahlberg Phys. to Swe. Gov^{t.} in said island, from the author.—Also

Chancellor G. Paikull's Fauna Suecica Insecta, 2 Vols in one, 8° from the author with a promise of more.—Both through D^{r.} Collin. Thanks voted.

Committee on Allison's Time piece reported. Ordered for publication.

"A letter was received from the Treasurer stating his inability to receive the dividents [sic] on the 8 p. ct. stock purchased with the money left by Mrs. Rittenhouse, without a power of attorney under the seal of the Society." Ordered.

Committee of February, 1799, on moneys for Micheau [sic] expedition ordered to report at next meeting.

Committee on Peach tree essays: Dr. Coxe added.

- "Dr. Collin presented a Statement of sums received by him for the Society, to aid Mr. Micheau's projected expedition some years since; received previously to 25th April 1793, viz. Alex. Hamilton \$12.50; Geo. Washington \$25; John Vaughan \$12.50; Walter Stewart, John Ross, J. B. Bordley, each \$5; Wm. White \$2.50; Robert Morris \$20; Ewing, S. Powell, McConnell, Nixon, each \$2.50; S. Coats, \$2.25; B. Bache, Jared Ingersol, M. Clarkson, J. Dorsey, each \$2; R. Blackwell, N. Collin, each \$4; Thos. Jefferson \$12.50.—Total \$128.25.
- 1800. April 18. (Jefferson; Vaughan, Clay, Barton, J. B. Smith, Peale, Coxe, White, S. H. Smith, Duponceau, Seybert, Patterson, Collin, J. R. Smith.)
- "Experiments on the production of air by the freezing of water," by Dr. Priestley, referred to Wistar and Woodhouse.
- "On the Analogy between Vegetables, and Polypi and Insects," in French, by Dupont de Nemours, referred to Dr. Barton.

"On the refinement of Camphire [sic]," a letter from Dr. Shultz, read by Dr. Seybert.

Donations: A pair of 18-inch globes from Mr. Wm.

Jones, of London; Ebeling's Geography United States, Vols. IV and V; Lettsom's Naturalist and Traveler's Companion, third edition; Lettsom's Natural History of the Tea-tree, &c., 4°; Portaits of Dr. Letsom [sic] and Dr. Symmes; W. Jackson's arrangement of Hassenfratz and Adet's Chemical Nomenclature, Acts of Lavosier, Bertholet and Fourcoy [sic]. Thanks voted.

Election of three new members: S. Brown, M.D., of Kentucky; S. Miller, A.M., New York; "Dupont de Nemours, late of France, now residing in the United States."

1800. May 2. (Jefferson; Seybert, Vaughan, Barton, Coxe, Jon. B. Smith, Bolman, Maclure, Allison, Peale, S. H. Smith, Wistar.)

"On a new invention for computing the longitude," by Hiram, offered for the Magellanic premium, and referred to Patterson and Clay.

"Description of a new pendent Planetarium," invented by

Mr. Burges Allison, referred to Patterson and Clay.

Committee on Dupont's Analogy reported it worthy of publication. Agreed to.

Committee on Burgsten's Surgical Memoir reported that the case "appeared very alarming at first sight, but was in reality not important." Not expedient to publish it. Agreed to.

1800. May 16. (Patterson; Williams, Vaughan, Liston, Leslie, Peale, Drs. White, Seybert.)

"Therm. Obs. made [by W. Strickland] at sea," read and referred to Vaughan and Wistar.

Thanks voted to Mr. Sims, owner of Ship Fame, for relinquishing £3 "16" 6, freight on the globes.

Ordered paid, £6 ·· 16 ·· 2 for Encyc., Livraisons 59, 60, 61, "sent over by Dr. Grassy to Mr. Jas. Gibson." 1800. June 20. (Wistar; Patterson, Collin, Ellicott, Coxe, Barton, Vaughan, Williams, Peale, Allison, J. B. Smith.)

"Analysis of Black Vomit," by Dr. Isaac Cathrall, read and referred to Seybert and Woodhouse.

Compasses with points always perpendicular to the paper: a drawing by John J. Hawkins, of Frankfort; referred to Patterson and Clay.

"On the formation of water in plants," by Dupont de Nemours, read and referred to Jon. Williams for translation. Also a corrected copy of his previous memoir on Polypus, which he wished destroyed.

Iceland crystal, three specimens, found on a sand bar in the Mississippi, from And. Ellicott. ("Described in Eng. Phil. Transactions, 2° part 1797.")

Donations: Barton's treatise on the Goitre; 50 copies of Jon. Williams' Thermometrical Navigation; Ellicott and Vaughan, a Committee to distribute them. Thanks voted. Jos. Treat's Inaugural Essay on the effects of light on Respiration; Rob. Berkley's Inaugural Essay on Sedatives; Dr. Anderson's Recreations in Agriculture, Nos. 4 to 12 (ordered bound in 2 Vols.]. Thanks to the above three authors.

Committee on Strickland's paper, reported [blank space]; report agreed to.

Secretaries and Treasurer to report the materials ready for the next volume, and best mode of publishing the same.

1800. July 18. (Patterson; Woodhouse, Cox [sic], Andrews, Bleakeley [sic], J. B. Smith, S. H. Smith, Duponceau, Ellicott, Peale, Allison, Collin, Wistar.)

Committee on Allison's Planetarium, "reported that it is not unworthy of publication." Agreed to.

Committee on Hawkins's Compasses, reported "that the invention was not of sufficient practical utility to warrant the publication." Agreed to.

Secretaries reported partially respecting papers for publication.

"On the Constitution of the Water of the Ocean, & on the effects of Soda in rendering it fit for the washing of wearing apparel & other foods at Sea," by Dr. S. L. Mitchell, of New York, read and referred to Woodhouse and Wistar.

Dupont's Memoir, translated by Jno. Williams, was refer-

red to Dr. Cox and Mr. Clay.

Committee on Priestley's paper, reported it worthy of

publication; report adopted.

Election of new members postponed, because "the proposal of the candidates" had not been "made a sufficient time before the present meeting."

1800. Aug. 15. (Drs. Wistar, Cox, Barton, Woodhouse, Ruston; Messrs. Peale, J. B. Smith, Jon. Williams, A. Ellicott, Clay, Vaughan, Revd. B. Allison.)

"Experiments on air exposed to heat in metallic tubes," by Priestley, read and referred to Wistar and Woodhouse.

"Ast. & Ther. Obs. made* at the confluence of the Miss. & Ohio rivers, Natchez & N. Orleans," and "Obs. on the Transit of Mercury made at Miller's plantation," by A. Ellicott; read and referred to Mr. Patterson.

Donation: J. B. C. Rousseau's Inaugural Dissertation on Absorption. Thanks.

"Obs. on the vitiated condition of the Atmosphere arising from combinations of azote and oxygene [sic]" by Dr. S. L. Mitchell, New York, referred to Barton and Seybert.

Committee on Cathrall's paper on black vomit reported it worthy of publication; report adopted.

Committee on Dupont's paper reported that although ingenious, it was not of sufficient importance to publish.

Jac. Strembech's bill for painting and glazing the bookcase £3 ·· 2 ·· 6, and W. Roberts, for making book-case £31 ·· 16 ·· 3. Treasurer "directed to settle these accounts."

^{*} Cairo.

Houdon's bust of Franklin. "M^{r.} Williams presented to the Society a bust of their late president D^{r.} Franklin (by Houdon) the thanks of the Society were returned to M^{r.} Williams for his donation."

Treasurer reported partially respecting papers for Transactions. Woodhouse, Wistar, Patterson, and the Secretaries to be a Committee to arrange the papers for Vol. V.

1800. Sep. 19. (Patterson; Barton, Wistar, Woodhouse, Bleakley, Peale, Allison, Vaughan, Clay.)

"Proposed plan of a City," with a drawing, by John J. Hawkins, read and referred to Mr. Bleakley.

Wilkinson's Meteorological Journals and Ellicott's Astronomical Observations reported by Mr. Patterson worthy of publication.

List of papers for Transactions Vol. V. reported by Committee.

Priestley's paper on Air, &c., ordered for publication.

Mitchell's paper on Sea Water reported for publication.

Donation: De Jaudenes' Discourse on the Utility of Commerce with the Island of Majorca. Thanks voted to the author.

"A letter from the College of Physicians respecting the rent of the room occupied by the College, was read & referred to M^{r.} Vaughan, M^{r.} Bleakley & M^{r.} Clay."

Committee on papers authorized to agree for the printing of next Vol. Transactions with Mr. Dobson, "or in case of his refusal with any other printer." Committee ordered to prepare the papers, and "that no papers be delivered to the printer until the whole be ready."

"Description of a Stopper for the openings by which the Sewers of cities receive the water of drains," by Mr. John

Frazer, read and referred to Peale and Leslie.

1800. Oct. 3. (Wistar; Ellicott, Barton, Peale, Dr. Shippen, J. B. Smith, Allison, Vaughan, Dr. Cox, Williams, Clay.)

"Thermometrical Obs. for a series of years, made by John F. Mifflin;"—

"Meteor. Obs. on board the Ship Geo. Barclay from Phila. to Madras & Calcutta, from March 1798 to Nov. following:—"

"Obs. taken at the mouth of Buffaloe creek on Lake Erie in the summer of 1798, Lat. 42° 53′ N°. Long. 3° 44′ W from Philada:"—communicated by Mr. Williams.

"A Carton to contain the Meteor. communications made to the Society," ordered, through Mr. Vaughan.

Dr. Barton requested to procure Rittenhouse's Meteoric Observations for twenty-seven years "in continuation."

"Ast. & Miscell. Obs. made on the boundary between the U. S. and his Cath. Majesty," from A. Ellicott, read and referred to Patterson and Clay.

Frazer's Stopper for drains reported worthy of publication.

Committee on Peach Tree Essays reported "that none of those papers which they have examined appear entitled to the premium because they do not fully embrace the great object of the Society's question; because the Experiments do not appear either sufficiently numerous or continued for a sufficient length of time; and because, with the exception of a single paper by John Ellis, the experiments do not appear to be so fully authenticated, as the subject seems to demand.—The Com. deem the two papers signed John Ellis, & X, Y, Z, as deserving the attention of the Society, more especially the last;" signed, Coxe, Barton and Peale.

Resolved that the premium be equally divided between these two. The letter X, Y, Z, being opened, the author proved to be Thos. Coulter, Esq. of Cumberland Valley, Bedford Co., Pa.—Ellis' paper, referred to Wistar; and Coulter's to Barton, "for revisal."

Secretary reported Dobson willing to print Vol. V. on the same terms as Vol. IV.

Barton's Sketch of a geographical view of the trees and

shrubs of North America, reported by Latrobe, "well worthy of publication."

Wilkinson's Meteorological Journals to be deposited in the

Carton.

Mr. Vaughan reported partially respecting the room occu-

pied by the College of Physicians.

Secretary ordered to inform Ellis and Coulter of the decision respecting the premium, and "to publish in the different newspapers an abstract of the minutes; & an advertisement to the author of * X (March 16, 1798) to communicate with the Secretary.

1800. Oct. 17. Dr. Collin; Woodhouse, Barton, J. B. Smith, Ellicott, Allison, Vaughan, Wheeler, Patterson, Dr. Coxe.)

"M^r Vaughan handed the 2^d & 3^d numbers of the Recreations in Agriculture &c which had lain in the Custom house many months for want of a letter of advice." Secretary to thank Dr. Anderson, of London, and explain delay.

Observatory: "M^{r.} Patterson laid before the Society a draft of a new deed relative to the observatory which Mrs. Waters & Mrs. Searjeant [sic] wish to have altered. Referred to M^{r.} Patterson & M^{r.} Vaughan to consult counsel & if it can be legally done they are authorized to agree to it."

Committee to fix upon subjects for premiums: Ellicott, Woodhouse, Patterson, Wistar, Dr. Cox [sic].

1800. Nov. 7. (Wistar; Allison, J. B. Smith, Patterson, Barton, Williams, Peale, Dr. Coxe [sic].

Translation of a "Treatise of Artillery &c.," presented by Mr. Williams.

Postscript to Ellicott's paper referred to same Committee. "On the figure of the Earth," a paper presented by Mr. Clay, "ordered that it be published."

Ellicott's paper of October 3, reported worthy of publication.

Legeaux's Meteorological Observations mislaid; Secretary to request another copy "& that they [the Society] will always receive with pleasure any further communications he may make on the subject."

Plan for making Meteorological Observations to be re-

ported by J. B. Smith, Patterson and Allison.

Hawkin's Plan of a City: Clay and Williams added to Committee.

1800. Nov. 21. (Patterson; Vaughan, Peale, Ellicott, Drs. Boys, Wistar, Woodhouse, Barton, Seybert.)

Agreement reported between the Society and College of Physicians to pay \$40 per annum rent for the room they occupy, from December 10, next; six months notice from either party requisite to cancel the lease; read and approved.

Dobson's receipt for sixteen papers for Vol. V. read.

Donation: Peale's Introductory Discourse on the Science of Nature. Thanks voted. Adams' Lectures on Philosophy, five Vols. 8°, from Wm. Jones, London. Thanks voted.

Translation of Baudry de Loziére's paper on Animal Cot-

ton, read, and ordered for publication.

Letter from Mr. Bull to Dr. Barton, read and referred to Mr. Ellicot [sic] to put in the printer's hands if he think it worthy of publication.

Encyclopædie, Livs. 65, 66 (cost 81 francs, or \$14.85) with D^{r.} Grassi's letter of August 15, "that they talk of (but without promising) two or three Livraisons more to close this work." Payment ordered.

Treasurer ordered to pay Mr. Dobson \$150 for set of French Encyclopedia, purchased from Jas. Gibson, Dec. 6, 1799.

Members permitted to use the Encyclopedia by giving a receipt to Mr. Peale for parts taken out.

1800. Dec. 5. (Patterson; Barton, Woodhouse, Peale, Allison, Vaughan.)

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Report of Committee on subjects of premium laid over. No papers for Magellanic premium.

1800. Dec. 19. (Wistar; Duponceau, Clay, Ellicott, J. B. Smith, Latrobe, Patterson, Legaux, Peale, Drs. Barton, Shippen, Woodhouse, Coxe, Seybert.)

Committee on "Deed of conveyance from Hannah Rittenhouse, Eliz. Sergeant [sic] and Hannah Waters sole heirs & residuary devisees of the great Rittenhouse, to the [American Philosophical Society] upon certain Trusts & for certain uses therein expressed, which deed bears date the 10th of March 1797—also the draught of a new Deed cancelling the former" reported that, in his opinion,* as the "uses" and "trusts" affected only the "grantors" and "grantees," they may be revoked by mutual consent. But the deed of March 10, 1797, having been recorded cannot be canceled.

"Therefore as to such parts thereof as the grantors wish to have again, the old uses ought to be revoked by an Indenture to be executed between the parties, in which the Society should covenant to stand seized thereof to the uses of the said grantors & of their heirs as of their former estate respectively, in which Indenture it might be recited that the thing is done by mutual consent & for the greater advantage & convenience of all the parties, & any particular clauses or agreement that they may besides have agreed upon might with propriety be inserted."

Signed Peter S. Du Ponceau. Vaughan and Du Ponceau, "to concert a proper mode of carrying the above Report into effect."

Subjects for premiums reported:—(Agreed to.)

- 1. "For the most simple, convenient & effective method of ventilating a ship at sea, without manual labour," if superior to any now in use, \$100: limit of time, April 1, 1802.
- 2. "For the cheapest & most effectual method of rendering Common Oil fit to be burned in the Argand-lamp, either by purifying the oil, or by improvement in the lamp," \$35, April 1, 1802.
- 3. "For any simple & effectual method of rendering Turpentine, or any other cheap inflammable substance, a fit fuel for street or house Lamps or a proper material for Candles," \$40, April 1, 1802.

Duponceau was the Committee.

4. "For the best experimental Essay on the native red dies [sic] of the U. S., accompanied with small specimens of the dyed stuffs," \$150, Jan. 1, 1804.

Donation: Mazère's Scriptores Logarithmatici, Vol. III. Thanks to donor.

Catalogue to be completed (by Dr. Collin) "by inserting such books as have been received since it was first presented."

Stock of Trans.:—Vaughan and Woodhouse "to enquire into the state & situation of the three first Vols."

Trans. American Philosophical Society.—Secretaries and Treasurer to distribute Vol. IV. "as they conveniently can, agreeable to former Resolutions of the Society."

Annual election ordered January 2, 1801.

1801. Jan. 2, between 2 and 5 p. m. (Allison; Collin, Peale, Barton, Patterson, J. B. Smith, Magaw, Seybert, Leslie, Coxe, Williams, Vaughan, Abercrombie.)

Leslie, Peale, Collin, Judges; Vaughan, Allison, Secretaries.

ELECTION OF OFFICERS.

President—Thomas Jefferson.

Vice-Presidents—Wistar, Patterson, Ellicott.

Secretaries—Coxe, Seybert, Clay, Allison.

Councillors—J. B. Smith, Currie, Wheeler, Duponceau.

Curators—Peale, Leslie, J. R. Smith.

Treasurer—Vaughan.

- 1801. Jan. 16. (Ellicott; Peale, Vaughan, J. B. Smith, Patterson, Williams, Dr. Priestley, Magaw, Barton, Shippen, Collin, Woodhouse, Currie, Seybert, Wistar, Allison, Coxe.)
- "On an Anemoscope, Pneumatometer & Rain-gauge," by Dr. Allison; referred to Patterson and Clay.
 - "A very extraordinary appearance of Shooting Stars off

Cape Florida," in a letter from Mr. Ellicott to Mr. Patterson, read and referred to Patterson and Clay.

"On a method of finding the Equation for the change of the Sun's Declination when equal Altitudes are used to regulate a clock or other time keeper," by Mr. Ellicott; referred to Patterson and Clay.

Committee on Meteorological Observations reported the following plan:

1. That, as soon as proper instruments can be provided, a series of Met. Obs. be commenced at the Hall of the Society.—2. That, the Treasurer be directed to procure a Barometer; two Six's Thermometers; two common Thermometers; a Hygrometer; an Anemometer; a Rain-guage; a Magnetic needle; an Electrometer.—3. That, a suitable person be employed to make & register Observations.—4. That, through newspapers &c. a general invitation be given to societies & individuals to make & communicate similar Observations at stated times, receiving in return a copy of the Society's Observations.

This plan was referred to the Committee to carry into effect.

The following communications were received from President Jefferson:

- "On a language by signs," in a letter from Dunbar to Jefferson; with
 - "Met. Obs. for 1799 at the Natchez;" and
- "An extraordinary phenomenon which passed Baton Rouge, on the night of April 5, 1800."

Count Rumford's letter to Jefferson, with Prospectus and Laws of the R. Inst., Great Britain. All the above referred to Ellicott and Wistar.

Secretary ordered to notify Jefferson of his election.

Election of six new members:—S. Falberg, Phys. Swed. Govt., St. Bartholomews; Gus. Paykull, Sweden; Alex. Remerez [sic], First Sec. to Junta of Guatemala; Dr. Fr. Blanchet, Quebec; Rob. R. Livingstone, Chanc. N. Y.; Wm. Jones, Math. Inst. Maker, London.

1801. Feb. 6. (Patterson; Wistar, Ellicott, Woodhouse, Barton, Allison, Priestley, Vaughan, Duponceau, Peale, J. B. Smith, Latrobe, Coxe.)

David Austin's letter, partly read, laid on table.

"New Species of Vallisneria growing near Philada., called by him V. Americana," with a drawing, by Dr. Barton; referred to Latrobe.

"Table of Geographical positions in America," by Don Jos. Joachim de Ferrer, of Cadiz; referred to Ellicott and Clay.

Committee reported Dunbar's papers worthy of publication. Accepted. Also, a draft of answer to Count Rumford.

Jefferson's acknowledgment of election read.

Treasurer reported sending "four Vols. Trans. to Acad. Hist. Madrid, by Ship *Harry*, to Lisbon, under care of Don Josef de Arango going immediately to that city." (See order of July 19, 1799.)

Report of Committee on Premiums (Dec. 19) ordered to press, with "as much of the successful communications on Peach trees, necessary to public advantage."

Treasurer directed to renew Insurance on Hall and Library.

1801. Feb. 20. (Ellicott; Priestley, Barton, Woodhouse, Seybert, Collin, Bollman, Patterson, Vaughan, J. B. Smith, Peale, Williams, Coxe.)

Treasurer reported renewal of Insurance for one year, at \$15.60. (Hall, \$4000; Library, \$1200.)

Complete set of Trans. American Philosophical Society ordered to R. I. G. B., with letter to Count Rumford.

Committee to collect information of "a very extraordinary Meteor lately seen in various parts of U. S." Barton and Ellicott.

1801. March 6. (Wistar; Priestley, Ellicott, Williams, Patterson, Vaughan, Peale, Coxe.)

"Improved method of projecting and measuring plane angles," by Mr. Patterson; referred to Ellicott.

Donation from Mr. Williams:—"Elements of Fortification, translated from the french." Thanks ordered.

Secretary to buy two books to enter Verbal Communications and Philosophical Questions, as ordered January, 1797, and a Donation Book.

1801. March 20. (Patterson; Barton, Peale, Vaughan, Ellicott, J. B. Smith, Allison, Coxe.)

Report of Ellicott on Patterson's paper received; Secretary reported printing Ellis's paper on Peach trees in the public papers.

1801. April 3. (Williams; Gov. McKean, Ellicott, Vaughan, Bleakeley, Peale, Allison, Patterson, Barton, Wistar, Caldwell, Woodhouse, Seybert, Coxe.)

"On Ventilators & Lamp Oil," by Rich. Robotham, in a letter to Jefferson, referred to Woodhouse and Patterson.

Dr. John Vaughan's (Wilmington) Valedictory Lecture to Philosophical Society of Delaware, and letter to the American Philosophical Society; referred to Woodhouse, Patterson and Seybert. Thanks ordered.

"Case of Albino," by Dr. Coxe; referred to Wistar and Barton.

"Five tables relating to Thermo. Obs. in french," from P. Legaux; referred for translation to Vaughan and Du Ponceau.

Cuvier's Leçons d'Anat. Comp., 2 Vols. from T. P. Smith, with a letter; referred to Wistar and Clay.

Secretary reported shipping the Transactions and letter to Rumford, per Ship George.

Electrical apparatus loaned to Dr. Woodhouse.

Celestial and Terrestrial globes loaned to Mr. Patterson.

1801. April 17. (Ellicott; Woodhouse, Barton, Coxe, Collin, Wistar, Seybert, Caldwell; Patterson, Vaughan, J. B. Smith, Latrobe, Allison, Bleakeley, Briggs, Peale, Clay.)

Translation of Legeaux's paper partly read.

Committee reported Barton's "Vallisneria" well worthy of publication.

Mr. Jonathan Williams requested the Society "to accept an assignment of his right" in "his patent for a new mode of refining Sugar by which a saving of 20 per cent appears to be made."

Election of three new members: Thos. Tickell Hewson, Philadelphia; Don. J. J. de Ferrer, Cadiz; Don. Fr. Peyrolon, Secretary Royal Society de Amigos del Pais de Valencia.

1801. May 1. (Wistar; Drs. Barton, Seybert, Hewson, Coxe, Woodhouse; Messrs. Williams, Peale, Patterson, Allison, Ellicott.)

"A plain and precise projection for clearing the Lunar Distances from the Effects of Parallax & Refraction," by Mr. Garnet, of New Brunswick. Thanks ordered.

Committee on Plan for conducting the business of the Library: Ellicott, Patterson, Hewson.

1801. May 15. (Patterson; Currie, Woodhouse, Coxe; Hewson, Wistar, Seybert, Magaw; J. B. Smith, Vaughan.)

Letter of acknowledgment from Mr. W. Jones (of London) read.

"Agreed that the members be allowed to take books out of the Library and the Com. . . . report regulations &c.;" and to report the best way of preserving and filing the Papers.

Committee to see Williams' Experiments on Sugar refining appointed: Vaughan, Seybert, Woodhouse.

"Mr. Vaughan presented 32 copper coins or Medallions

from the Soho Mint invented by $M^{\rm r.}$ Boulton, with a list & card describing the principles."

Ellis's and Coulter's papers on Peach trees to be prepared for publication by Dr. Wistar.

Peale requested to furnish Mr. Dobson for publication his paper on the mode of warming rooms.

Requests presented from "Lime," the candidate for the Peach tree Premium, and from the candidate for Premium on the best mode of pumping ships [no explanation].

1801. May 22. Special Meeting. (Ellicott; Hewson, Wistar, Seybert; Peale, Vaughan.)

Geo. Turner's bond not having been paid, it was resolved to sell the lands; Patterson and Vaughan a Committee to buy them in "for the security of the Society in case they should not sell for such sum as will cover the Debt, Interest & Costs aforesaid," or "to convey over the same to any person who shall pay the full amount of the Debt, Interests & Costs aforesaid. Deeds & conveyances to be made ander the Seal of the Soc. for transferring & assuring to the purchasers . . . S. H. Smith one of the trustees to whom the said lands were conveyed, now resident in Washington . . . authorized & required to constitute R. Patterson . . . his legal attorney, on final settlement the Treasurer to give up then all claims to other property of G. Turner."

- 1801. June 19. (Patterson; Drs. Woodhouse, Wistar, Coxe; Revd. Mr. Allison; Messrs. Vaughan, J. B. Smith, Bleakeley, Clay.)
- "Lat. & Long. of Baltimore," by A. Ellicott, ordered to be printed.

"Teeth of some extinct animal found in N. Y.," with description in letter from Livingston to Jefferson.

Fothergill's Work on the Preservation of shipwreeked mariners received. Thanks ordered.

Printer of Transactions Vol. V. to be furnished with: 1. Advertisement relative to choice of papers for publication; 2. Premiums offered with conditions, and the Magellanic premium; 3. Premium prizes on Peach trees; 4. List of Officers for 1801, and members "American & Foreign" elected 1st January, 1799, and donations; 5. "Circular advertisement respecting the Antiquities, changes &c of our Country, &c.," and 6. Table of contents.

Committee reported Ellicott's "Extraordinary Shooting of the Stars" and "Rule for Sun's Declination," worthy of publication. Adopted.

Committee reported Allison's "Pneumometer &c.," ingenious but not of sufficient utility to publish in ensuing Vol. of Transactions.

1801. July 17. (Peale; J. B. Smith, Barton, Vaughan, Allison, Wistar, Woodhouse.)

"Sur la Théorie des Vents," by Dupont de Nemours, referred for translation to Duponceau and Vaughan.

Thos. Prior's Meteorological Observations to be procured by Ellicott and Allison.

Committee on Turner's bond reported that the property had been advertised ten days, and sold June 26, "at public sale by John Connelly at the City Coffee House, & bought by R. Patterson for" \$150, and resold to H. Cadbury for \$520, amount necessary to cover the Principal of Bond (\$450), Interest for one year, three months, nine days (\$34.42), and "expenses of the execution of the Trust, advanced by the Treasurer and now retained by him (\$35.58) = \$520.—That Vaughan & Smith as Trustees had executed conveyance to Patterson, & Patterson to Cadbury."

Jarvis Roebuck's Experiments and Observations on the Bile, received, and thanks ordered.

L'Heritier's Stirpes Novæ loaned to Dr. Barton. Electrical Machine returned by Dr. Woodhouse.

1801. July 24. Special Meeting, called by two Vice-

Presidents. (Patterson; Governor McKean, Drs. Wistar, Woodhouse, Barton, James, Hewson, Cox, Parke, Duffield, Rush, Caldwell, Seybert, Currie, Shippen, Andrews, Collin; Messrs. Bleakeley, Vaughan, Leslie, Peale, Duponceau, Wheeler, J. R. Smith, Latrobe, Allison, = 26.)

Peale's letter being read, "requesting the loan of \$500 to enable him to complete the Skeleton of the Mammoth, of the greater part of the bones of which he is now in possession," it was

"Resolved, unanimously, that he be accommodated with the money, for four months, without interest, & that Messrs. Patterson & Duponceau, in conjunction with M^r. Vaughan the Treasurer, be a Committee to carry the above resolution into effect, & to take such security for the repayment of the money as to them may seem necessary."

1801. Aug. 21. (Wistar; Seybert, Cox, Vaughan, Allison.)

Committee reported the receipt of Mr. Peale's bond, power to enter up judgment, and mortgage on his house in Lombard street, and the payment of \$500 by the Treasurer.

Thermometrical Journal of Dr. Cutbush on board United States Frigate [] referred to Patterson and Vaughan.

"On the different Temperaments," by Dr. Schultz, referred to Dr. Barton.

1801. Sept. 10. (Patterson; Ellicott, Seybert, James, Vaughan.)

Sam. Pugh's (of Rouen) Observations on the weight of the Atmosphere, &c., in French; six copies sent by the author from Rouen, and referred to Mr. Patterson for analysis.

Committee reported that Cutbush's paper should be carefully preserved with other materials for ascertaining more correctly the use of the Thermometer in Navigation.

Dr. Franklin's library at N. G. Dufief's to be examined by Wistar, Ellicott and Vaughan, and other Philosophical works, &c., to be selected for purchase.

Form of letter of acknowledgment for donations to be reported by the Secretaries.

1801. Oct. 2. (Patterson; Vaughan, J. R. Smith, Peale, Allison, Drs. Hewson, Coxe.)

J. Auriol, Secretary Royal Institution Great Britain, acknowledged receipt of Transactions, 4 Vols.

Loan of Electrical machine to Dr. Caldwell "for a press-

ing Medical case," approved.

Committee reported Books purchased from Franklin's Library, \$107.62. [Here two pages occupied by a list of the books and prices: Com. S. R. S. Göttingen is Vols. I, II, III, IV, Novi. Com. IV which completes the Society's set from 1751 to 1753, \$4.75; Gravesend's Nat. Phil. Trans. Desagulier's 6th ed. 1747, 2 Vols. 4°, \$3.00; Desagulier's Exp. Phil. 2d ed. 1745, 2 Vols. 4°, \$3.00; Pingrè's Traité des Cometès, 2 Vols. 4°, \$2.00; De Luc, Atmosphere, 2 Vols. 4°, 1772, \$3.00; Shaw's Boyle, 3 Vols. 4°, 1738, \$3.00; Bailly's Hist. Ast. Anc. 4°, 1775, \$3.00; Courtanvaux Jour. 4°, 1768, \$1.00; Condamine's Jour. 4°, 1751, \$1.50; Amer. Lib. 4°, Lond. 1713, \$0.75; Mather's Ecc. Hist. N. Eng. 1698, Fol. \$2.00; Beccaria's Elett. Lett. 1758, Fol. \$1.00; Ross' Hist. World, 1652, Fol. \$1.00; Bion, Const. Math. Inst. Stone's Trans. 1758, Fol. \$2.00; Nat. Esp. Acad. del Cimento, 2d Ed. Florence, 1691, \$1.00; Berthelot's Mechanique Applique, 2 Vols. in I, 4°, 120 plates, 1782, \$3.00; Cavallo on Air, 4°, 1781, \$2.50; Hutton on Rain, 4°, 1784, \$0.37\frac{1}{2}; Whitehurst's Theory of the Earth, 4°, 1778, \$1.00; Bancroft's Guiana, 8°, 1759, \$1.00; Mem. Ac. R. Stockholm, trad. Paris, 4°, 1772, \$1.50; Trans. Soc. Priv. Taurinensis, Vols. I to V (completing the A. P. S. set Turin from 1759 to 1791) \$7.25; De Bononiensi Sc. et Art, Inst. at Ac. Comm. Bologna, 4°, Vols. I to IV, \$6.00; Birch's Hist. R. S. 4°, 1756, 4 Vols. \$6.00; Trans. R. S. Abridgements, 9 Vols. 1700 to 1744; 36 Vols. 1744 to 1789 (wanting Vol. 55 and Vol. 78 II); Index, 1 Vol. \$46.00; Born's Travels, translated by Raspé, Lond. 8°, 1777, \$1.00.]

Action of Committee approved, and powers to purchase continued.

Donations: Nova Acta A. S. I. Petropol. Vol. XII, in sheets; ordered bound, and thanks returned.

- "M^{r.} Peale asked the privilege to form another chamber by running a partition across the Entry on the first floor." Consideration postponed.
- "Mr Peale gave a verbal account of his late Expedition to the State of New York in search of the Large Bones &c. &c., which he was requested to reduce to writing."
- 1801. Oct. 16. (Latrobe; Leslie, Peale, Clay, Wheeler, Vaughan; Drs. James, Coxe, Barton.)

Seeds of Disette (Betterave Champêtre) from D. Valentine, with De Commerell's Memoire on its culture and use, Paris, 1798. Thanks ordered.

D. Valentine sent also through Dr. Barton, a pamphlet letter from the Comité Medical pour l'Inoculation, stating progress and soliciting the creation of similar establishments.

Committee reported a further purchase of Franklin's Books, \$91.50, and were authorized to buy others not exceeding \$20.00. [Two pages filled with titles and prices of the books, among which are 4 Vols. 4° Hist. et Mem. Soc. R. de Medicine, 1777 to 1784, \$6.00; Rozier's obs. sur la Physique &c, 23 semi-annual Vols. completing the Soc.'s set from Vol. I to Vol. XXV (wanting VI) \$28.75; Trans. R. S. London, 19 Vols. (V-XI, XIII-XXX, wanting XII) Indexes (Vol. XI from commencement to 1677, Vol. XVII. 1677 to 1693) \$19.00; Bellidor's Arch. Hydr. 4 Vols. 4°. and Sciences des Ing. Paris, 1739, 4°, \$20.00. Also, De Saussure's Essays, 1783; Bezout's Theorie, 1779; Jones' Essay, 1772; Chabert's Voyage, 1753; De Bougainville's Voyage, 1771; Lavoisier's Opuscule's (Vol. I only), 1774; Essai, Kirwan, 8°, 1788; Papin's Digester, 1681; Phipp's Voyage, 1774; Franklin's Exp. on Electricity, 3d Ed. 4°,

Lond. 1774; Electricity, Collection of 13 pamphlets; Feuillée's Obs. Phys. (2 Vols. in 1), Paris, 1714; Souciet's Obs. Math. &c., 1729; De la Lande's Ephem. Vol. VII, 1774; Connoissance des Temps, 13 years (1766–1789); Neale's Hist. N. Eng., 2 Vols. 8°, Lond. 1720; Hist. of Air, &c., 2 Vols. 8°, Lond. 1749.] Ordered paid.

1801. Nov. 6. (Wistar; Drs. Barton, Hewson, Newnam, Coxe, Seybert, Messrs. Peale, Vaughan, Leslie, Clay.)

Dupont de Nemours' Theory of the Winds, translated, was read and referred to Clay and Patterson.

Form of Letter to Correspondents reported; 500 copies ordered. [The form is very simple: "The A. P. S. &c. having received from you I am directed by the Society to transmit their thanks for your assistance in thus

advancing the design of their institution."]

More books from Franklin's Library reported purchased, to the extent of \$20. [Le Roi's Prem. Mem. sur la marine des Anciens, 1770; and Les Navire's, 1783; Lelyvild's Mem. sur l'usage des Huiles, 1775; Faujas' Œuvres de Palissy, 1774; Mem. inst. sur la manure de bonserver divers objects d'H. N. 8°; Mem. Acad. Dijon, Vols. I, II, 1769, 1774; Mem. Soc. Œcon. de Berne, Vols. I, II, III, IV, 1762-1765; Erreurs populaires, 1783; Letter from Wm. Penn to the Com. of Free Soc. of Traders, 1683. (All the above for \$8.00.) Vocab. Acc. della Crusca. Fo. 1686, \$1.00; Trans. A. P. 8. 12 Vols. for \$12. (Three of Vol. II and 9 of Vol. I to complete sets.)]

Committee to settle Mr. Aitkin's accounts vested with "discretionary powers."

Dr. Hewson to call on Mrs. Pryor, concerning the Meteorological Observations of the late Mr. Pryor.

Donations: Pamphlet supplement to Barton's Memoir on the fascinating faculty described to the rattlesnake. Smith's Essay on Nitrous fumigation; Park's Travels; Robertson's Hist. of America, Phil. 1799; Browne's Essay on the Nat. Equality of men, Phil. 1793; The Rural Socrates; Smeatou's Exper. Enquiry, 1794; Chalmer's Estimates, 1782. Thanks voted to Barton, Dobson, Humphreys, Ormerod, Vaughan.

Peale's proposition referred to a special meeting.

1801. Nov. 10. Special Meeting. (Wistar; Du Ponceau, J. B. Smith, Vaughan, Leslie, Bleakley [sic], J. Smith [sic], Drs. Barton, Collin, Coxe, Hewson, Currie, Woodhouse, Magaw, Seybert.)

Agreed that Mr. Peale might erect his partition, provided the expense did not exceed \$65; to be advanced by Mr. Peale, and repaid on the last settlement for rent at the expiration of his lease. Committee to superintend, Vaughan and Leslie.

1801. Nov. 20. (Vaughan; Leslie, Hewson, Seybert.)

Dr. Hewson reported that Mrs. Pryor would not permit him to take the Meteorological Observations away to copy; was continued, and requested to devise some way of obtaining a copy.

Rutherford's Nat. Phil., 2 Vols. 4°, was deposited in the Library. Volney's Lectures and Chaptal's Elements presented by I. Conrad & Co.

Mr. Rich. Hill Morris gave \$10, in building materials, towards Peale's alterations. Thanks voted.

Mr. R. Leslie offered to put in complete order the Society's Time-piece, if he may use it until May next; and afterwards to keep it in order. Postponed.

1801. Dec. 4. (Patterson; Vaughan, Leslie, Peale, Legaux, Latrobe, Woodhouse, Currie, Coxe, Hewson, Seybert, Wistar.)

Donations: Lettsom on Cow Pox; Tatham's Pol. Econ. of Inland Nav. 1799; Sir W. Jones' Asiatic Researches, 6

Vols. 1801, and Poesios Asiat. Com. 8°, 1774, presented by S. F. Bradford. Thanks ordered to Dr. Lettsom, Mr. Leslie and Saml. F. Bradford.

Committee on Papers for Transactions Vol. VI; Coxe and Seybert.

Leslie's proposal accepted. Legeaux, Patterson and Leslie to report on the best method and expense of furnishing the city with true time.

1801. Dec. 18. (Patterson; Woodhouse, Currie, James, Coxe, Collin, Wistar, Vaughan, Leslie, J. B. Smith, W. Barton.)

Committee on papers reported partially; continued.

Committee for fixing a meridian, and furnishing true time to the city, reported that it would not cost more than \$50; report adopted; Patterson, Leslie, Latrobe, a Committee to carry it into effect.

No papers for Magellanic Premium. Secretaries to advertise terms.

Dr. Collin had sent a copy of Transactions American Philosophical Society, Vol. IV, to each of the Societies at Stockholm and Upsal, by Ship *Verlsborgare*; "ordered that they be replaced by the Society, & in case those sent should be lost, Dr. Collin renders himself responsible to replace them."

"Monthly recapitulation of Met. Obs." at the Natches, for the year 1800, with remarks calculated to give some idea of the climate there," by Wm. Dunbar, "of the Natches," in a letter from Jefferson; referred to Patterson and Woodhouse.

Patterson's and Ellicott's Observation on the Lunar Eclipse of September, 1801; referred to Clay and Latrobe.

1802. Jan. 1. Between 2 and 5 p. m. (Parke, Woodhouse, Coxe, Seybert, Collin, Vaughan, Patterson, J. B. Smith, Leslie, Williams, Peale, Hewson.)

Peale, Vaughan, Collin, Judges; Patterson, Parke, Secretaries.

ELECTION OF OFFICERS.

President—Thos. Jefferson.

Vice-Presidents—Patterson, Wistar, B. S. Barton.

Secretaries-Clay, Coxe, James, Seybert.

Councillors—Woodhouse, Blakely [sic], Latrobe, Duffield.

Curators-Peale, J. R. Smith, Leslie.

Treasurer-Vaughan.

1802. Jan. 15. (Patterson; Latrobe, J. B. Smith, Peale, Leslie; Drs. Parke, Duffield, Woodhouse, Bollman, James, Hewson, Collin, Barton, Coxe, Seybert.)

Certificate of Election, read and approved.

"Longitude of Lancaster," by Ellicott, referred to Patterson and Latrobe.

"Epreuves de Canons," by L. Tousard; Dr. Bollman requested to translate the memoir.

"Constitution of Logarithms," by Mr. Garnett, referred to Patterson and Ellicott.

Donations: Barnwell's Phys. Investigations; Collections for an Essay towards a Mat. Med. U. S., Part I. Concise View of the facts concerning Vaccine. Thanks ordered.

Committee of enquiry on Vol. of Transactions in press, Woodhouse and James.

Election of five new members: Thos. Cooper, Northumberland; Jarvis Roebuck, M.D., St. Croix; Wm. Barnwell, M.D., Philadelphia; Wm. Roxburgh, M.D., Calcutta; Chev. Don Carlos Martinez de Yrujo, Min. from Court of Spain.

1802. Feb'y 5. (Patterson; Barton, Wistar, J. B. Smith, Latrobe.)

Committee reported Ellicott's paper on the Longitude of Lancaster ought to be published.





1802. Feb'y 19. (J. B. Smith, Patterson, Woodhouse, Peale.)

Mr. C. W. Peale's Museum having so much increased, and "from the measures he had taken will probably become so much more numerous, as to render the advantageous display of them in the Hall of the Society no longer practicable;"

"Resolved, That this Society, regretting that the small extent of their rooms has rendered the grant of the Senate necessary, cordially recommend to the house of Representatives to add their approbation to the vote of the Senate, as they consider, that the museum may be the foundation of an institution highly serviceable to Science & honorable to the State in which it has arisen."

"Resolved That this Resolution be signed by the V. P. & a copy furnished to M^r . Peale."

1802. March 5. (Patterson; Latrobe, Leslie, Peale, Brown, Hewson, Coxe.)

Mr. Rembrandt Peale's request to be permitted to make casts or copies of the Bones of the Magalonix, was agreed to.

1802. March 19. (Barton; Caldwell, Brown, Roebuck, Barnwell, Coxe, Peale, Vaughan, Legaux, Leslie, Patterson.)

Donations: Adam's Defence of the American Constitutions, with a letter from J. Adams (his son); Flora Batava, Nos. 1, 2, 3, with letter from Minister Pol. Econ. Batav. Republick, promising continuation and asking exchanges. Thanks ordered; consideration of exchange postponed. Printed bill of Mortality for Portsmouth, New Hampshire.

On the Occultation of the three stars in the Pleiades, in a letter from A. Ellicott, Lancaster, February 13, referred to Patterson.

Rembrandt Peale's request to be permitted to carry sundry bones to Europe; postponed.

"On Ventilating Ships" (for the premium) signed "Jolly Tar" ("vide Minutes 19 Dec. 1800").

Acknowledgment of Transactions I, II, III, IV from Mas-PROC. AMER. PHILOS. 80C. I. XXI. PRINTED FEBRUARY 23, 1884. sachusetts Historical Society, and envoy letter of exchange ordered.

Jefferson acknowledges his election.

Transactions Vols. I and III ordered for A. A. and S., Boston, with Vol. IV, ordered July 19, 1799.

Mr. Leslie requested to procure "Press to take the impression of the Seal of the Society."

Committee on Transactions V, in the hands of Mr. Dobson (January 15th); Vaughan substituted for Woodhouse.

Committee on Transactions VI (December 18th); Patterson added; Committees holding papers to be notified to report.

1802. April 2. (Patterson; Caldwell, Duffield, Barton, Roebuck, Hewson, Seybert, Peale, Vaughan, Williams.)

Committee on Transactions V, reported that the plates would be ready in May, and Mr. Dobson able to go on with the work.

Ellicott's "Occultation" reported worthy of publication; adopted.

Schultz's "Temperaments" reported unworthy of publication; adopted.

Donations: Russell's Modern and Ancient Europe, 7 Vols.; Ruiz's Spanish Treatise on the Peruvian Bark tree, and Unanne's Spanish Dissertation on the Cocoa plant. Thanks ordered to W. Y. Birch, Abr. Small and Ross Campbell.

A plan of Mussel Shoals, Tennessee. Mr. Vaughan appointed to obtain from Dr. Sam. Brown, of Lexington, some further account of it for publication.

Set of Transactions ordered sent to Haarlem Society.

R. Peale's request for bones postponed to some future period.

Indian Idol (presented by Jefferson) loaned to Dr. Barton (on receipt and promise to return) to make a drawing of the same.**

a Returned Dec. 8, 1802.

1802. April 16. Patterson; Vaughan, Leslie, Peale, Wistar, Coxe, Hewson, Barton, Collin, Barnwell, Seybert, Blackwell.)

Map of St. Bartholomew's from Dr. Fahlberg; referred to Mr. Vaughan.

Resolutions of New York Agricultural Society referred to Wistar and Vaughan.

"On Ventilating Ships by manual labor;" no signature; referred to Committee on Premium.

Dunbar's Meteorological Observations, 1800, and Remarks for 1801 reported worthy of publication; accepted.

"M^{r.} Leslie was requested to repair such parts of the Time Piece . . . as may be necessary to put it in good order."

"Plan of the City of Washington, presented by the late Genl. Washington to the Earl of Buchan & by him bequeathed to the A. P. S. was received. Thanks to be returned."

Donation: Parkinson's Chemical Pocket Book, from Jas. Humphreys. Thanks ordered.

1802. May 7. (Magaw; Vaughan, J. B. Smith, Leslie, Latrobe, Peale, Patterson, Barton, James, Coxe, Hewson, Seybert.)

"On the Hybernation of Swallows," by the late Col. Antes; referred to Dr. Coxe.

"On Wildenow's 'Bartonia,'" Dr. Barton; referred to Latrobe and Hamilton.

Colored drawings of the Rattlesnake, exhibited by Dr. Barton, who intends "to draw up a description of the same."

Committee on Resolutions of the New York Agricultural Society continued.

Communication concerning Longitude from D. Griffith, referred to Patterson and Latrobe.

Donations: Trans. Hist. S. Mass. 7 Vols. bound in 5, and Catalogue of Books; Cat. Cambridge Library, Mass. from

Francis Dana; Herbelot's Oriental Dict. 1776, and Supplement, 1780; Aikin's Desc. Manchester, 4°, 1795; Du Halde's China, 2 Vols. Fol. 1738, 1741; Jacob's Students Chem. Pocket Companion. Thanks ordered.

Peale's request to be permitted to leave part of his Museum in the American Philosophical Society Hall, while the rest went to the State House, was agreed to.

Treasurer reported he had bought Smith's Invention, and Barry's Maniere de bonifier les mauvaises eaux abord les Vaisseaux. Approved.

Committee to Collect and arrange papers reported worthy of publication since the arrangement of Vol. V; to get reports from outstanding Committees; and to treat with Booksellers, and "report conditional contracts;" Patterson, Latrobe, J. B. Smith, Hewson.

1802. May 21. (Patterson; Vaughan, Leslie, Peale, Seybert, J. B. Smith.)

Vol. V would be ready for delivery next week.

Donations: Repertory of the Arts, 12 Vols. to 1800, from Mr. Robert Leslie; Mackenzie's Voyages, 2 Vols. 8°, Rhiladelphia, from the publisher, Jno. Morgan. Thanks ordered.

Treasurer to reclaim Maseres Scriptores Logarithmici, Vols I, II, wrongly delivered to the University; the Baron has sent to the American Philosophical Society, Vol. III, "in continuation."

Seeds of the Sago Tree, of the eatable Canarie Tree, of the Oil Canarie Tree, were deposited in the cabinet; and some were sent to Wm. Hamilton at the Woodlands, Philadelphia, and to General Pinkney, South Carolina, for cultivation.

A motion was made to permit members to take out books, on obligation to return them at the next meeting, under penalty of \$1.00 for every fortnightly delay, and double the value of the book (or set) if lost. Consideration postponed.

1802. June 18. (Wistar; Peale, Vaughan, Patterson, Leslie, Wheeler, Coxe, Seybert.)

Cranium of a Bison? found by Uriah Hardesty in the bed of a creek, six miles below Licking creek mouth, two or three miles from the Ohio river, and twelve or fourteen north of Big bone; presented, with letter from Mr. John Brown, of Columbia, Boon county, Kentucky, on condition that it remain in the same room with the Mammoth.

Exchange: Trans. Bat. S. First Series complete and Vols. I, II, 2d Ser. with letter; thanks ordered, and Trans. A. P. S. Vol. V. (Order covers transmission of Vol. V. to all other corresponding Societies, of list of June 19, 1799.)

Committee on Vol. VI, requested to report soon. Committee on Griffith's "Longitude" discharged.

Col. Ante's "Hybernation of Swallows" reported worthy of publication.

Donations: Forsyth's Fruit Trees; Proud's Hist. Penna., 2 Vols., 8°. Thanks ordered to Jno. Morgan and Robt. Proud.

Rembrandt Peale purposing to embark for Europe to exhibit the Mammoth lately found in New York, asked permission to take a cast of the fragment of skull and "core of the left horn of some unknown animal of enormous size, lately found in the bed of a creek near the Ohio" Granted.

Library:

"Resolved that any Resident Member may, on application to the Society, but not otherwise, be allowed to take out any Book on giving an obligation to return the same uninjured in one month, subject to a fine of half a dollar for every stated meeting after that term; or, if not returned or replaced in six months, to a penalty of double the value of the book; or if part of a set, to double the value of the whole set & all the money appropriated to the purchase of books"

"Resolved, That the Treasurer be requested to prepare & have printed 500 copies of a Catalogue of"

"Resolved, That the Curators be requested to put the Lens in good order & have the Globes varnished with Spt. Varnish & properly covered."

"Mr. Vaughan is requested to procure a suitable book with blank obligations"

1802. July 16. (McKean; De Yrujo, De Ferrer, Coxe, Caldwell, Seybert, Patterson, Clay, Leslie, J. B. Smith, J. R. Smith, Peale, Vaughan.)

Description and model of a Solar Compass, by Jas. Hall, of North Carolina, with "a request that if found likely to be useful, the Patent Right might remain vested in him;" referred to Clay and Ferrer.

An answer to a request for information from the Batavian Society as to improvements in Steam engines in America, to be drafted by Latrobe, Patterson and Leslie, after consulting the Vol. of Proc. Bat. Soc. which treats of Steam engines.

Election of nine new members: P. B. Olsen, Minister and Consul General to United States; Letombe, late Consul General from French Republic; W. S. Jacobs, M.D., Philadelphia; Ph. R. Roume, Member French National Institute; Drs. James Mease; Philip Syng Physick; and John Church, of Philadelphia; Chev. Dr. Valentine de Foronda, Consul General of His Catholic Majesty to United States America; John Garnett, of Brunswick, New Jersey.

1802. Aug. 20. (Peale, Mease, Vaughan.)

Letter from Bleeker Olson [sic] "complimentary on his election and correcting his titles."

Donations: Grégoire's Apologie de Las Casas, with a letter from M. Giraud, Boston, July 2. Priestley's Exp. and Observations on Air, Vol. III, 1786; and his Comparison of the Institutions of Moses with those of the Hindoos, Northd. 8°, 1799.

Blank Obligation Book, \$5.37½, reported by Mr. Vaughan; with his purchase of Michaux's Hist. des Chenes del'Amerique, Fol. with plates, Paris, 1801, proof impressions, from the author's son, for \$10.

"On account of the Sickness prevalent in Philadelphia," no meeting was held in September, nor on the first of October."

1802. Sept. 17. No meeting.*

[.] Yellow fever.

1802. Oct. 1. No meeting.

1802. Oct. 15. (Seybert, Jacobs, Mease, Coxe, Vaughan, Peale.)

Nou. Mem. Ac. R. S. and B. L. Berlin, IV, with acknowledgments of Transactions American Philosophical Society, Vols. I, II, III, IV, and desire for further correspondence. Freight, &c., \$3.26. Ordered to be bound.

Donations: J. R. Coxe on Vaccination; Ackerman's new water-proof process; Baron de Hubsch's Des Machines et Remèdes, 1780; His Relation Bib. publique, 1792; Hist. . . . Verdienste des von Hubsch, 1799; his Syn. Tabellen, 1797; and his Patriolische Vorschläge, 1776.

1802. Nov. 5. (Patterson; Vaughan, Peale, Legeaux, Wistar, Seybert, Barton, Shippen, Mease, Jacobs, Coxe, Woodhouse, Barnwell, Caldwell, James.)

"On a new mode of observing the Eclipses of Jupiter's Satellites &c.," by M. C. Groves, in a letter from Jefferson; referred to Patterson.

Letter from Dr. Barton to Mr. la Cepede [sic] read.

Letter from Baron de Hupsch, translated, read.

Acknowledgments of receipt of four Vols. Transactions American Philosophical Society from Royal and Antiquarian Societies, Edinburgh.

Letter from Jno. Brand, Secretary S. Antiq., London, with 12 Vols. of the Archæologia.

Letter from John Dalton, Secretary L. & P. S., Manchester, with Transactions, Vols. IV, V, and Dalton's Meteorological Observations; acknowledging Transactions American Philosophical Society, IV, V, Mutual Completion of both sets to be corresponded for.

Donation: W. Barton's Dissertation on Freedom of Navigation.

Dr. Coxe to reply to Baron de Hupsch.

1802. Nov. 18* [sic]. (Wistar; J. B. Smith, Vaughan, Peale, Patterson, Leslie, Barton, Seybert, Mease, Coxe, Church, Jacobs, Shippen, Barnwell, Woodhouse, James.)

Acknowledgment of Vol. V, from Secretary Royal Institute, Great Britain.

Improved Electrifying Machine described in a letter from Weeden and Jones.

First attempt to describe our native Vines, by W. Bartram, of Kingsess; referred to Barton and Mease.

Specification of Cassia Chamæcrista from the Eastern Shore of Virginia (described in Transactions American Philosophical Society, III), presented by Dr. Wistar.

"Mr. Patterson reported on the Paper of Mr. Grove."

Nouv. Mem. de l'Acad. R. S. B. L., for 1786, 1788-'9, 1790, i, 1797, reported received by Mr. Vaughan.

Hall's Solar Compass: Committee reported "that whatever ingenuity may be shown in the invention, the Com. cannot consider the communication worthy of a place in the Transactions."

Specimen "of Rock Salt, from the Missouri, where it is in large quantities on the surface of the Earth," presented to Dr. Barton by Dr. Watkins. Also specimens calcined earth in which were embedded marine shells

Donations: Rittenhouse's Oration, 1775.

Committee to inquire if T. P. Smith had bequeathed his Papers and Minerals to the Society, with power to act: J. R. Smith and Vaughan.

1802. Dec. 3. (Patterson; Vaughan, J. B. Smith, Peale, Leslie; Wistar, Barton, Seybert, Woodhouse, Mease, Hewson, Barnwell, Caldwell, Currie, Jacobs, James.)

Committee on Smith's bequest continued.

Vaughan described the Premiums offered by the Ec. S. Valentia, 1802.

Caldwell reported the return of the Electrical Machine.

 $^{^{\}circ}$ Qy. Nov. 19, as previous meeting had been Nov. 5 and subsequent one was held Dec. 3.

Bartram's Paper on Native Vines reported well worthy of

publication in the Transactions.

"Dr. Barton informed the Society that Mr. Jos. Sansom had brought from Paris a Bust of Dr. Franklin which he was inclined to present to the Society if they thought proper to give it a place in their Collection. The Secretary is desired to inform Mr. Sansom that his intended Donation will be thankfully received."

Donations: Laws of College of New Jersey, 1802; Medal struck by Congress in Commemoration of the surrender of Burgoyne, from Dr. Barton; Treasurer to procure a box to keep this and other medals of the Society; Box of Shells from J. G. Armenteros, Manilla, December 22, 1801, with letter to Jefferson; Barton, Seybert, Woodhouse and Peale, to arrange, number, catalogue and place the shells.

Figure of Indian Woman* returned by Dr. Barton.

First Nos. of Flor. Bat. loaned to Dr. Barton for one month.

Electrical Machine loaned to Dr. Woodhouse.

Committee to report the best tests for ascertaining the purity of the atmosphere: Seybert and Woodhouse.

1802. Dec. 17. (Patterson; Magaw, Vaughan, Peale, Leslie, Barton, Wistar, Seybert, Woodhouse, Church, Hewson, Mease, Barnhill, Jacobs, James.)

Ventilating ships at sea; "Simplicity" offered for the Premium.

Committee on premium papers offered before April, 1802; Patterson, Mease, Vaughan.

Committee on papers for next Vol. granted more time.

Committee on printing Catalogue, continued.

Mr. Sansom would send the bust of Franklin to the care of Mr. Peale.

Specimen of Ware formed from Lancaster County clay, presented.

^{*} Borrowed April 2, 1802.

No papers for Magellanic Premium; advertisement ordered.

Auditing Committee: Wistar and Hewson.

Public notice of Annual Election ordered.

New Rat with cheek-pouches from the Indian countries of the Northwest, killed in 1798; drawing exhibited by Dr. Barton. Also, specimens of *Tinea granella*, an insect which has, this year, in many places, proved destructive to the *grain* of wheat.

1803. Jan'y 7. Between 2 and 5 p. m. (Patterson, Collin, C. W. Peale, Williams, J. B. Smith, Vaughan, Barton, Woodhouse, Mease, Coxe, Caldwell, Jacobs, Duffield, Church, James.)

Williams, Peale, Collin, Judges; Vaughan, Woodhouse, Secretaries.

ELECTION OF OFFICERS.

President—Thos. Jefferson.

Vice-Presidents-Patterson, Wistar, Barton.

Secretaries-Seybert, I. R. Coxe, James, Hewson.

Councillors-Williams, Ellicott, Magaw, Collin.

Councillor for two years-Tench Coxe.

Curators—C. W. Peale, Rob. Leslie, W. S. Jacobs.

Treasurer-Vaughan.

1803. Jan'y 21. (Patterson; Duponceau, Peale, J. B. Smith, Williams, Vaughan, Latrobe, Hewson, Woodhouse, Collin, Barnwell, James, Mease, Barton, Seybert.

On the Submersion of Swallows, by R. Dunbar, of Winchester, Virginia, read and referred to Mr. Williams.

Astronomical Observations by Ellicott; observations on the Natural History of the Illinois on the Mississippi, in a letter from Jno. Watkins to Dr. Barton, was read.

Demonstration of the Theorem of finding the Sum of the powers of the sines by Mr. Rittenhouse in Transactions American Philosophical Society, III, No. 20, by N. Bowditch, of Salem, Massachusetts, was read.

On the utility of the oxygenated muriatic acid gas in recovering animals from asphyxia, in a letter from E. J. Dupont de Nemours, was read; Dr. Woodhouse was requested to repeat the experiments.

A calculous concretion found in the duodenum of a horse, in a letter from Hugh G. Shaw to J. B. Smith, was referred to Seybert and Latrobe. Calculus, presented to the Society by Mr. B. Du Plessis, of Philadelphia.

On the Sphea carulea and Pennsylvanica by Latrobe; referred to Dr. Barton.

Committee on papers for the Premium for Ventilating Ship's without manual labor, reported; report recommitted.

Auditing Committee reported, on hand December 31, £196 ·· 2 ·· 4, funds, of the Society; £338 ·· 4 ·· 7, and a certificate, for 33 shares of Stock, Insurance Company, North America, belonging to the Magellanic Fund; £8 ·· 9 ·· 3, and a certificate for \$200 stock of the United States 8 per cent loan belonging to the Fund for Keeping in repair the Rittenhouse Observatory.

Donations: T. D. Price's Inaugural Dissertation on Magnolia glauca; and J. Oswald's Inaugural Dissertation on Suspended Animal Life.

"An elegant Bust of the late D^{r.} B. Franklin was presented to the Society by M^{r.} Joseph Sansom of Philadelphia. Thanks ordered to be returned."

Set of Transactions ordered to be forwarded to the Dublin Society, and the Sociedad Aragonesa in Zaragoza.

Secretaries of S. Antiq., London, and Royal Academy, Berlin, acknowledged receipt of Vol. V.

Donations: Com. and Novi. Com. R. S. Göttingen, 18 Vols. 1775–1800; R. Peale's Account of the Skeleton of the Mammoth, London, 1802; Kirwan's Essay on Manures, 1801; Culley's Obs. on Live Stock, 1789; Hutchinson's Hist. Mass., 1795; Ramsay's Hist. Revol. S. C. 2 Vols. 8°, 1785; Seward's Topography: Hibernica, 4°, 1795; Ramsay's History American Revolution, 2 Vols, 1789; Linn's Discourse on Ewing, 1802.

Letter from the National Institute of France, promising, as successors of the French Academy, to resume correspondence, "signed by the Prest. & 2 Secs." Another letter envoyed Vol. III; said Vols. I, II had been sent, and Vol. IV (in press) should be sent.

Donations from De Foronda [sic]: 7 Vols. (Cartas, Collection, Lecciones, Cartas, Memorias, Reflexiones, Traduction)

works or translations into Spanish by the donor.

Publication:

"Resolved that the A. P. S. will in future publish their Trans. in single numbers," Ordered to lie over for future consideration.

Books to be purchased ordered to lie over.

"Curators to report measures to render our room more comfortable."

Election of two new members: Robert Hare, Jr., of Philadelphia; Ben. Count of Rumford, of Great Britain.

1803. Feb'y 4. (Barton; Williams, Leslie, J. B. Smith, Hare, Vaughan, Peale, Hewson, Jacobs, Woodhouse, Church, Caldwell, Seybert.)

Tousard's [sic] communication, originally in French, partly read.

Jefferson acknowledges his re-election.

Room.—Curators' report ordered to lie over; they were requested to purchase a Scotch carpet. Hare, Peale and Coxe to report the most convenient and useful kind of fireplace Curators to procure a baize curtain for the door.

Dunbar's paper on Swallows reported favorably. Adopted. Books to be purchased: Annales de Chimie from M. Caritat, New York; Journal de l'Ecole des Mines from its commencement; Nicholson's Journal, 8°; Tilloch's Philosophical Magazine from 1803 in numbers, and from its commencement in Vols.; Monthly Magazine from 1803; Journal de Physique from 1803; Bergmännische Journal from its commencement; Mercurio Peruviano, Lima, from its commencement.

Publications: Vaughan, Patterson and Woodhouse "to report the best mode of conducting our future publications."

Committee on Minerals: Woodhouse, Church, Jacobs, Barton, Coxe, Hewson, Hare, to examine future donations.

President, Vice-Presidents and Secretaries to sign reply to French National Institute.

1803. Feb'y 18. (Barton; Hewson, Mease, Jacobs, Caldwell, Priestley, Barnwell, James, Seybert, Peale, Leslie, Hare, J. B. Smith, Williams, Latrobe, Vaughan, Patterson).

New vegetable Muscipula, memorandum by Dr. Barton, referred to Mr. Latrobe.

Toussard's [sic], paper on Proving Cannon, referred to Latrobe.

"Account of the descendants of Pocahontas, daughter of Powhatan, king or chief of the tribe of Powhatan, who inhabited the country about the falls of James River, Va." by Mr. Latrobe, read.

Ellicott's Astronomical Observations reported favorably. Adopted.

Report on papers on Ventilating Ships. Adopted.,

Donations: C. W. Peale's Epistles on Health; Clarke's Seamen's Desiderata. Thanks ordered.

Casts of Franklin:

- "Resolved That in consideration of the Society's being in possession of two Casts of a Bust of Doctr. Franklin from originals by the celebrated Houdon, one of these casts, with the consent of the Donor, Jonathan Williams, be sent in the name of this Society to the Academy of Arts & Sciences in Boston with a copy of his letter to the Society."
- "A Jerboa taken up in the Torpid State by Mr. Bartram near this city," exhibited by Dr. Barton.
- 1803. Feb'y 28. (Patterson; J. R. Smith, Duponceau, Coxe, Latrobe, Peale, J. B. Smith, Vaughan; Barton, Woodhouse, Church, Seybert, Hewson, Jacobs, Duffield, Magaw Coxe.)

"Resolved, That this Society will dine together on Saturday next, and that J. R. Smith, Wistar, Williams, Hewson, Vaughan, be a committee to make the necessary arrangements for that purpose & to request Dr. Joseph Priestley's company, informing him that the Society are induced to make the request from their high respect for his Philos. Labors & discoveries, & to enjoy the more particular pleasure of a Social meeting—The dinner to be prepard [sic] at the City Tavern or Farmer's Hotel."

[A copy of the invitation follows.]

1803. March 4. (Patterson; Hewson, Priestley, Mease, Barton, Caldwell, Seybert, Coxe, Wistar, Williams, Cooper, Vaughan, Peale, Leslie, Clay, J. B. Smith, J. R. Smith.)

Dr. Priestley's acceptance was read.

Experiments performed by Bishop Madison on the Bath mineral waters of Virginia, were read, but were not to be considered a communication to the Society.

Watkin's Letter reported worthy of publication. Adopted. Donations: Lacepede's Discourse; Ramsay's Charlestown Medical Register for 1802; Spalding's Bills of Mortality for 1802. Thanks ordered to Barton and Vaughan for same.

Experiments on the Temperature of the Water in the boiler of the Steam Engine near Schuylkill, taken at different times, by Mr. Latrobe, was read and referred to Williams and Woodhouse.

Barton's memorandum on Muscipula reported worthy of publication. Adopted.

Books to be bought: Journal Phylomatique and Journal Polytechnique from their commencement.

R.S. London acknowledges Transactions American Philosophical Society, Vols. III, IV, V.

Ducalde's communication to Jefferson, dated Opelousas, April 24, 1802, in French, referred to Mr. Vaughan for translation.

An improved mode of refining sugar, by J. Williams, read; referred to Seybert, Woodhouse, Vaughan; Williams to furnish an account of his experiments.

On Paper made from refuse Cotton and dyed red, in a letter from Dr. Schultz, referred to Dr. Barton.

Woodhouse delivered the forty-two Vols. Annales de Chimie and 1 Vol. Index to Vols. I-XXX (Vol. XL, l'an.10 = 1802.)

1803. March 18. (Patterson; Hare, Vaughan, Peale, J. B. Smith, Mease, Collin, Jacobs, Seybert, Wistar.)

Translation of Ducalde's paper referred to Wistar and Barton.

Donations: Clavening on Chiminies [sic]; Prosperin's De Cognitione probabili.

Treasurer reported that he had ordered the Journals.

Books purchased by Mr. Vaughan at the Franklin Library sale, taken by the Society at their prices. [List follows the evening's minutes, and occupies 3½ pages, closely written.] Total cost \$89.15.

Burnt Pyrites as manure, and Clays and Spar used at Sêvres, near Paris, presented by R. R. Livingston with a letter to Jefferson. Also, Exposition publique des Prod. de l'Ind. Franc. An. 10.

Library:

"Resolved that the members may take out books at other times than at the meetings provided it should be perfectly convenient to the Librarian and receipt be taken, and considered as delivered at the meeting preceeding '

Librarian:

'' Resolved that $M^r.$ Vaughan act as Librarian untill it shall be otherwise determined.''

[Here follows the list of: A. MSS.; B. Folios; C. Quartos; D. Octavos; E. Duodecimos; from Franklin's Library.]

A. "A Lot of Manuscripts, viz., 3 large Vols. in folio, \$13-1. Journal from London to St. Petersburg, 1739; 2. Journal of Campaigns, 1689 to 1697; 3. Journal of Campaigns in Hongrie, 1737-8-9; 4. Imports and Exports of Great Britain, 1698 to 1762; 5. N. E. Admiralty proceedings during the Revolution; 6. Essai de Physique; 7. Journal of G. Welsh's voyage to the W. Indies, 1671;

8. Nouveau Systeme du Monde; B. in folio, \$8.90; C. in 4°, \$33.55; D. in 8°, \$12.45; 8°, continued; E. in 12mo., \$26.25.

1803. April 1. (Patterson; Vaughan, Legaux, Peale, Leslie, Magaw, Mease, Church, Barton, Barnwell, Jacobs, Seybert, Hewson.)

Meteorical Observations at Nazareth in 1793, referred to Legaux.

On the Goitre, in a letter from Rev. Dr. Black to Dr. Barton.

Account of newly discovered S. Pacific Islands, by Mr. Thomas of the ship *Ganges*, referred to Patterson.

Donations: Barton's Elements of Botany; Mercurio Peruviano, Vols. I, II; Hist. Prov. Philippinas, 2 Vols. Fol.; Manilla, 1742, 1749, presented by Robt. Bridges; Plaster medallions of Salvator noster, Priestley, Locke, Socrates, Plato, Newton, Franklin, Cook, Penn, Brutus, Cicero, Ovid, Achilles, Homer, Voltaire. Thanks ordered to Mr. Vaughan. [On the margin, "Not to be printed in List of Donations."]

Nominees for Annual Oration to be balloted for at next meeting: Woodhouse, Barton, Collin, Wistar, Patterson, Mease, Tench Coxe.

1803. April 15. (Barton; Collin, Seybert, Mease, Jacobs, Hewson, Vaughan, Briggs, Peale, Duponceau, Hare, Wistar, Coxe, Sec'y.)

New species of American Lizard, by Dr. Barton, with a drawing, and the living animal. Paper referred to Latrobe and Jacobs.

Meteorical Observations, Nazareth, reported for publication.

Hist. Coll. S. Mass., Vol. VIII, presented; also on Haygarth's Enquiry how to prevent the Small Pox. Trans. Lin. Sc. Lond., Vols. I to VI, with letter. Thanks ordered.

Balloting for Orator postponed.

Washington's portrait, ordered of Stewart, December 27, 1799, was presented for inspection, and referred to Hamilton, Latrobe and Jacobs, "to report on the merits, previous to any order for its purchase."

Election of five new members: Ben. Dearborn, of Boston; J. B. Jos. De Lambre, one of the Secretaries National Institute, France; Dan. Melamderhjelm, Prof. Astronomy, Sweden; Eric Prosperin, Prof. Astronomy, Upsal; Francis Nichols, of Philadelphia.

1803. May 6. (Allison [sic]; J. B. Smith, Vaughan, Peale, Briggs, Leslie, Nichols, Patterson, Seybert, Jacobs, Mease, Barnwell, Barton; Coxe, Secretary.)

An extract from T. P. Smith's Will, dated at sea, with Observations by R. Peters, was laid before the Society by the Committee of November 19, as a partial report. J. R. Smith and Vaughan "to call upon Thomas Peters Esq of Baltimore or any other person who may be in possession of the effects left to the Society and give security to the Administrator."

Miss Jane Aitken "offers to print Vol. VI Trans. at her own expense & allow the Society 100 copies; agreed to."

Donations from Thos. Moore: "The Great Error or American Agriculture exposed;" and his Essay on Ice houses; from Waterhouse, two pamphlets on Cow Pox; on Agriculture by the Board of Agriculture, Mass. Thanks ordered. From Dr. Barton, a specimen of porcelain clay from the foot of the Ketockton Mountains, near Hagerstown, Md.

Transactions Vols. I, II, III, IV, sent to the Royal Irish Academy, being lost at sea, Mr. Vaughan is "permitted to replace" them. A letter from the Academy acknowledges Vol. V, and "refers the A. P. S. to their printers in London for a copy of their Volumes."

Mr. Briggs' request that the Society "consent to the removal of the Transit Instrument to the city of Washington," referred to Patterson, J. B. Smith and Vaughan.

Dr. Woodhouse elected Annual Orator.

PROC. AMER. PHILOS. SOC. I. XXII. PRINTED MARCH 18, 1884.

1803. May 20. (Barton; Hon. Thos. McKean, Marquis Yrujco [sic], Vaughan, Hare, Latrobe, Nichols; Drs. Mease, Jacobs, Barnwell, Seybert, Hewson; Coxe.)

On Steam engines, by Mr. Latrobe, read and referred to Mr. Hare, Patterson and Marquis Yrujco.

Report of Committee on Washington's portrait "read and received."

Donations: Transactions Society Agriculture, Connecticut; "Anal. of a mineral substance from N. A. containing a metal hitherto unknown," by Charles Hatchet of London. Thanks ordered to Chauncey and Hatchet.

Committee on Smith's bequest of minerals read "the form of a letter of indemnity, directed to Mr. Peters of Baltimore & copied into the book of correspondence. The Soc. approved of the same."

Committee of December 18, 1801, "for fixing a meridian & furnishing the city with the best means of ascertaining the true time, were requested to carry the said resolution into effect without delay."

- 1803. June 17th. (Patterson; Marquis D'Yrujco [sic], Vaughan, Hare, Peale; Seybert, Jacobs, Mease, Hewson, Barton; Coxe.)
- "Ast. Obs. at Lancaster," by A. Ellicott; referred to Patterson and Nichols.
- "Project for abolishing Negro Slavery, by purchasing the negroes & employing them to cut a Canal across the Isthmus of Darien & from Buzzard's Bay to Cape Cod; by Ben. Dearborn of Boston; was read & the thanks of the Society ordered to be returned to Mr. Dearborn."

Secretary of Acad. Sc., St. Petersburgh, acknowledged the receipt of Transactions American Philosophical Society, Vols. I to V, and sent their own Vols. IX, X, by Mr. Euler.

Committee on Briggs' request (May 6th) reported "that the Soc. have only the use of a Transit Instrument, but possess no property therein." Committee on Thomas' account of S. Pacific Islands, reported for publishing extracts, and were empowered to do so.

Committee on Durald's paper (March 18) reported similarly.

"A cock with two pipes to obviate the inconveniences of a vent peg," description by Mr. Hare, referred to Peale and Patterson.

"Pneumato-hydrostatical tub," drawing, by Mr. Hare, who was requested to hand a description to Woodhouse and Hewson to report.

Vaughan reported, presenting Vol. I Trans. to the Managers of the Delaware canal.

Microscope loaned to Mr. Hare for two months.

Donations: Haygarth's Medical Transactions, 4 Vols, 8°, Bath; Lettsom's Hints, 3 Vols., 8°, London; Belknap's American Biography, 2 Vols., 1798; 20 Vols. Transactions Society Arts, London, 1783 to 1802, with a letter, acknowledging Transactions American Philosophical Society, II, III, IV, V; Moseley's Medical Tracts, 2d ed., London, 1800; Eddy's account of State Prison, New York, 1802; from the Royal Academy History, Madrid, Vols. I, II, III and five other publications, with a letter, acknowledging Transactions American Philosophical Society, I, II, III, IV, V; 38 Inaugural Dissertations "written by the students of medicine," University Pennsylvania for 1802 and 1803, and presented by the authors. [The list of titles, &c., occupies a closely-written page.]

1803. July 15. (Patterson; Vaughan, Peale, Barton, Coxe, Duffield, Ruston.)

Committee on Latrobe's reply to the Rotterdam Society's enquiries on steam-engines, reported it well worthy of publication.

Committee on Hare's and Latrobe's reported similarly. Donations: Flora Bat. Nos. 4, 5, 6, with a letter requesting the American Philosophical Society "to forward certain plants & seeds &c." Nos. 7, 8, with a second letter. Secretary to "assure the Council [of the Interior, Bat. Rep.] that the A. P. S. will take measures to carry their wishes into effect." Treasurer "to confer with Mr. W. Hamilton on this important point." Barton's Elements, 2d part; Dobb's Hudson's Bay Company, London, 4°, 1744; Maupertuis' Figure of the Earth, Translations, London, 8°, 1738; Ustaritz on Commerce, Dublin, 1752; Coxe's View of U. S., Phila., 8°, 1794; Account of Establishment of Washington College, Md., Philadelphia, 8°, 1784; Missionalia, London, 1727; Smith and Dickenson's Essay on the Constitutional power of Great Britain over America, Philadelphia, 1774. Thanks ordered.

1803. Aug. 19. (Peale; Vaughan, Hare; Drs. Stevens, Barton, Seybert, Hewson, Mease, Jacobs, Wistar, James, Coxe.)

"Met. Obs. at Gnadenhütten on Muskingum, from May 20 to Oct. 20, 1800," by S. Heckenwelder [sic], referred to Wistar and Patterson.

"On a triple rainbow," in a letter from Mr. Dunbar "of the Natchez."

Smith's bequest.—The Committee on T. P. Smith's minerals reported as received Two cases and one cask from Baltimore, "from the Custom of Phila. through Mr. Wm. McClure & Co.—8 boxes & one trunk from London.—Five boxes & one trunk from France." The Committee "reported partially on the descriptions, viz from 1 to 143, 200 to 296, 401 to 426, 430 to 464, 470 to 486. From 1 to 80 put up by the Council of Mines at Paris; from 1 to 60 by J. Watt, Jr; from 1 to 76 put up at Clermont; a box of specs. of coals." Referred to Seybert, Woodhouse, Mr. Hare, Dr. Barton, Coxe, to examine and class according to Mr. Smith's catalogue.

Extract from the Will:

"To the A. P. S. my collection of minerals with the proper Catalogues to be found among my papers, to be arranged by them, so as to serve as a scientific Collection, but more particularly in a Geological & Manufacturing point of view; They will find among my papers, descriptions of the various chemical manufactories, such as iron, copper, pottery, &c., as carried on in the various Manufactories of Europe I have visited. References are made to such of the specimens as relate to the manufactories, which they will find properly noticed. Should they find any information therein contained useful to the Manufactories of my country, I beg them to publish them."

Mr. Vaughan reported his interview with Mr. Hamilton, who declined.* Dr. Barton requested to attend to forwarding the plants, &c.; the Treasurer to advance funds to be repaid by the Council of the Hague.

Committee on Barton's Lizard; Stevens substituted for Latrobe, "about to leave the city."

Donations: 6 Vols. Transactions Royal Society, Edinburgh, with letter. Laforgue's l'Art du Dentiste.

Bought at cost, "with thanks," of Mr. Vaughan, for \$8.50, Clavigero's History Mexico, 2 Vols. 4°, London, 1787.

1803. Sept. 16. (Patterson; Barton, Ruston, Jacobs, Seybert, Hewson, Coxe, Peale, Hare, Vaughan.)

"Discovery of a Cantharides," in a letter from Dr. Watkins of N. Orleans.

"An attempt to preserve Olives in S. C.," in a letter from Governor Drayton; with his "View of S. C.," 8°, 1802.

"Measurement of an Elephant," in a letter from Dr. Roxborough, of Calcutta; also acknowledging Vol. V.

"Fusion of Strontites & Volatilization of Platina," by Mr. Hare; reported worthy of publication.

Report on Ellicott's Astronomical Observation as worthy of publication, "accepted with certain restrictions." Patterson to write to Ellicott.

Solar Microscope loaned to Mr. Hare; Buffalo horn to Dr. Barton; and Telescope to Patterson.

[#] Cf. July 15.

Fine specimen of Madrapore presented by Dr. Ruston; and various recent small publications by others.

1803. Oct. 7. (Barton; Peale, Vaughan, Hare, Drs. Stevens, Coxe, Hewson, Ruston, Seybert, James.)

Destruction of Carolina pine trees by an insect; in a letter from Drayton to Barton; copy requested for filing.

Donations: (From Ben Vaughan) Minot's Continuation History Mass. 2 Vols. 8°, 1798 and 1803; (From Miss Aiken) Roscoe's Lorenzo de Medici, 3 Vols, 8°; Nicholson's Journal 5 Vols.; Monthly Magazine, London, 15 Vols.; Tillock's Magazine; Bergman. Journal Vols. I, II, III (charges from Hamburg \$6.34).

Buffalo horn, loan to Dr. Barton continued.

Letombe, Paris, April 19, acknowledges membership.

Envoy letter from Van Marum, Secretary Haarlem Society, 42 Vols. Transactions; and acknowledged Transactions American Philosophical Society, V. "Sec. to answer that part of the letter which refers to the purchase of the bones of the mammoth."

Specimens of rock crystal from La Plata presented.

Committee reported a stove "designed & in part executed by Mr. Peale" "calculated to render the room warmer during the cold weather," and "were desired to carry the same into execution."

Curators had bought a Turkey carpet for \$90.

Library rule.—" Agreed, that any volume, but the last and the loose numbers of the different Journals, might be taken from the hall by the members, subject to the same restrictions as other books."

1803. Oct. 21. (Barton; Vaughan, Hare, Nichols, Peale; Drs. Ruston, Stevens, Collin, Jacobs, Coxe, Church, Seybert, Hewson.)

"On the origin of English words," in a letter from Dr. Barton to Dr. Beddoes, was read.

Committee on warming the rooms continued. Thanks to Peale voted.

Mr. Vaughan reported that the 42 Vols. Haarlem Transactions due in the "Commerce, Captn. Rhea, have been carried to England by an English Vessel of war. Dr. Coxe to whom they were directed is requested to take the proper steps for their recovery."

Election of three new members: David Ramsay, M.D., Charleston, South Carolina; Capt. Meriwether Lewis, of Virginia; Rob. Gilmor, Jr., of Baltimore.

An impression of the seal allowed to Miss Aiken for representation on title page to Transactions American Philosophical Society.

1803. Nov. 4. (Patterson; Vaughan, Peale, Smith, Bollman; Drs. Mease, Stevens, James, Jacobs, Hewson, Coxe, Ruston.)

Storm-glass and Journal of Observations, from London to Philadelphia, presented by W. Poyntell; thanks ordered; Patterson appointed to observe with the Storm-glass, and abstract from the Journal for publication.

Barton's "English words," referred to Collin and Duponceau.

Proof of property in the lost 42 Vols. reported forwarded to England.

Donations: Winckleman's Dictionary, 1796; Dutch Grammar, Rotterdam; (from Dr. Priestley) History of Early Opinions concerning Jesus Christ, Birmingham, 4 Vols. 8°, 1786; Discourses, 1787; Misc. Observations, 2d edition, 1788; Letters to Burke, 1791; to Philosophers of France, 1793; Answer to Payne, 1795; to Inhabitants of Birmingham, 1790; Two appeals on the subject of the Birmingham riots, 1792; and sundry other tracts. Thanks ordered.

Librarian reported Tillock's, Nicholson's and other Journals received.

Gauld's MS. History of Florida loaned to Dr. Barton.

1803. Nov. 18. (Patterson; Peale, Hare, Vaughan; Drs. Mease, Barnwell, Seybert, Woodhouse, Church, Stevens, Jacobs, Hewson.)

Received by Committee on Foreign Journals: Journal des Mines, Nos. 1 to 81; Annales de Chimie, Vols. 43, 44, 45; J. de physique, Vols. 6 to 27; Bull. S. Philomatique, 2 Vols, &c.; J. Polyt. Vols. 1, 2, 3, 4; Lagrange's Theorie.

"Obs. & Exp. relating to equivocal or spontaneous genera-

tion," by Dr. Priestley; referred to Dr. Wistar.

Seybert's request to be discharged (January 25), granted.

Donations: Priestley's Chart and System of Biography, Philosophy, 1803; Arrowsmith's Map of Discoveries in North America, 1795. Thanks to Mr. Carey for the same.

"An amulet found some feet under ground near Nashville, Tenn.," presented by Dr. S. Brown.

"Specimen of a Table of Logarithms," presented by Mr.

Garnet.

"Citizen Roume's letter acknowledging the receipt of his certificate of membership was read."

"Account of some coins (with a drawing) found in a field near Reading," by Dr. Wistar.

Dr. Barton returned Gauld's MSS.

1803. Dec. 2. (Wistar; Patterson, Peale, Vaughan, Nicholson, Smith, John, Smith [sic], Drs. Shippen, Mease, Barton, Barnwell, Collin, Ruston, Hewson.)

Priestley's paper reported worthy of publication.

Committee on Foreign Journals reported costs, \$51.18.

Vaughan reported the room and case ready to receive the minerals.

Two Bezoars or Serpent-stones from Hydrabad presented by Mr. Coates.

Quicksilver in Pennsylvania.—" Dr. Barton mentioned, on the authority of Mr. Vandershotz, that a quantity of native quicksilver had been found in the vicinity of Reading."

- "Conversion of common salt into nitre," in a letter from Dr. Priestley; referred to Wistar and Woodhouse.
- "Agreed, to take Michaux's Flora Boreali Americana, price \$15."
- 1803. Dec. 16. (Wistar; Woodhouse, Barton, Barnwell, James, Mease, Currie, Ruston, Hewson; Peale, Hare, Vaughan, Nichols.)
- "On the Supposed fortifications found in the Western country," by Bishop Madison, of Virginia; referred to Dr. Barton.
- "On Phalena granella," in a letter from Mr. Walmsley to Dr. Barton.
- "Supplement to paper on Dippus [sic] americanus," by Dr. Barton; referred to Mr. Peale.
- " $M^{r.}$ Latrobe acknowledged his having in his possession two maps of the survey between the Chesapeak and the Delaware by $M^{r.}$ Anderson and $M^{r.}$ Gilpin, the property of the Society."

Asiatic Society acknowledged receipt of Vols. I to V.

No papers for the Magellanic premium. Secretary to advertise.

Book of Verbal Communications to be examined by Barton, Vaughan and Hare for purposes of publication; empowered specially to publish Patterson's paper on Clearing Wells in the Domestic Encylopædia.

Public notice of annual election to be given.

1804. Jan'y 6. Between 2 and 5 o'clock. (Vaughan, Peale, Patterson, Nichols; Drs. Collin, James, Duffield, Barnwell, Barton, Shippen, Seybert, Mease, Caldwell, Woodhouse, Hewson.)

James, Collin, Peale, Judges; Vaughan, Hewson, Secretaries.

ELECTION OF OFFICERS.

President—Thomas Jefferson.

Vice-Presidents-Patterson, Wistar, B. S. Barton.

Secretaries—Coxe, Sevbert, James, Hewson.

Counsellors [sic]-White, J. B. Smith, Duponceau, Kuhn.

Curators—C. W. Peale, R. Hare, Jr., John Church.

Treasurer-John Vaughan.

1804. Jan'y 20. (Barton; Duponceau, Nichols, Wheeler, Vaughan, Peale, Patterson, Hare; Drs. James, Fothergill, White, Mease, Woodhouse, Hewson, Caldwell, Coxe, Collin, Barnwell, Currie, Church, Seybert, Duffield.)

Dr. Collin to translate a letter from the late Prof. Prosperin, of Upsal, to be filed away.

Madison's paper reported and ordered for publication.

Complete Journals of T. P. Smith had been discovered.

Mr. Vaughan to procure the medal "heretofore decreed to Dr. Collin."

Donations: Serenius' Dictionary, 4°, 1734; An. Rt. R. Humane Society, 1803; Priestley's Lectures on History, new edition, 2 Vols: Priestlev's Doctrine of Phlogiston established, 8°, 1803. (From Chas. Smith, of Lancaster; Pitisci Lexicon Ant. Rom. Vol. II, Fol. 1713; Murray's True Interest, &c., London, Fol. 1740; Widow and Children's Fund, Edinburgh, Fol. 1748; Æliani Sophistæ Vultigii, Lugd. Bat. 2 Vols, 8°, 1701; Limborch's De Veritate Rel. Ch. Godæ, 4°, 1687; Hersey's Algebra, London, Fol. 1673; Fry's Types, London, 8°, 1785; Parker's Hist. Un. Camb. London, 8°, 1622; Starrat's Doctrine of Projectiles, Dublin, 8°, 1733; Grew's Tables of Sun and Moon, fitted to the Meridian of Philadelphia, MS. 4°, 1746; Kuypers' Ali ben abi Taleb Carmina, Lug. Bat. 8°, 1745; Sullivan's Journal of the American War, 1775 to 1778, MS. 8°. Thanks ordered to Mr. Smith.)

Sullivan's Journal was referred to Duponceau, Barton and Nichols.

Barton's "Jerboa," reported and ordered for publication. Fines for books not returned January 6th, remitted.

Election of two new members: David Humphreys, late Minister United States at Lisbon; Joshua Gilpin of Philadelphia.

1804. Feb'y 3. (Wistar; Drs. Woodhouse, Fothergill, Barton, Hewson, Mease, Ruston, Barnwell, Seybert, James; Messrs. Peale, Nichols, Patterson, Vaughan, Gilpin.)

Jefferson's letter read as follows:

Washington Jan. 20th 1804.

SIR

The renewed evidence of regard which I receive through you from the American Philosophical Society, calls for my grateful acknowledgments, the suffrage of a body of men, of the first order of science, associated for the purposes of enlightening the mind of man, of multiplying his physical comforts, improving his moral faculties, and enlarging the boundaries of his knowledge in general, is a testimonial which I cherish among those most dear to me.

After making my just acknowledgments to the Society for their favors, I add congratulations on the enlarged field of unexplored country lately opened to free research, should the unknown regions of Louisiana attract the attentions of the friends of science, such facilities and patronage as are within the limits of its authority will be cordially afforded by a government founding its security & best hopes in the knowledge of its citizens, not in their ignorance.

I pray you to present my high respect to the Society, & to accept your-self assurances of my great consideration.

THO. JEFFERSON.

Donations: Les Saisons de Thompson, par Poulin, 8°. 1802; La Logica de Condillac, Mad. 8°, 1800; Carta sobre... Colonias.... Philadelphia, 1803; Carte sobre Contribuciones (last three by Foronda); An. Rt. R. Humane S., 1801. Thanks voted to Fothergill, Poulin aud Foronda.

Committee on Alteration of the Society's Time-piece discharged, and Patterson, Vaughan and Nichols appointed.

"Dr. Woodhouse declined delivering the annual oration." Election of orator at next meeting.

Committee on a Plan for Publishing future volumes: Patterson, Nichols, Barton, Mease and Vaughan.

Resolved, That a fire be made every Tuesday evening (the season requiring the same) in the Hall for the purpose of accommodating the members who meet for reading & conversation."

1804. Feb'y 17. (Barton; Collin, Fothergill, Coxe, Barnwell, Stevens, Ruston, Wistar; Peale, Nichols, Vaughan, Hare.)

A letter from George Erving, Consul at London, reported that the Vols. Trans. Harlem Soc. would undoubtedly be recovered from England.

A letter from Prof. Thunberg certified to the reception of Vols. of Transactions American Philosophical Society at Upsal and Stockholm.

Report of Committee on future publications read and laid over.

Vol. 45, An. de Chimie loaned to Mr. Hare.

Eulogium on Priestley.—A member to deliver a Eulogium on Doctr. Priestley, lately deceased, to be elected Feb. 24th; notice to be sent to members.

Election of Orator for 1805 postponed to next meeting.

Dr. Hewson to draft a reply to Jefferson's letter, especially that part of it relating to Louisiana.

Donations: Grave's Pocket Conspectus of London and Edinburgh Pharmacopæias. (Engraving of the Marine Spencer; Bishop Valpy's Annual Sermons; Fothergill's Essay, 1800; Jenkins' Philanthropist; Rules of Bath and W. E. Society, 1802; Public Cautions; Semmes' Inaugural Dissertation, 1801. Thanks ordered to Dr. Fothergill.)

1804. Feb'y 24. Special Meeting. (Patterson; White, Barton, Caldwell, Andrews, Stevens, Fothergill, Collin, Mease, Woodhouse, Hewson, Seybert, Wistar, Barnwell, Duffield, Coxe; 'Duponceau, Abercrombie, J. B. Smith, Peale, Allison, Vaughan, J. R. Smith, Gilpin, Hare, Nichols = 26.)

After nominations, viva voce or by ballot (nominees being allowed to decline at any time previous to election), Dr. Barton was elected Eulogist.

1804. March 2. (Barton; Wistar, Fothergill, Hewson, Coxe, Mease, Barnwell, Ruston, Collin, Seybert, Caldwell; Peale, Vaughan, Nichols, Patterson, Allison, Hare.)

Barton's paper on English words reported for publication. Hewson's draft of answer to Jefferson recommitted.

Report of Committee on Publication recommitted; Wistar and Hewson added; Committee to report generally on the by-laws.

Donations: Domestic Cyclopedia, American edition, 5

Vols. 8°, and various pamphlets.

"A cast of the late Mr. Lavoisier taken in plaister of Paris; by Dr. Coxe." Thanks ordered.

Appointment of Eulogist to be published.

Election of Orator postponed to next meeting, and "a nomination" to be made previous to the election.

A set of Meteorical Observations made at Elk lands, Lycoming county in 1803, by Rich. Ecroyd, presented by Mr. Vaughan.

1804. March 16. (Patterson; Drs. Collin, Mease, Barnewell, Coxe, Seybert, Ruston, Barton, Hewson; J. B. Smith, Peale, Nichols, Vaughan.)

Set of Transactions American Philosophical Seciety acknowledged by Mr. L'Hommedieu, Secretary New York Society Prom. Agriculture.

Alteration of Time-piece reported to cost \$80; postponed. Hewson's answer to Jefferson read and ordered to be forwarded.

Donations: Mem. de l'Inst. Vol. IV, 3 parts; Camus' Mem. sur Coll. de Voy. des de Bry et de Thevenot; White's Journal Voyage, New South Wales, London, 4°, 1790; Binns' Treatise on Farming, 1803; Observations on Trial by Jury, Strasburg, 1803. Thanks ordered.

"Meteors seen in different parts of the world in November 1799," extracted from Gentleman's Magazine, by John Chipchase, ordered to be placed on file.

Dr. Wistar elected Orator for 1805.

- 1804. April 6. (Barton; Wistar, Fothergill, Woodhouse, Church, Mease, Hewson, Barnwell, Coxe; Patterson, Peale, J. B. Smith, Hare, Nichols, Vaughan.)
- "On the Mississippi & its Delta," from W. Dunbar of the *Natchez*, read in part and postponed.
- "Obs. on some Fossil Bones," in a letter from W. Lewis, of Campbell county, Virginia, to Jefferson, read, and referred to Patterson, Wistar and Hare.
- "On the fascination of serpents," by Dr. Williamson, referred to Church, Hare and Hewson.
- "Met. Obs." by Mr. Dunbar, for 1801, 2, 3, "at the forest, 4 miles east of the river Mississippi," read and referred to Mease, Wistar and Barnwell.

Report of Committee on By-Laws postponed one week.

Committee on Time-piece; report recommitted, after discussion for a particular plan of execution.

Dr. Wistar declined the appointment of Orator "Stating the impossibility of his accepting for the next year." Excused.

Profile of Dr. Priestley in black leather, given by Mr. Patterson.

Donations: Flora Bat. Nos. 9 to 12, with letter; Printed, Committee from Pennsylvania Society for Encouraging Manufactures, 1804.

Buffalo horn, and Vol. 45, Annale de Chimie, reported returned.

Set of Transactions American Philosophical Society, ordered sent to Council Int. Bat. Rep. with letter of thanks for Fl. Bat. and a copy of Marshall's American Grove.

1804. April 13. Special Meeting. (Patterson; Barton, Mease, Coxe, Hewson, Seybert, Barnwell, Ruston, Allison; Peale.)

Dunbar's paper on the Mississippi and its Delta was "by the particular desire of several members" read to the end, and ordered to be added to the Volume now printing. By-Laws reported at last meeting, read by paragraphs, and "necessarily postponed" to next meeting.

Committee on Time-piece reported; laid over to next

meeting.

Donations: Mosely on Tropical Diseases, fourth edition, 1803; Oliver Evan's Young Miller's Guide, Philadelphia, 1795; Specimen of cannel coal from England.

Telescope loaned to Patterson for a few weeks.

1804. April 20. (Patterson; Ellicot, Nichols; Drs. Woodhouse, Fothergill, Mease, Hewson, Barnwell, Church, Wistar, James, Collin, Barton, Coxe.)

Dunbar's Meteorical Observations reported worthy of publication.

Report on Time-piece adopted and recommitted for execution.

Report on Lewis' letter, April 6. Since it "principally refers to minerals which are to be presented to M^{r.} Peale," it should "accompany the minerals." Adopted.

By-Laws, Sections 1, 2, 3 discussed and postponed.

Election of five new members: Mr. Webber of the University, Cambridge, Massachusetts; El Senr. Principe de la Paz; Il Exmo. Sen. Don Pedro Cavallos, Primer Ministro de Estado y de los Neg. Estrangeros; Don Ant. Jose de Cavanillas y en cargado de la direction del R. Jardin Botanico de Madrid; Dr. Ed. Jenner of London.

1804. May 4. (Patterson; Fothergill, Wistar, Woodhouse, Hewson, Mease, Ruston, Barton, Barnwell, Coxe; Vaughan, Nicolls [sic], Peale.)

Donation of a pamphlet by Foronda.

By-Laws discussed, in continuation, "& after due deliberation, they were agreed to as follows, unanimously."

SECTION 1ST.

Rules respecting the order of Business at the Ordinary Stated meetings of the Society.

The President, one of the Vice Presidents, or in their absence the Chair-

man chosen by the Society to preside during the meeting, shall take the Chair, and call the Society to order within one hour at most, after the time appointed for the meeting of the Society. The ordinary business of the Society shall then, as nearly as circumstances may admit, proceed in the following order—

1st. The Recording Secretary shall read the minutes of the last stated meeting, and also of any subsequent special meeting if such have occurred.

2d. Committees appointed at former meetings shall be called upon to make their reports, which may then be adopted, rejected, amended, recommitted, or the consideration thereof postponed, as the Society shall determine.

3d. *Donations* will be received, and the thanks of the Society returned to the Donor, if present by the presiding member, but if absent by a letter signed by one of the Secretaries.

4th. Letters, papers or communications will be received by the presiding member, and read by one of the Secretaries. Every communication which may be considered as intended for a place in our Transactions, shall be immediately referred to a committee to consider & report thereon, and the receipt of the paper, if the author be not a Resident member shall be acknowledged in a letter signed by one of the Secretaries.—

5th. Communications or remarks, whether Verbal or in writing (though the latter will always be preferred) which may not be intended by their authors for publication in our Transactions, will be received, & recorded or transcribed by one of the Secretaries in a Book to be provided & kept for that purpose.

6th. Any other business not comprehended under any of the foregoing heads, may by motion be brought before the Society & discussed.

7th. The rough minutes of the present meeting shall be read by the recording Secretary and, if necessary, corrected by the Society, and then or before the next meeting of the Society transcribed into their book of minutes.

8th. The Society shall be adjourned by the presiding member.

SECTION 2D.

Rules respecting the election of Members & other periodical business of the Society.

1st. At the meetings of the Society when new members are to be elected, the names of the Candidates being attached to the ballot-boxes shall be severally announced by the presiding member. Previous to the balloting for any Candidate one of the members who proposed him or any other member may for the formation of the Society speak to his Character and qualifications as a member of the Society. The recording Secretary shall then call over the names of the members present in the order in which they are inserted in the minutes, and in this order they shall ballot for the several Candidates in succession. A white ball being considered as in favor of the Candidate, and a black one as contrary. The balloting

being gone through, the boxes shall be opened, and the state of the Poll declared by the presiding member—but not until all the other business of the meeting shall be discussed.—No Candidate shall be balloted for, if none of the members proposing be present, but his election shall be postponed till the next stated period, unless the Society shall at the time determine otherwise. No Gentleman whose election has been twice postponed shall be any longer considered as a Candidate, without a new nomination. It is strictly enjoined on all the members not to mention out of the Society the names of any of the Candidates proposed, nor of any unsuccessful Candidate—and the paper containing the names of the Candidates balloted for shall be destroyed immediately after the election.

2d. Previous to the election of an Orator, or person to deliver an address a nomination shall be made by any members of the Society at the stated meeting immediately preceding and out of this nomination the Orator or person to deliver the address shall be chosen by ballot.

SECTION 3D.

Rules respecting the advertisement of meetings &c.

1st. Every meeting of the Society or the Officers of the Society, shall be advertised in at least two of the daily newspapers of the City, if it can be done without any expense to the Society, on the day previous to the time of meeting, and a notification shall be sent to each resident member on the day preceding that of the meeting.

2d. Immediately after the meetings on the 3^d Friday of January April July & October respectively, a complete list of all the donations & communications made to the Society with the names of the Donors or Authors as also of the new members elected within the last three months, shall be published in at least two of the newspapers & magazines of the City, if without any expense to the Society.

SECTION 4th.

Rules respecting the appointment & duties of a Librarian.

A member of the Society or some other suitable person shall be chosen by the Society on the 3d Friday of May next, and on the 3d Friday of January annually hereafter, as a Librarian of the Society with a Salary of two hundred dollars per annum, who shall perform the following duties.

1st. He shall have the custody & care of the books & papers belonging to the Society, which he shall dispose and arrange in such a manner as shall be judged most convenient and shall keep an arranged list of such papers. He shall assist the curators in arranging & preserving all the subjects of natural history, with the models of Machines, Instruments, Medals, and all other articles belonging to the Museum of the Society making a complete list thereof for the Society.

2d. He shall advertise the meetings of the Society, and of the Officers of the Society, shall employ a person to notify the members individually and

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shall publish quarterly the list of donations, communications, & of new members as directed in Section 3d.

3d. He shall attend at the stated meetings of the Society, and shall then, or at any such time as he shall think proper lend out to any resident member of the Society, any books belonging to the Library, except the last volumes and loose numbers of the different Journals imported by the Society & except recent donations made to the Society, which shall not be lent out, taking from each member borrowing a book an obligation with a sufficient penalty to return the same uninjured at or before the next stated meeting of the Society if in the months of June, July, August or September, but at or before the second stated meeting, if in any of the other eight months of the year, subject to a fine of fifty cents for every stated meeting that shall occur after the limited period before he returns the book, and a forfeiture of double the value of the book, or of the set of which it is one, if not returned in six months after being borrowed. The monies arising from fines & forfeitures to be exclusively appropriated towards the binding and purchase of books for the library.

4th. He shall attend at the Hall of the Society every Friday Evening on which no meeting of the Society, or of the Officers of the Society shall be .held, from seven o'clock to nine, at which time any member of the Society may also attend, for the purpose of reading, social conversation, or making experiments, and may if he thinks proper bring a friend with him.

5th. He shall with the approbation of the Society contract for & shall also superintend the printing of the Transactions of the Society free of anv or with as little expense to the Society as possible; and in the discharge of this duty, it shall be considered as incumbent on every member of the Society, when desired, to render him all the aid in his power. The Transactions of the Society shall in future be published annually, and after the completion of the 6th volume, the first part of which is now in the press, they shall be printed in an Octavo form, commencing a new Series. publication shall be made as early as possible after the commencement of the year and shall consist of such papers then in the custody of the Librarian, as shall have received the sanction of the Society, and such extracts from the book of "Verbal communications" as shall be recommended by the committee chosen for that purpose, and approved by the Society, together with a list of the Officers of the Society for the time being, a list of the new members elected since the publication of the preceding Volume, a list of the donations made to the Society, and such other articles as the Society may from time to time direct.

SECTION 5TH.

Respecting the meeting & business of the Officers of the Society.

1. The Counsellors & other officers of the Society shall hold stated meetings on the 2nd Friday of February—May—August—& November respectively, at the same hours in the evening at which the stated meetings of

the Society are appointed to be held, in the same months & such other occasional or special meetings as they may judge proper, and shall keep regular minutes of their proceedings to be laid before the Society at their Stated meetings on the 3d Fridays of the same month respectively.

- 2. They shall from time to time lay before the Society such measures as they may judge will conduce to the well governing and ordering the affairs of the Society, or to promote the objects of their institution; particularly they shall recommend subjects for premiums to be offered by the Society, with the conditions on which they shall be awarded.
- 3. To them shall be referred all communications from Candidates for premiums, whether the Magellanic, or those offered by the Society, on which they shall make report without any unnecessary delay.
- 4. Seven members shall be a Quorum competent to any of the above duties.

SECTION 6TH.

Of the appointment & Duties of Committees.

- 1. No Committee appointed on any subject of deliberation, shall consist of less than three members: but any other matter may be committed to a single member. A majority of any Committee shall be a Quorum.
- 2. All Committees shall be chosen by the Society on a nomination previously made & seconded—The Question being then put on each member separately, but no member of the Society shall either nominate or second the nomination of more than one member of any Committee.
- 3. The member first elected of any Committee shall be the Chairman and considered as responsible for the discharge of the duties enjoined on the Committee.
- 4. When any Committee is appointed, the time at which they are to make their report shall be also appointed by the Society and in the failure of the Committee making a final report at this time, unless a satisfactory reason for their delay be given they shall be discharged, and the matter dropped, or referred to another Committee as the Society shall then determine.
- 5. All reports shall be in writing, & signed by all the members agreeing thereto.
- 6. The Committee to whom shall be referred any communication which may be considered as intended for a place in our Transactions shall report their opinion, and if this be in favor of publication, they shall make such corrections, as they may judge necessary, to fit it for the press, and if they shall judge the publication of an abstract—or extracts from the paper would be most eligible, they shall accompany their report with such abstract or extracts. The author, however, in the above cases shall be consulted when convenient before his paper is printed.
- 7. When any Committee is appointed, the Librarian shall enter in a book to be provided & kept for that purpose, and divided into proper Columns, the names of the Committees, the time of their appointment, the

matter of business committed to them, and the time at which they are to report, & when the final report is made, the time shall be entered in an adjoining column.

SECTION 7TH.

Rules respecting the annual Contributions, and the sums to be paid by new members on their admission.

- 1. The Contribution of Members resident in the city or within ten miles thereof shall be two dollars per annum, payable on the first Friday of January, at the time of the annual election of Officers—and the Sum to be paid by every new member on his admission into the Society or receiving a certificate of Membership, shall be ten dollars. Members, however, residing in foreign Countries shall be exempted from the payment.
- 2. No Member in arrears either for his admission money or annual payments shall be eligible to any office, or be entitled to vote on any question in the Society.
- 3. No Member who shall be in arrears to the Society for two or more annual payments, or who residing in Philadelphia, has neglected to attend their meetings for one whole year shall any longer receive notification of the meetings of the Society, nor be eligible to any office in the same.

SECTION 8TH.

General Rules relating to order &c in the Society.

- 1. No debate shall ever take place in the Society but on a motion duly made & seconded, and afterwards stated by the presiding member.
- 2. When a member speaks he shall stand up, addressing himself to the presiding member; and, avoiding desultory remarks, he shall confine himself strictly to the merits of the question under consideration.
- 3. No member whilst speaking shall be interrupted, unless by the presiding member when he shall think fit to call him to order or to admonish him to a closer adherence to the question under discussion.
- 4. When a member speaking is called to order, he shall instantly sit down, or appeal from the call to the Society, who shall determine without debate.
- 5. No Member shall speak more than twice to the same question without previously asking & obtaining leave of the Society.
- 6. Whilst any question or motion is under debate, no other motion shall be admitted, unless to divide the question, to amend, to postpone or to adjourn.
- 7. No motion to reconsider a former resolution can be made or seconded except by a member who voted in favor of said resolution.
- 8. No motion under discussion can be withdrawn without the consent of the Society.
- 9. No motion for adjournment shall be carried unless by the unanimous vote of the Society, before nine o'clock in the Evening, and shall at all times be determined without debate.
 - 10. The presiding member shall have no vote unless in the case of a tie,

or equality of votes among the other members,—where the act of Incorporation or fundamental rules require more than a bare majority of the members present, or where the Vote is taken by ballot.

- 11. Thirteen shall be a Quorum competent to the awarding of premiums proposed by the Society, and the election of new members. In all cases not otherwise provided for by the Constitution or other regulations of the Society, the Members attending shall be a Quorum, and a majority of votes shall decide.
- 12. A book shall be provided and kept by the Librarian, containing the names of all the members resident in Philadelphia arranged in alphabetical order with a number of adjoining columns equal to all the stated & special meetings in the Year, and at every meeting the said Librarian shall, opposite the name of every present member and in the proper Column insert the letter P.—This Book shall always lie on the Table, so that the Society may at all times know the number & names of their resident members, & the state of their attendance.
- 13. These Bye Laws, together with the act of Incorporation, the twelve sections of fundamental laws referred to in that act, all the other acts of the Legislature relative to the Society—The rules & conditions relative to the Magellanic premium; and all other bye-laws, rules or regulations of a general nature that may hereafter be made by the Society shall under the direction of the Librarian be transcribed into a separate book to be provided and kept for that purpose, which book shall lie on the Table, at every meeting of the Society.
- 14. All the Bye Laws heretofore made by the Society & all other rules or regulations, other than those referred to in the above article, are repealed.

Signed. Robert Patterson. John Vaughan. F. Nichols. James Mease. Thos. T. Hewson. B. S. Barton. C. Wistar Jr.

1804. May 18. (Patterson; Fothergill, Hewson, Barton, Seybert, Duffield, Barnwell, Wistar, Collin, Mease, Preston, Coxe; Duponceau, Vaughan, Peale, Williams, J. B. Smith.)

Transactions Vol. VI, part I, reported printed, and 100 copies will be delivered as soon as put in boards.

Donations of 7 pamphlets from Dr. W. Hawes, Treasurer Humane Society; 2 from Rev. J. Elliot of Boston; 1 from Mr. W. Barton.

Minutes of meeting of Councillors, &c., read.

"Facts & obs. relative to the Turkey," by Dr. Barton read.

John Vaughan elected Librarian.

"Fine Copy" of Part I, Vol. VI, Trans. presented by Miss Aiken. Librarian directed to send copies to the Greenwich, Paris, Saxe Gotha and Isle de Leon (Cadiz) Observatories, as well as corresponding Societies.

1804. June 15. (Patterson; Mease, Ruston, Wistar, Barton, Shippen, Coxe; Yrugo [sic], Williams, Duponceau, Briggs. J. B. Smith, Vaughan, Wheeler, Nicolls [sic].)

Ten delinquent committees, continued, with orders to report at the next meeting.

Donations: Works of the late Dr. Wm. Smith, Vols. I, II, from the printer, Hugh Maxwell; Nova Acta Acad. Petropol. XIII; 15 Medical theses.

"On the discharge of two worms from the ear of a child," in a letter from Dr. Hosack of New York, with a description of the case by Dr. Gillespie, and a vial containing the worms; referred to Barton, Wistar and Mease.

"On plaister of Paris as a manure," in a letter from R. P. Barton, Frederick, May 28, to Dr. Barton, "giving an account of a threshing machine & of the climate;" read.

"On Magotty Bean," in a letter from P. Custis to Dr. Barton, Acomac county, Virginia, read.

"Some account of the Amelioration of climate in Mass.," in a letter from Jas. Winthrop to Fr. Nichols; read; copies of the above to be preserved in the Book of Verbal Communications.

Dr. Collin to employ a person "to copy or extract from the records of the Swedish Churches such parts as might appear interesting for the history or natural history of the country, at the Society's expense."

Humboldt: "Resolved, That Dr. Wistar be permitted to introduce A.Von Humboldt as a Visitor at any subsequent meeting."

Several Mexican paintings were shown by Dr. Barton.

Mr. Peale's lease expiring in a few days, Patterson and Mease were appointed to aid him in settling his accounts, and to report terms for another lease.

1804. July 20. (Patterson; Duponceau, Latrobe, Vaughan, Peale, Clay and Smith; Wistar, Seybert, James, Coxe, Mease, Fothergill, Barton, Shippen, Woodhouse, Collin, Hewson.)

Committee on Hosack's paper requested time and was continued.

Committee on Peale's Lease continued.

Committee on "Purity of Air" asked to be discharged. Granted.

Committee on Shells continued.

Committee to translate Tousard's paper, to report in September.

Committee on Powhattan Genealogy to report in August.

Committee to arrange Smith's minerals reported difficulties in fixing on any system. Society ordered Kirwan's system (second edition) to be adopted, and Committee to report in September.

Committee on Sullivan's MS. Journal, reported it "not deserving particular attention, yet to be preserved in the Library."

Election of four new members: Wm. Short, Esq., of Virginia; Le Baron Alexandre de Humboldt, of Prussia; Jos. Willard, D.D., President Harvard College, Massachusetts; Zacheus Collins, of Philadelphia.

Franklin's bust, No. 3: "The Society received a letter from M^{r.} J. R. Smith, accompanying a marble bust of the late D^{r.} Franklin executed at Florence." Letter of thanks ordered, to be signed by one of the Vice-Presidents "for this handsome donation."

Donations: Carver's Travels, 1796; Ramsay's Oration; Kramern's Dutch Dictionary, 1769; Terrible Tractoration, 1804; Specimens of Salt moss from Montgomery county, with written account; Miller's Retrospect, 1803.

Mr. Clay's "demonstration of a geomet. theorem," was referred to Latrobe, Patterson and Hewson.

1804. Aug. 17. (Patterson; Governor McKean, Duponceau, Vaughan, Collins, Peale; Barton, Woodhouse, Mease, Coxe, Bache, Currie, Collin, Ruston, Shippen, Hewson.)

Report on Williamson's "Fascination &c," adopted. Dr. Collin's reply to the request of June 15th, received.

Committee on Peale's Lease reported that Mr. Peale offered \$300 a year for the part of the building he occupied, and one half as the cellar, for 10 years. Agreed to. Duponceau to draw up the lease.

Report of Board of Officers on subjects for the Magellanic Premium read and postponed. Board of Officers recommended to consider if any amendments to the conditions of

the premium ought to be made.

Donations: Marshall's Washington, Vol. I, 1804; Steven's Wars, &c., 2 Vols.; Junta Publications, 3 Vols., 4°, Valencia, 1799–1801; Historical Society, Massachusetts; Vol. IX; Ruston's Yellow Fever Tracts, 8°, 1804; a Vocabulary of Eight Languages, and an Indian hatchet (from Major Awardi?); Gloster's Meteorological Observations, Warrington, North Carolina, 1789; Reichel's Meteorical Observations, Nazareth, 1787 to 1790; Gypsum from Nova Scotia and Havre de Grace; Sulphate Magnesium from Mr. Patterson, Monroe county, Virginia (in a cave with bones of Megalonyx), and letter from W. Hembel, of Philadelphia.

Librarian to return to Dr. Barton certain papers requested by him.

Secretary to write Captain Mugford, of Ship Ulysses, Salem, Massachusetts, "that the Soc. have read with great interest the newspaper account of the new kind of rudder . . . invented in his last voyage . . . [which] may prove eminently useful . . . saving the lives & properties of many of our fellow men;" "request . . . a correct account . . . & the circumstances . . . & if possible a small model to take means to render this discovery as extensively useful as possible."

Vaughan's copy of Kirwan's mineralogy offered for \$6,

cost to him; "agreed to take the work;" and "to refund to him \$5, paid in the purchase of Barton's Elements of Botany sent as a present to Dr. Roxborough."

Letter from Mr. Vaughan of London to Dr. Coxe announcing the transmission of Transactions Hærlem Society.

Resolution: Minutes of Board of Officers to be read after the Minutes of previous Stated Meeting; and reports of Board of Officers before the reports of Committees.

1804. Sept. 21. (Wistar; Patterson, Vaughan, Peale, Collins, Duponceau, Gilpin, J. B. Smith, Wheeler; Barton, James, Woodhouse, Coxe, Hewson.)

Board of Officers reported that no alteration in the Conditions of the Magellanic Premium could legally be made.

The Board of Officers reported a resolution, the first part of which was adopted, as follows:

"That Mr. Magellan by the words Natural History meant to comprehend only the more purely nomenclatural and descriptive parts of this Science in all its branches & consequently that many subjects connected with the philosophical parts of Natural History as well as Chemistry and certain other sciences do come within the scope of the donor's intention."

Lease to Mr. Peale exhibited, adopted, and ordered to be executed.

Committees on Hosack's paper, on arranging shells, on Smith's minerals, on application from Batavia, and on Storm-glass experiments, were continued for various lengths of time.

Secretary reported writing to Capt. Mugford (Aug. 17, 1804).

Donations: Marshall's Washington, Vol. II; Whitman's Travels in Turkey and Egypt, 8°, Philadelphia, 1804; Humphrey's Miscellaneous Works, 8°, 1804; and Valedictory; Agricultural Society, Massachusetts, papers; Braithwaite on Oxygenated Muriatic Acid in Scarlet Fever; Mathematical Corrections; Hoppes' Sextant; Valpy's reply; De Luc's Abrégé, Brunswick, 1803; French Encyclopedia, 67th liv.;

Vol. IV, ii, Sup. complete, Art Militaire; Vol. II, i, Architecture; 1 Vol. plates, Art Oratoire (cost \$5.54).

"On the improvement of Agriculture & the useful Arts,"

read and referred to Wistar, Duponceau and Mease.

"Essay on the precession of the Equinox," by "Julius," for the Magellanic Premium, read and referred to the Board of Officers.

"On uterine & marsupial gestation," in a letter from Dr. Barton to Prof. Autenrecte of Tübigen [sic], read by Dr. Barton.

Count Rumford's acknowledgment of election received.

Dr. Barton's proposal to exchange Monro on Fishes for Soulavie's Historical Society of France, belonging to the Society, was agreed to.

Magellanic Fund: Referred to Board of Officers to report how "the Surplus monies arising out of the interest on Mr. Magellan's donation are to be appropriated, also," on the state of the Fund.

1804. Oct. 5. (Barton; Vaughan, Peale; Collin, Woodhouse, Fothergill, Wistar, Hewson, James.)

Report of Board of Officers on Magellanic Fund read.

Letter read relative to Mugford's Temporary Rudder.

"Appendix to memoir on the Mississippi (Trans. Vol. IV)," by W. Dunbar, read and referred to Patterson, Collin and Hare.

"On the tribe of Fungi," by Lichtenstein, read. Hoppes' Sextant, & Monk's pyrometer, exhibited.

Exchange of a Vol. of Transactions American Philosophical Society for a copy of Gallitzin's Dictionary of Mineralogy, owned by Prof. Zimmerman, agreed to.

"On the Worm supposed to destroy the S. C. pines," in a

letter from Gen. C. C. Pinckney, read.

1804. Oct. 19. (Patterson; J. B. Smith, Collins, Vaughan, Ponceau, J. R. Smith, Hare, Peale, Wheeler; Collin,

Woodhouse, Seybert, Bache, Hewson, Coxe, Wistar, Barton, Parke, Fothergill, Duffield, Caldwell, James.)

Magellanic Fund: Report of Board of Officers. Resolution recommended and adopted:

"That the surplus fund (that is, the Interest above Ten guineas a year,) be employed, in the first instance, according to the strict Conditions of the donation, if a sufficient Number of deserving Candidates shall have applied for the same; otherwise be awarded to the Authors of useful Inventions or Improvements on any Subjects, within the general View of the Magellanic Donation . . . the premium thus awarded shall be expressly declared to be from the Surplus of the Magellanic Fund,"

"The Treasurer having made an Error in the Statement of the Fund, from supposing all the adjudged premiums to be paid, presented a new Statement as follows:—2 premiums adjudged & paid; 2 premiums adjudged & not paid \$100; 13 to be adjudged at \$50, \$650 = \$750—whole no. received 17.—Surplus Fund from Rent & Interest \$772.83.—Amount of whole fund \$1522.83."

Donations: Dufief's Nature Displayed, 2 Vols. 8°, Philadelphia, 1804; Pinkerton's Modern Geography, 2 Vols. and Atlas, 1804.

Board of Officers instructed to report Rules made necessary by the above resolutions respecting the Magellanic Fund.

Librarian to have Catalogue of the Society's books copied, to be kept constantly on the table.

Board of Officers to report from time to time Lists of recently published Books, Charts, &c, to guide the Society in its occasional purchases; and the Members recommended to throw desirable Titles, &c., "into a Lion's Mouth to be provided by the Librarian," and to be consulted by the Board of Officers in making the Lists.

1804. Nov. 2. (Barton; Du Ponceau, Vaughan, Peale, J. B. Smith, Hare; Hewson, Mease, Collin, Fothergill, Shippen, Coxe, James.)

Board of Officers asked and were granted further time. Paper signed "Julius" was returned with a report of a Committee of Board of Officers. Ordered to be filed for use in adjudicating the prize at the proper time.

Committee on "Essay on the Imp. of Agric. & the Useful Arts," reported. Essay to be filed away, and a copy sent to the Agricultural Society at Washington.

Donations: Asiatic Researches of the Asiatic Society, Vols. I to IV, 4°, with a letter, July 20, from the Secretary at Calcutta; Transactions Royal Irish Academy, Vols. II to IX; Set of Transactions Batavian Philosophical Society, Haarlem, at last recovered from the Admiralty in England. [List follows.] Charges, "including the Admiralty Expenses," £14 ·· 15 ·· 7, paid by Wm. Vaughan. Treasurer ordered to reimburse W. V. "at the Exchange of 170, being £25 ·· 2 ·· 5, and communicate the thanks of the Society for his exertions." Marshall's Washington, Vol. III; Woodward's Sufferings, 8°, London, 1804; Journal Royal Institution, London, No. 1 to 16, 1800, 1803, with a letter from the Secretary.

Resolved, That M^r. W. Vaughan of London be requested to act as agent for the A. P. S. in receipting for the publications of the R. Soc. London, in future.

Duponceau requested to give some accounts of the contents of the three last Vols. Transactions Batavian Philosophical Society, Haarlem, just received.

Account of New Instructions in London, in a letter from Dr. Lettsom to Dr. Fothergill, read.

Transactions American Philosophical Society received by the Dublin Society; information of the fact obtained through a friend's letter to Mr. Vaughan.

Librarian to furnish a list of duplicate books in the library.

Deposit of Jos. Smith's Engravings: "Wm. Loughton Smith Esq. of Charleston, S. C. on the part of his Brother Joseph Smith Esq. proposes to deposit with the Society, the valuable Collection of Engravings, which the latter sent to America from Italy, at the same time that he sent the Collection of Casts & Busts now deposited in Mr. Peale's Mu-

seum. Both of which Deposits are made subject to the order of W. L. Smith or his Brother."

"Resolved, That the Society accept the Deposit of the Engravings on the above Terms—& that the thanks of the Society be returned to Mr. Smith."

1804. Nov. 16. (Patterson; Duponceau, Peale, Collins, Vaughan, J. B. Smith, Short; Mease, Woodhouse, Fothergill, Barton, Coxe.)

Minutes of Board of Officers for last three months read.

Committee on last three Vols. Batavian Philosophical Society, Haarlem, reported; report ordered to be filed, with a reference thereto in the Books and Catalogue.

Donations: Valentin's Traité de la Fievre Jaune," with letter.

Model of Mugford's Rudder exhibited; referred with his letter to Humphries, Duponceau and Fothergill.

"Occultation of Aldebarran [sic] in the Disk of the Moon, Oct. 31, 1793," by De Ferrer; referred to Vaughan, Patterson and Duponceau.

"Facts & Obs. relative to the Beaver of N. A. collected by J. Heckewelder;" referred to Peale, Collins and Mease.

"On a number of the Pernicious Insects of the U.S.," for the Magellanic premium; Motto: Psalm CV., verses 34, 35. Partly read and referred to Board of Officers.

"Table &c to a useful improvement in Navigation & Surveying," for the Magellanic premium; signed Cc. b. R. with sealed letter; read as far as practicable and referred to Board of Officers.

"Obs. & Exp. on the extraordinary degree of Cold at Northampton, Jan. 1776," by Dr. Fothergill; read and referred to Woodhouse, Mease and Coxe.

1804. Dec. 7. (Patterson; Du Ponceau, Vaughan, Collins, Humphreys, Wheeler; Barton, Seybert, Fothergill, Hewson, Collin, Mease, Shippen, Currie, Church, Wistar, James.)

Board of Officers reported on the two Magellanic premium papers which with the report were ordered to be filed.

Magellanic surplus fund: Board of Officers reported the following rules, which were adopted:

- 1. The surplus Magellanic Premium may be awarded at such stated meeting of the Society as shall be agreed to, at a previous stated meeting, due notice being given thereof to the Members.
- 2. Every Communication which shall have been offered with a view to the Magellanic Premium and to which the same shall not have been awarded, shall, (except such as the Society shall not think at all worthy of Notice) be again taken into Consideration with a view to the awarding of the surplus Premium, and if such Communication shall, at such meeting be thought within the general View of the Donation & to be sufficiently valuable to deserve a public Reward, a Surplus premium may be awarded to the Author thereof.
- 3. The Surplus premium shall consist of a gold Medal of the Value of not less than Twenty dollars nor more than Forty-five Dollars engraved with a similar device to that of the original premium, except that it shall contain the Words "Extra Magellanic Premium" or at the Option of the successful Candidate the Value of such Medal in Money accompanied with a Diploma on Parchment with the Seal of the Society.
- 4. All the Rules and Regulations concerning the Application for the awarding of the original Magellanic premium shall be adhered to in the case of the Surplus Premium, in so far as they are not hereby modified or derogated from; unless in very special Cases for the rewarding of some essentially useful discovery or Improvements, two thirds of the Members of the Society present at a Meeting appointed for the awarding of the Surplus Magellanic Premium, shall, by their Votes taken by Ballot or otherwise direct.
- 5. The Society shall propose and publish as often as they think proper such a Number of Subjects as they shall think fit, to which they shall call the Attention of the Candidates for the original & surplus Magellanic premiums, and invite their Communications thereon; informing them at the same time since that altho' Communications on such Subjects will be acceptable to the Society, yet they shall not entitle their Authors to a preference over more meritorious Communications on other Subjects, equally within the Strict or general view (as the case may be) of the Magellanic Donation.
- 6. Your Committee are farther of Opinion that the surplus premium ought not to be exclusively applied to actual Inventions or Improvements, but may also extend to such valuable Communications within the general view of the Donation, as may lead to useful Discoveries, Inventions or Im-

provements, & that they therefore recommend the Resolution of the $19^{\rm th}$ October with a view to altering it accordingly.

Jn. Vaughan, Secretary to the Board of Officers.

PHILADA 5 Decr. 1804.

Clay's paper reported worthy of publication in the Transactions.

Dunbar's Appendix reported well worthy of publication. Ferrer's Occultation of Aldebaran, reported for publication.

Heckewelder's Beaver paper, reported entitled to a place in Vol. VI.

Donations: Furlong's Coast Pilot, third edition, 1800; Payne's Geography, 4 Vols. 8°, 1800; Wilcocks' Roman Conversations, 2 Vols second edition, 1747; Marat's Recherches, 1780; Supplement to Encyclopedia by Dobson, 3 Vols. 4°, 1803; Book-Catalogue Medical Society, London, 1803; Du Ryer's Alcoran, in English, 4°, London, 1649; Henry VIII's Assertion of the Seven Sacraments, 8°, 1688; "A memorial from the French in answer to that of the English Ministry relative to the War of 1755, including George Washington's Journal, Phil., 1757; an account of the discovery of the first five skeletons of the Mammoth on the Ohio, supposed to be written immediately after the Lancaster Treaty of 1762, by James Logan Esq, or at least drawn up from Materials communicated by him, handed to Dr. Barton by Mr. Jos. P. Norris. This has been published in Dr. Barton's Med. & Phys. Journal No. 1, but being a curious Document is directed to be transcribed into the Book of Communications."

Stroynowski's letter (translated), Wilna, September 27, 1803, concerning the renovation of the University, was read. Alexander's Edict, and Extracts from the Statutes, accompanied the letter. A set of Transactions American Philosophical Society ordered to be sent to Wilna University.

Librarian instructed to send Jos. Willard's Certificate of Membership to his widow in Boston, per Mr. Nichols.

Purchases "on very low terms," by Mr. Vaughan, accepted at cost price, with thanks: Clarke's Progress of Mar. Disc. up to 1498, Vol. I and Atlas, 1803, \$2.40; Spalanzani's Travels, 4 Vols. 8°, 1798, \$3; Busching's Geography, 6 Vols. 4°, 1772 \$5.40; Chomel's Abrégé, 8, 1780, \$1; Dict. de l'Acad. 2 Vols. 4° (in one) l'an 7, \$6; Bonnet's Œuvres, 8 Vols. 4°, Neufchatel, \$20; Des Barres' 22 fol. Charts of the Coast of New England; and 68 of Nova Scotia, fol. Lond., 1778, \$7; Peyrouse's Voyage, 3 Vols. 8°, and fol. Atlas, \$9; Baretti's Span. Dic. 4°, 1800, \$5.50; Hooper's Recreations, 4 Vols. 8°, 1775, \$5.75; Tales of a Parrot \$1; 3 lots of pamphlets, \$1.10; Winterbottom's History America, 3 Vols. 8°, New York, 1796, \$4.40 = \$72.75.

Also; a thermometer, barometer and hydrometer, united by Gilkerson, London, \$13.50; and a box of curious shells, \$9.10.

Secretaries and Librarian to make arrangements for Barton's Eulogium on Priestley.

1804. Dec. 21. (Patterson; J. B. Smith, Duponceau, Collins, Vaughan, Hare, Short, Peale; Wistar, Fothergill, Collin, Barton, Mease, Church, Hewson, Currie, James.)

A Lion's Mouth reported ready for use.

Committee on Eulogy on Priestley reported January 3, as the date, and perhaps the First Presbyterian Church on Market street, as the place. Librarian to give public notice. Invitations to be sent to the Clergy, Courts, Council, Foreign ministers, &c., &c. [List given.] Cards to be sent. Committee continued.

Donations: Bath Society Letters and Papers, 9 Vols, 8°, 1783, 1799; Smell's Thes. Med., 2 Vols. 8°, 1778; a col, lection of early Pennsylvania Almanacs, 1720 and 1748-edited by Franklin and others; Wilson's Works, 3 Vols, 8°, Philad., 1804; Shells and Corals from Sumatra, presented by Capt. And. Newell, of Boston; Denon's Egypt, 2 Vols. Imperial folio, presented by W. McClure.

Magellanic Premium: On ballot, "no premium was adjudged to the two first [papers], but the Premium was unanimously adjudged to the piece on a 'number of the pernicious Insects of the U.S.,' and the sealed Letter being opened, it appeared to have been written by D^{r.} Ben. Smith Barton of Philada."

"Resolved, That the author of the Paper signed C. c. br. be allowed to withdraw the said paper."

Librarian to notify members to attend at the Hall preparatory to hearing the Eulogium on Priestley.

1805. Jan. 3. (McKean, Yrujo, Short, De Foronda, Fothergill, Shippen, Wistar, Patterson, Bishop White, Blackwell, Barton, Mease, James, Coxe, Hewson, Duffield, Church, Currie, M. Bartram, J. B. Smith, J. R. Smith, Vaughan, Mifflin, Andrews, Hare, Collin, Duponceau, Davidson, Johnston.)

Procession from the Hall to the Church.

After the Oration, thanks voted to Dr. Barton and a copy for publication requested. Thanks also voted to the Trustees of the Church.

END OF VOLUME OF MINUTES.

1805. Jan'y 4. Between 2 and 5 p. m. ("Present: Drs. Collin, T. C. James, Hewson, Coxe, Barton, Seybert, Woodhouse, Messrs. Vaughan, Duponceau [sic], Patterson, Hare, Short.")

Judges: James, Collin, Vaughan; Secretaries, Du Ponceau [sic], Hewson.

ELECTION OF OFFICERS.

President—Thomas Jefferson.

Vice-Presidents-Wistar, Patterson, B. S. Barton.

Secretaries - Seybert, James, Coxe, Hewson.

Councillors—Woodhouse, Duffield, Shippen, Collins.

Curators-Peale, R. Hare, Jr., Jno. Church.

Treasurer-Vaughan.

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1805. Jan'y 18. (Patterson; Drs. Mease, Hewson, Collin, Barton, Church, Wistar, Fothergill, James, Seybert; Messrs. Allisson [sic], Collins, Vaughan, Hare.)

Donations: English Translation of P. Ramus Geometra; a model of a Life Buoy, with description by T. Hamilton; Fothergill's Cautions; Girle's sermon; An. Report Royal Humane Society, 1804. Thanks ordered to T. Hamilton and A. Fothergill.

Model of Life Buoy referred to Committee on Mugford's rudder.

Parker's bill for making an eight-day time-piece, \$74.84, and for repairing a time-piece, \$2.50, ordered to be paid.

Barton's Essay on Pernicious insects returned for alterations desired by the author.

Committee to arrange T. P. Smith's minerals, discharged, and Dr. Seybert appointed.

S. R. Demaree's letter on the English Alphabet read and referred to Duponceau, Fothergill and Dr. Barton.

Eulogium on Priestley ordered in the next Vol. Trans. Jefferson's letter read acknowledging re-election.

Vaughan elected Librarian, viva voce.

Election of nine new members: John Maclean, Professor Natural Philosophy and Chemistry, College of New Jersey; Ed. Miller, M.D., New York; Revd. J. Prince, Salem; Captain W. Jones, Philadelphia; Charles Smith, Lancaster; W. Hawes, M.D., London; S. Moore, Philadelphia; Frs. Adrian Van der Kemp, Oneida county, New York; Ben. Silliman, Professor Chemistry and Natural History, Yale College, New Haven.

1805. Feb'y 1. (Patterson; Hewson, Moore, Fothergill, Seybert, Marquis de Cassa Yrujo, Vaughan, Duponceau, J. B. Smith, Collins, Humphreys.)

Committee to arrange the shells discharged, and Peale appointed.

Donations: Caldwell's Medical Theses; Minerals chiefly

from Elba, and letter from J. D. Clifford; "Rock crystal encrusted upon a ferruginous stone, found in the City of Washington." Thanks ordered.

Minerals of the Society to be arranged and catalogued by Dr. Seybert as he shall think best.

Dr. James permitted to keep out for three months seven Vols. of French Encyclopædia relating to Medicine; Vaughan to take out No. 93 Journal des Mines; Seybert to keep out Gallitzin's Dictionary of Mineralogy.

T. Arneats' model to prevent leaks in the roofs of houses,

and description presented for inspection.

1805. Feb'y 15. (Patterson; Fothergill, Mease, Hewson, Moore, Wistar, Barton, Seybert; Duponceau, J. B. Smith, Vaughan, Peale.)

Report on Mugford's rudder, read, and first resolution adopted; second postponed; notice to be given, according to rule of December 7, 1804.

Report on Demaree's letter read and adopted. A copy to be sent to Jefferson.

Donations: Schæffer's Sämtliche Papierversuche; three specimens lead ore from Perkiomen creek; engraved portraits of Rush and Barton by Haines. Thanks.

Duponceau to analyze Schæffer's "publication."

P. Legaux's letter and all Meteorological papers now in possession of the Society to be reported on by Duponceau, Wistar and Vaughan.

1805. March 1. (Patterson; Fothergill, Hewson, Coxe, Mease, Wistar, Seybert; Peale, Jones, Vaughan.)

Report on Legaux's letter read and adopted.

Committee of November 2, 1804, reported that it had informed "Mr. Smith that the Society accepted the Trust deposit of Engravings."

Robt. K. Lorrey's paper on Silk Worms, read and referred to Mease, Coxe and Collins.

Donations: Plan de Paris, 20 planches F.; Spalding's bill of mortality for 1804; F. L. Norden's travels in Egypt. 1757; G. Baron's Principles of Commerce; Facts and arguments.... utility of Inland Navigation in America. Thanks to Duponceau and Baron.

Vaughan's replacing a miscarried Vol. IV, Transactions for the National Institute of France, approved.

Mugford's Temporary Rudder; second resolution again postponed.

1805. March 15. (Dr. Barton; Shippen, Mease, Moore, Seybert, Wistar, Duponceau, Collins, Vaughan, Gilpin, Peale, Patterson, Nichols.)

S. Webber, the Prince of Peace, and Dr. McClean acknowledged receipt of their certificates.

Donations: Webber's Mathematics; Portrait of R. Price, D.D.; First Report President and Directors Chesapeake and Delaware Canal Company; Eulogy of Professor Webber on Revd. Jos. Willard. Thanks. Also Journal des Mines; Annales de Chimie and Annales du Mus. Nat. Hist.

Professor Heyne, Göttingen Royal Society acknowledges Vol. VI, p. 1.

Mugford's Rudder; second resolution adopted; \$40 or a medal of that value awarded; Secretary to forward a copy of the resolution, and publish it in the papers; Model and papers referred to Duponceau, Patterson and Mease to publish.

Barton's Eulogium on Patterson to be published in Vol. VI, pt. 2, Transactions.

Decandolle's Essai sur les prop. med. des plantes, received per Du Pont de Nemours, from Paris.

1805. April 5. (Wistar; Drs. Barton, Fothergill, Mease, Woodhouse, Hewson; Messrs. Collins, Gilpin, Smith, Peale, Nichols, Vaughan.)

Board of Officers reported regulations and questions for the

- "Extra Magellanic Fund," which were "adopted for publication."
- 1. The best experimental essay on native American permanent Dyes or Pigments accompanied by specimens.
 - 2. The best means of navigating our rapid rivers against the Stream.
- 8. The best essay on the general natural history of the ranges of American mountains in the country to the East of the river Mississippi.
- 4. The best essay on the natural history and chemical qualities of the Hot and Warm Springs of the United States or of any one of them.

Fothergill and Collins, a Committee to make verbal corrections for the press.

Committee on Silk Worms, &c., reported that a similar essay had been already published in Vol. II, Transactions.

The Librarian and Secretary "to have the communication published in such manner as they may think most eligible."

Donation: Teignmouth's Memoirs of Sir W. Jones, Phil. 1805.

"On the manufacture of cloth from the fur of Seal Skins," from Rob. R. Livingston, with specimens, read and referred to Dr. Mease.

1805. April 19. (Barton; Vaughan, Nichols, Peale, Collins, Wheeler, Patterson, Fothergill, Mease, Hewson, Duffield, Coxe, James.)

A "Chinese Compass," presented by D. Davis, and "Model of a Chinese pump" for irrigation, exhibited by Mr. Vaughan.

The Vice-Presidents to assist the Librarian to prepare Vol. VI, pt. 2, for the press. Librarian to contract with the printer for same.

Dr. Roxburgh's [sic] answer to the Secretary's letter read. Election of a new member: Wm. Tilghman, Esq.

1805. May 3. (Patterson; Nichols, J. B. Smith, Tilghman, Duponceau, Short, Vaughan, Williams, Fothergill, Mease, Hewson, Wistar, Seybert, Barton, James.)

Livingston's letter and Committee's report on it, filed.

Jno. Conrad to print Vol. II, pt. 2; "terms the same as those heretofore made with Miss Jane Aitkin."

Librarian authorized to exchange duplicate minerals.

Donations: Two medical books, Leghorn, 1804.

Publications referred to Wistar and Duponceau to report. Two nodules "abundant in Green River county."

"N. B. Dr. S. Brown [of Lexington, Ky.] calls one Salt Petre Rock, which without any addition of Pot ash makes excellent Nitre. The other he sent in a phial, of which when saturated with Pot ash each pound will yield an equal quantity of Nitrate of Potash." Dr. Brown's letter "was read, accompanying a specimen of fibrous Gypsum and Specimens of Nitrate of Potash and Lime lately discovered in great quantities in Caves in the Neighborhood of Lexington."

A letter and pamphlet, "Pantometry," from John Dawes was read and referred to Patterson and Clay.

Astronomical Observations by Mr. Ferrer, read and referred to Patterson, Nichols, Ellicott.

Dr. Griffiths returned to the Library a French pamphlet on the Epidemic at Orleans in 1785, "which had been placed in his hands some time since."

Royal Society acknowledged receipt of Vol. VI, part 1.

Wm. Vaughan, of London, accepted the American Philosophical Society agency.

Jefferson wrote that N. H. Weinwich, Secretary Royal Society Heraldry and Genealogy, Denmark, had sent him 150 Roman bronze coins, from Augustus to Theodosius "He deposits them with the A. P. S. believing them well worthy its acceptance." Dr. Wistar to answer the letter.

Microscope lent to Dr. Hewson for one month.

French Encyclopædia, Medical part, lent to Dr. James for three months.

Two teeth lent to Dr. Barton for a month to be drawn.

1805. May 17. (Patterson; Mr. Collins, Duponceau, J. B. Smith, Vaughan, Peale, Fothergill, Barton, Mease, Hewson, James.)

Committee on Schaeffer's work on paper specimens continued.

Committee on two Italian books (Fever at Leghorn) continued.

Donations: Pieces of a Tape-worm; Abstract of Documents relative to Louisiana and Appendix; Specimens of Lehigh Coal; of Black Earth, a new coloring substance, from the banks of the Lehigh near Nazareth; of a supposed copper ore from the Lehigh; Saline effervescence from chaly-beate spring near Fort Allen; Indian beads from a female skeleton found on the Delaware shore near Easton, from Dr-Fothergill; also Choix des Mem. de l'A. R. d. Inst. et B. L., 3 Vols. 4°, 1777, presented by Mrs. Mease.

"Chevalier Dannemours' account of the Washita, communicated by the President, is referred to Messrs. Duponceau, Vaughan, Collins," to report, and translate if worthy of publication.

Delambre, Secretary Natural Institute, Paris, acknowledges Vol. VI, part 1.

"Resolved, That the College of Physicians have liberty to accommodate the Agricultural Society* on such terms as they shall mutually agree upon."

1805. June 21. (Dr. Collin; Vaughan, J. B. Smith, Peale, Mease; Dr. Miller, of New York, and Dr. James.)

Dr. Miller's letter of acknowledgment was read.

Ferrer's paper of May 3d reported for publication.

"Dr. Barton returned the Two Teeth from Tyoga & Santee." Dr. Hewson returned the microscope.

Donations: Ventenat's Tableau du Regne vegétal, 4 Vols. 8°; Brisseau-Mirbel's Traité d'Anatomie, 2 Vols. 8°; Volney's Soil and Climate, U. S.: Brown's translation, Phil., 1804; 24 Medical Theses for M. D. in the University, Penn-

^{*} In their hired room.

sylvania. [The list occupies about a page.] Coxe's Phil^a Med. Mus. Vol. I.; Specimens of gold from Cabarrus county, North Carolina, with Jos. Richardson's Assay of part of it at the Mint, 7 dwts. 7 gr.

"A new & simple Method of producing Decisions in certain Cases by the way of Chances," read and referred to Patterson and Nichols.

1805. July 19. (Patterson; J. B. Smith, Peale, Vaughan, Collins, Tilghman, Short, and Drs. Barton, Fothergill, Hewson, Mease, Wistar, Church and James.)

Donations: Soulavie's Memoir. Hist. Louis 16, 6 Vols. 8°; Receuil des pieces trouvés dans l'Armoire de Fer. 3 Vols. 8°; Arnould's De la Ballance du Commerce, 2 Vols, 8°, avec Atlas 4°; Arnould's Système Maritime; Page's Traité d'Econ. Pol. et de Commerce des Colonies, 2 Vols. 8°; Bonnet's Etats Unis, 2 Vols. 8°; Rel. abr. du Voyage de la Condamine; Barbé de Marbois' Etat des Finances de S. Dominique; Obs. Personelles, 4°; Mem. et Obs. 4°; Beaufort's Tableau Stat. de l'Europe, 4 parts, first sheet wanting; Denon's Voyage. dans. Egypt, Londres, 4°, 2 Vols. and 1 Vol. Feplanches, 1802, presented by A. Regnaud.

The Medals [May 3d] were received from Jefferson. Librarian to arrange them with new labels, where wanting, calling any member to his assistance.

"Prof. Ebeling of Hamburgh presented Erdbe-schreiburg und Geschichte von America; 6th Vol. containing the History of Pennsylvania, Hamburgh 1803, 8°." Ebeling's letter was read, saying the Mineralogical Society of Jena still existed, and had received Transactions American Philosophical Society Vol. VI, i, had published a new Vol of its Transactions, and that Professor Lenz was its Secretary.

John Garnett, of Brunswick, New Jersey, presented his Edition of Nautical Almanaes from 1803 to 1807.

Haygarth's Sketch of a Plan to exterminate the Small Pox from Great Britain, mislaid in transmission since 1793, was presented now. It forms Vol. II and III of his Medical Transactions, presented some time past.

Linnean Society, London, acknowledged Vol. VI, i.

Fothergill presented Specimens of Lead ore from the Perkiomen mines, Cubic Pyrites from Lancaster, and wild Indigo.

T. Hamilton presented J. Harris's Lexicon Technicum.

Francis Dacosta's letter and drawing describing the Perkiomen mines, read.

Ferrer's letter describing Solar Eclipse of 26th of June, read.

Patterson's Commentary on Barron's paper on the Power of Numbers was referred to Patterson, Hewson and Nichols.

Humboldt and Biot's pamphlet, Sur les variations du magnetisme terrestre, with a letter from Biot wishing that similar Observations might be made in the U.S., forwarded by Jefferson. Referred to Patterson and Hewson.

Election of a new member: Bushrod Washington, Esq.

1805. August 16. (Wistar; Patterson, Vaughan, Madison, J. B. Smith, Peyrouse, James, Barton, Fothergill, Church, Coxe.)

Committee report on Humboldt and Biot's pamphlet; recommitted "to mature and publish."

Encyclopedia, Medical part, returned by Dr. James.

Committee on Chances discharged, reappointed and requested to report.

Donations: Life of Washington, Vol. IV; Papers on Agriculture (Massachusetts Society for Promoting Agriculture). Thanks voted Mr. Wayne and Ben. Vaughan.

Captain Mugford begs the Society "to give directions for a Medal, in preference to the money offered as the Extra Magellanic premium for his Rudder." Referred to the Treasurer. 1805. Oct. 4. (Barton; Dr. Collin, Peale, Nichols, Vaughan.)

Donations: Mem. R. A. Prussia, 1799 to 1801, 2 Vols. 4°; Zach's Tabulæ, 1792, Gothæ; from B. Dearborn, an instrument invented by him called "a facility for casting interest," with a letter; Annual Report Royal Humane Society, London; Engraved Portrait of Bishop White; an Indian earthen bottle found in upper Louisiana.

"The Society agreed to take from M^{r.} Vaughan Weaver's translation of A. E. Werner's treatise on the external characters of fossils, 8°, Dublin, 1805, cost \$3.00." [On the margin.]

Communication by J. Garnett, on "Interpolations," read

and referred to Vaughan, Patterson and Nichols.

"Essai sur la plus nouvelle des epoques de la nature suivi d'un tableau comparatif de la Basse Louisiane avec la Basse Egypte," communication by Henry Peyrouse, read and referred to Mr. Collins, Dr. Wistar and Dr. Collin.

"Guyton Morveau's Disinfecting apparatus, with materials ready prepared for use, was received thro. Mr. Duponceau from Mons: L. A. Pichon, with extract from a letter from the latter dated Bordeaux, 25 June, 1805."

1805. Oct. 18. (Barton; Dr. Collin, Vaughan, Patterson, Duponceau.

Donations: Transactions Royal Swedish Society, Vols. I to XXV (Vol. III and VI defective), 1780 to 1804, with a letter from Professor Sjoestin, Secretary, promising continuance; Census of Spain; Materials from which the maps of Guthrie's Geography were compiled, presented by M. Carey.

Ellicott's Astronomical Observations presented; referred to Patterson, Vaughan, Hewson.

1805. Nov. 1. (Patterson; Duponceau, Peale, Vaughan, J. B. Smith, Fothergill, Collin.)

Ellicott's Astronomical Observations reported worthy of publication.

Donations, per W. Vaughan: Transactions Royal Society 1801 to 1805; Transactions Linnean Society, VII; from Lafayette, Destutt Tracy's Projet d'Elements de Ideologie, 1 and 2 parts; from Dr. Sam. Brown of Lexington, Kentucky, Cranium, tooth and pieces of bone found in Saltpetre cave; small earthen cup (broken in carriage); a large mass of argillaceous earth; piece of pumice.

Bushrod Washington acknowledges his election.

Ez. Hill's description of the Falls of Niagara (to be published in four months if at all); referred to Barton, Duponceau, Collins.

Dr. Collin offered to translate and read interesting parts of the Swedish Transactions.

Resolution to repeal the law requiring non-resident members to pay \$10 on admission, ordered to lie on the table.

1805. Nov. 15. (Wistar; Collins, Duponceau, Hare, Peale, Vaughan, Fothergill, Hewson.)

Committee on Perouse's paper continued.

Committee on Biott's [sic] paper continued. Committees to be notified to make their reports at the next meeting.

Donations: San Augustin's Compendio Lingua Tagala, Manilla 4°, 1703; Fra Domingo's Vocab. Lingua Tagala, 1794, F. (both from Mr. Peter Dobell, of Canton). Thanks voted. Referred to Barton and Collin.

A box of plants, earths and mineral, from Captain Merewether Lewis, per Jefferson, who wishes the seeds sent to Mr. Wm. Hamilton; Vaughan and Seybert to examine the earths and minerals; resolution requesting Mr. Hamilton to plant the seeds and report the results with descriptions and specimens.

"The Hortus siccus is referred to Dr. Barton" to examine and report.

1805. Dec. 6. (Patterson; Fothergill, Peale, James, Church, Hewson, Barton.)

Committee on Leghorn pamphlet reported it "interesting to medical men."

Catalogue of medals (made by Mr. Vaughan), ordered to be deposited with the medals.

Donations from Mr. F. T. Hassler "lately from Swisserland [sic] & now in this city." A model of Mount Blanc; two horns of the Chamois; a specimen of Feldspar. From Dr. Fothergill; Specimens of Otaheitian cloth, and of British papers composed of cheap materials; List of Officers and Members of the Jennerian Society, with a Comparative view of Small pox, &c.; Extracts on Chimney Sweeping, new method; Constitution, &c., of Society for suppressing the necessity of climbing boys; Hobbesii Vita, 1679.

1805. Dec. 20. (Wistar; Barton, Fothergill, James, Hewson, Collins, Patterson, Vaughan, Duponceau.)

Donations: McNevin's Rambles, 2 editions; Sicard's Cours d'Instruc. d'un Sourd-muet; letter from A. Cretien, with a copy of his "De la Methode Introliptice;" "The skeleton of an Elephant from the Asiatic Society sent by the Martha, accompanied by a letter from Wm. Hunter, Secretary to the Society. The attention of the Society [Asiatic] was carried so far as to pay the freight."

From Jefferson: A Horned Lizard from upper Louisiana. From Dr. Brown, of Kentucky, the head bones of a new animal found in a Saltpetre cave, and a specimen of pure native saltpetre.

The Lizard referred to Dr. Barton for description.

The cave bones referred to Dr. Wistar.

Catalogue of Captain Lewis' donations reported by Vaughan. The Insects and two small animals referred to Dr. Barton.

"On the Ice Islands &c.," from Dr. Mitchell, read and referred to Barton, Fothergill and Patterson.

"On the means of destroying insects infesting wheat," by General Jones, read and referred to Barton and Mr. Collins. Acarius' work on Lichens bought for \$5 from Dr. Collin. Committee on placing the Elephant, Wistar, James, Vaughan.

1806. Jan'y 3. Between 2 and 5 p.m. (Collin, Barton, Duffield, James, Hewson, Vaughan, Patterson, Duponceau.)

ELECTION OF OFFICERS.

President—Thos. Jefferson.

Vice-Presidents—Patterson, Wistar, B. S. Barton.

Secretaries—Seybert, James, J. R. Coxe, Hewson.

Councillors—Rush, Ellicott, N. Collin, Tilghman.

Curators—Peale, Hare, Jno. Church.

Treasurer—Vaughan.

1806. Jan'y 17. (Patterson; Tilghman, Collins, Short, Hare, Vaughan, DuPonceau, Peale; Drs. Fothergill, Duffield, Collin, Wistar, Parke, Barton, Church, Hewson, James.)

Committee on the Skeleton of the Elephant reported, recommending it being "placed in the same room with Mr. Peale's Mammoth, with a handsome and suitable Inscription to show that it was presented to this Society by the Asiatic Society Information to be given of this Arrangement to the Society of Calcutta. Mr. Peale perfectly understands that it is not to be advertised, and is to be at all times accessible to the Members, & he further agrees that no charge shall be made to those Persons whom the Members of the Society may bring to see it." Report adopted and Committee empowered to carry it out.

Dr. Wistar, reported that the Cave bones "prove to be the Bones of the Head of the Pecary [sic] of S. America, as described by Daubenton in Buffon's works."

Mr. Duponceau reported, that the Italian pamphlet "contains nothing of importance, except a mode of protecting Books from Worms, which simply consists in mixing Oil of Turpentine with the paste used in binding, which in dry-

ing, the writer says, forms a Vitreous Substance with the paste."

Donations: Trans. Am. A. II. 2; De la Croix's Review of the Constitution of Europe and United States, 2 Vols. 8°, London, 1792; Romans (Bernard) 8°, N. Y., 1775, Vol. I; Smith's History of New Jersey, 1765; DeLuc's Lettres, 5 Vols. and Sur la Suisse; Kent's Hints, 1775; Palladi's Architecture, Ware's Trans. Lond. F.; Houghton's Husbandry, 4 Vols. 8°, 1787; Homanius' German Atlas, F. 1753; Charlevoix's Travels, 1763; du Pratz's Louisiana, 1774; Scull's Map of Pennsylvania, 1759; Haussner's Phraseologia, 1798; Baron Le Hontan's New Voyages, 1703.

John Vaughan elected Librarian for the year.

Election of 5 new members: M. Destutt Tracy; Olof Swartz; Martinus Van Marum, M.D.; Jos. Cloud, of Philadelphia; and the Rev. Sam. B. Wylie, of Philadelphia.

1806. Feb'y 7. (Barton; Peale, Vaughan, Cloud; Drs. Wistar, Fothergill, Hewson, Collin, Seybert, James.)

Donations: Catechism of Luther, translated into the American Virginian Language, Stockholm, 1697; Medical Inquiries and Observations, by B. Rush, 4 Vols. 8°, 2d Ed. Phil. 1805; and a box of Minerals, mainly volcanic productions, procured at Naples by R. R. Livingston.

Jefferson's acknowledgment of election read, containing also a communication:

"On the Salt Petre Caves on Crooked Creek, &c in Ky & the mode of obtaining Nitre from them" by Dr. Brown; referred to Seybert, Fothergill and Woodhouse. "On ice islands" by Dr. A. Fothergill, read and referred to Patterson, James and Hewson.

1806. Feb'y 21. (Patterson; Peale, DuPonceau, Wylie, Vaughan, Barton, Shippen, Hewson, James.)

Committee on Fothergill's paper reported it "not unworthy

of publication, but would recommend to the Author to revise it and retrench such parts as relate to the Communication from D^{r.} Mitchill [sic] on the same subject, as they deem it improper to publish a Paper containing strictures on any other Paper in the same Volume, or communicated to the Society & still unpublished."

Donations: Two specimens American Slate, Corallines, &c.; Guide to Puzzuoli; Bryan Edward's History British West Indies, &c., 4 Vols. 8°, and Atlas; Caldwell's Medical Thesis, Vol. II, 8°.

Wm. Hawes' acknowledgment of election read.

"On the Pillars of Hercules" in French, "by an inhabitant of Upper Louisiana," read and referred to Barton, Du-Ponceau and Wylie.

1806. March 7. (Wistar; Collin, Fothergill, Barton, Hewson; Vaughan, Duponceau, Wylie, Cloud, Peal, Patterson, Tilghman.)

Committee on Essai, &c., by Perouse, read November 4, 1805, reported. Report accepted.

Committee on Pillars of Hercules, reported. Report accepted.

Donations: Sonnini's Travels, 4°, 1800; Staunton's Account... China, 2 Vols. 8°. Phil. 1799.

"On Ice Islands" by Dr. Fothergill, read and referred to Patterson, James and Hewson.

"Dr. Barton exhibited a piece of manufactured Copper found in an artificial Mound in Cincinnati, Ohio, March, 1804 (and taken from the same Tumulus with the Specimens described by Mr. Sargeant, 4th Vol. of Trans.), with a History of its Discovery, by Mr. Drake."

"The Society resolved, that the Stove now in the Meeting Room be removed and the Fire Place opened on the Rumford Plan at the Expence of the Society." Vaughan and Patterson to see it done.

1806. March 21. (Barton; Patterson, J. B. Smith, Chas. Smith, Cloud, Peale, de Ferrer, Vaughan, Drs. Collin, Church, Fothergill, James.)

Committee's report on Brown's Salt Petre Caves, read and accepted.

Donations: McMahon's American Gardener's Calendar; Specimens of Impressions of shells from the mountainous parts of Pennsylvania and New Jersey, from Dr. Hulings; Beaufort's Grand Porte-Feuille Politique, F°. Paris, 1789.

"On Eclipses," a letter from J. J. de Ferrer, read and referred to Patterson, Vaughan and Hewson.

"Sketches of two supposed Mexican Monuments presented by M^{r.} de Ferrer, who is requested to furnish the Society with some account of them."

Patterson and Cloud to examine the Treasurer's accounts.

1806. April 4. (Patterson; J. B. Smith, Peale, Cloud, Wylie, Collins, Vaughan, Tilghman; Drs. Shippen, Barton, Fothergill, Hewson, James.)

Committee on Mitchell's Ice Islands,* presented report; adopted. Paper returned to the author at his request.

Donations: Beaujour's Tableau de Commerce, 2 Vols. Jefferson's Presidential Message Communicating Discoveries in exploring Red river, &c. Catalogue of Medical Hospital Library; Nova Acta Petropol. XIV; DuRouchail's Series of Heads of Kings of France engraved on Wood, presented by the artist through Mr. DuPonceau.

"Drawing & Fac-simile of the Tomb of Ferdinand Columbus, son of Christ. Columbus," in a letter from Wm. Tatham to the President; referred to Barton, Tilghman and Vaughan.

"Account of the Volcanic Productions, presented by Robt. R. Livingston to the Society, Feb. 7, 1806," read.

1806. April 18. (Patterson; James, Barton, Fothergill, Hewson, Seybert, Collin; Vaughan, Cloud, Collins, Jones, Peale, Short, Wylie.)

[•] Dec. 20, 1805.

Jones' paper on Cimex, reported worthy of publication. Report adopted.

Committee on Hill's paper on Niagara reported that an abstract is worthy of publication. Committee requested to furnish the abstract.

Donations: Watson's Complete History of the Construction of Ships, 1790; Robertson's History of America, 4 Vols.; Wynne's Gen. History of British Empire in America, 2 Vols.; St. John de Creve-Cœur's Lettres d'un culterateur Americain, 3 Vols. 8°, 1787.

Collin, Wiley, James, "to revise our former publications and report any errors & omissions which may have occurred therein."

Election of two new members: Joseph Sansom of Philadelphia; Wm. Dubourg, D.D., President of St. Mary's College, Baltimore.

1806. May 2. (Barton; Patterson, J. B. Smith, Peale, Garnett, Cloud, Short, Vaughan, Tilghman, Washington, Fothergill, Shippen, Hewson, Collin, Wistar, James.)

Report of Committee on Tomb and fac-simile of inscription on the tomb of F. Columbus, read, and not agreed to.

Report of Committee on Fothergill's Ice Islands read and laid on the table for further consideration.

Donations: Früchtenicht's Rituale Tranjambericum (Tranquebar).

"On the importance of a correct Table of Population" (Births, Marriages, Burials, Diseases), by A. Fothergill, M.D., read and referred to Collins, James and Collin.

Letter from G. Barron, mentioning his intention of communicating a New System of Navigation to the Society next June. Patterson and Wiley appointed to receive it.

Treasurer directed to procure the following books: Mechanique Celeste; Connoissance des Temps; Bury's Lunar Tables; Lalande's Abrégé de Navigation; Berlin Ephemeris; De Sejours' Théorie des Corps Celestes.

Admission fee of \$10; to be considered at the next meeting, and notices to be given.

1806. May 16. (Barton; Peale, Sansom, Vaughan, Collins, Ferrar [sic], Jones, Gilpin, Patterson, Cloud, James, Shippen, Fothergill, Seybert, Collin.)

Treasurer's bill for Mechanique Céleste, 4 Vols. \$24; Conn. des Temps 1792 to 1805 (1801 and 1802 excepted) at \$1 per Volume = \$12, agreed to.

Auditing Committee reported in the hands of John Vaughan, Treasurer, £165 "6"11 of the general fund; £142"13"6, and 33 shares Insurance stock of North America Company, of the Magellanic Fund; and £25"6"9, and \$200 eight per cent stock belonging to the Rittenhouse fund.

Donations: Luisçius' Description d'une Soude de Mer, ou Bathometre, 4° ; the Rembrancer, 13 Vols. 1775 to 1782; "A collection of interesting authentic Papers from 1764 to 1775, the last two presented by $M^{r.}$ J. Vaughan."

Dr. Collin to report an analysis of the "Description d'une Soude de Mer," and "report concerning an illuminated book in Latin."

Initiation fee: "Resolved, That the following addition be made to [Sect. 7. Art. 1.] Bye laws; Provided nevertheless, that even with respect to non-resident members in the United States, the payment of Ten Dollars on being elected shall be optional with them."

1806. June 20. (Patterson; Fothergill, Barton, Mease, S. Duffield, Seybert, James, Hewson, Collin, Wistar; Messrs. J. B. Smith, Cloud, Vaughan, J. R. Smith.)

Committee to converse with Mr. Barron reported "that he had promised to draw up a memoir respecting his intended publication on Navigation."

Donations: [A page and a quarter of closely written titles of recently published books, 1790 onwards; and Specimens of Platina and minerals from Ireland.]

"On the Vermillion color of the Blood and on the different colors of the metallic oxides, &c," by Sam. F. Conover, M.D., read and referred to Patterson, Mease and Seybert.

Treasurer ordered to "purchase of Mr. Hasler the Volumes necessary to complete the Trans. French Acad. Sci. of which the Soc. possesses 89 Vols. the bequest of Dr. Franklin."

Dr. Wistar to communicate with Jefferson "concerning certain bones supposed to be at present in the city of New Orleans & which were found" [blank].

1806. July 18. (Wistar; Barton, Seybert, Collins, Peale, DuPonceau, Vaughan.)

Treasurer reported his purchase from Mr. Hassler of 14 Vols. L'Histoire, &c., 1666 to 1699; 7 Vols. 1699, 1718, 2 p., 1718, 1782, 1786, '7, '8, '9; 11 Vols. Mem. 1750 to 1786; 9 Vols. Receuil 1720 to 1770; 7 Vols. Machines, 1666 to 1754; 9 Vols. Table generale 1660 to 1780; in all 57 Vols. [See some notes in margin.]

Donations: Gregoire's Essai historique, 4°; a Collection of Coins and Medals from Jefferson; Gruner's Map of Swiss Glaciers; also 53 modeles de la Christalographie d'apres

Romé de l'Isle, from R. F. Hassler.

"On the American Antelope," by Ch. W. Peale, with a drawing. "The skin, horns &c. had been received by the President from Louisiana & presented by him to Mr. Peale for his Museum." Referred to Barton and Collins.

No election of new members for want of a quorum.

1806. Aug. 15. (Patterson; Barton, Seybert, Fothergill, Mease, Hewson, Coxe, Ferrer [sic], Cloud, Peale, Vaughan, Collin.)

Fothergill's paper on Tables of Population. Report read and recommitted.

Conover's paper. Reported worthy of publication. Report accepted.

Donations: Barton's pamphlet on the Opossum; Primitiæ Orientalis, Vol. II and III in one, with some of the Theses of the Bengal College, Fort William, in Oriental languages, with translations; copies of Mahratta Gospel of Matthew, Bengalese hymn book, Catechism, various Hindoostani tracts; Kunze's [D. and P. of Divinity], Table of eclipse of 16 June, 1806.

"Obs. on the eclipse of 16th June last," by A. Ellicot re-

ferred to Patterson, Ferrer and Clay.

"Obs. Eclipse, by Garnett, near Albany, with calculations," by J. J. de Ferrer, referred to Patterson and Clay.

"Account of same Eclipse," by W. Dunbar; referred to

Patterson, Ferrer and Clay.

"On the dangerous effects of sleeping on the damp ground," by A. Fothergill; referred to Collins, James and Collin.

1806. Sept. 19. (Wistar; Barton, Fothergill, Mease, Moore, Collin, Du Ponceau, Vaughan, Peale, Cloud, Hewson, James.)

Committee on Fothergill's paper reported it worthy of publication.

Committee on Peale's description of an American Antelope reported it worthy of publication.

Dr. Wietar reported, that Jefferson would attend to the bones found in Ohio.

Dr. Barton reported that he would prepare notes to Mr. Heckewelder's paper on the Beaver, for the Committee on the original paper, Peale, Mease, Collins.

Donations: A model of Homer's head, from a bust found in Egypt, presented by M. Du Ronchail, per Du Ponceau; Plowden's Review of the State of Ireland, 5 Vols. 8°, 1805, Phila., B. Graves, publisher; Roscoe's Leo X, 4 Vols. 8°, 1806, Phila., S. Bronson, publisher; Pearson's Essay on Innoculation, translated by Staunton into Chinese, "& the name of Gneuque, one of the Hong Merchants, added, as re-

sponsible for the publication;" Specimen of Loadstone; Michaux's Memoir sur la naturalization des arbres forestiers de L'Amerique Sep.; Act to incorporate Medical Society, New York.

Meteorological Observations by D. Wilson, of Lewis Town, Delaware; presented and referred to Moore and Patterson; who are requested to make out a list of all the Meteorological Observations in the possession of the Society.

Fothergill's paper on Ice Islands called up and referred to

a new Committee; DuPonceau, Cloud and Moore.

"On Yellow Fever," by De Foronda; Cure discovered by Lafuente; Specimen of Guaco juice, said to be a cure for snakebites. Memoir referred for translation to DuPonceau and Vaughan.

1806. Oct. 3. (Patterson; Collins, Peale, Vaughan, Cloud, J. B. Smith, Governor McKean, Marquis d'Iruejo [sic], Drs. Mease, Collin, Barton, Fothergill, Hewson.)

Committee on Ellicott's, Dun's and Dunbar's Eclipse Observations and Dunbar's Longitude-finding, reported them worthy of publication. Adopted.

Donations: Conversations on Chemistry, 2 Vols.; Howard's Spher. Geom.; Anderson's General History of Quadrupeds.

The translation of Fuente's and Foronda's papers read and referred to Wistar, Collin and Barton.

Dr. Barton said that Rd. Barton, Frederick county, Maryland, had destroyed smut in wheat by steeping the grain in brine and sprinkling it with lime.

Tooth of the Mammoth from Montgomery county, Virginia, exhibited by Dr. Barton.

Shark's teeth loaned to Dr. Barton for one month, "to have drawings taken of them."

Committee report on Fothergill's Ice Islands, read and adopted; and Dr. Fothergill's request to withdraw the paper, granted.

1806. Oct. 17. (Barton; Gilpin, Collins, Duponceau, J. B. Smith, Vaughan, Peale, Marquis d'Yrugo [sic], Drs. Mease, Woodhouse, Bache, Seybert, Wistar, James, Collin, Fothergill; Patterson.)

Donations: Coxe's American Dispensatory; Medical Museum, Vol. II.

Dr. Bache promised a paper on the Os hyoides, &c.

Brown's and Jefferson's letters about the Mammoth bones, read and referred to Wistar, Peale and Vaughan, to correspond also with Dr. Goforth.

A communication from Mr. Dunbar read and referred to Patterson, Wiley, Hewson.

Election of three new members: S. F. Conover, M.D., Philadelphia; Franc. de Borja Garcas Stockler, Sec., R. S. S., Lisbon; Adrian Giles Camper, Anatomist of Franceker in Friesland.

1806. Nov. 7. (Wistar; Patterson, Vaughan, Cloud, Mease, Collin, Fothergill, James, Hewson.)

Dunbar's paper reported worthy of publication.

Donations: Mem. R. A. H., Madrid, Vol. IV; two silver medals of Washington, as Commander-in-Chief, and as President, presented by Jos. Sansom.

Receipt of Transactions VI, i, from R. A. H., Madrid.

Jefferson's letter, with Guyton Morveau's Treatise on Disinfecting Air, 3d Paris edition, 1805, was referred to James, Hewson and Cloud, to "consider the proper means of carrying into effect the proposition contained in the President's letter."

"Description of a Machine for forcing a boat or larger vessel against a current," with a letter from John Hale [siv], of Harford county, Maryland; referred to Collin, Patterson and Mease.

1806. Nov. 21. (Patterson; J. B. Smith, Cloud, Duponceau, Peale, Vaughan, Fothergill, Woodhouse, Mease, James, Wistar, Hewson.)

Committee on Hall's [sic] paper [Nov. 7], continued. Committee on Jefferson's letter, continued.

"Com. on La Fuento's [sic] treatise on the successful use of Peruvian Bark in Yellow Fever report the work as extremely interesting to medical men, & propose that it should be transmitted to the Editors of the Med. Journals for publication." Vaughan to effect this.

Donations: Atlas Antiquus, Danvillianus, F°, Nurem., 1784; Part of the lower jaw-bone of a mammoth; two preparations of the eyes of a goose.

1806. Dec. 5. (Patterson; Tilghman, Duponceau, Vaughan, Marquis Yrojo [sic], Mease, Connover [sic], Fothergill, Seybert, Wistar.)

Committee on Guyton Morveau's Book and Jefferson's letter reported. Report adopted, "with a request that the Board of Health communicate the result to the Society."

Report on Hall's Machine for propelling boats adopted. Ferrer's Eclipse paper reported worthy of publication. Adopted.

No papers this year for the Magellanic Premium.

Dr. Mitchell's paper on Ice Islands reported returned to him.

Donations: Five books of Chinese painting in Water Colors, from Captain Jones; Boudoin's Hist. des Incas, 2 Vols. 12mo, Amst., 1715; a medal of the famous Chouan, Georges, from M. Du Rouchail, per Duponceau.

French metre and kilogramme, inspected and stamped by the Committee Public Safety in France, exhibited by Mr. Vaughan.

Vaughan to purchase of Mr. Hassler, some Vols. Transactions Acad. Berlin.

Wistar reported that he had written to Dr. Goforth.

1806. Dec. 19. (Patterson; Short, Williams, Vaughan; Drs. Fothergill, Mease, Conover, Woodhouse, Mease (?), Hewson.)

Dr. Williamson requesting his paper (or a copy) on the fascinating power of serpents, a copy was ordered to be sent to him.

1807. Jan'y 2. (Short Cloud, Collins, DuPonceau, Collin, Duffield, Buchanan, Seybert, Williams, Tilghman, Jones, James, Barton, Mease, Hewson, Vaughan, Patterson, J. R. Smith, Wiley, Wheeler, Peale.)

Williams and Peale, Judges; and Vaughan, Clerk.

ELECTION OF OFFICERS.

President—Thomas Jefferson.

Vice-Presidents-Wistar, B. S. Barton, Patterson.

Secretaries—Seybert, Hewson, J. R. Coxe, James.

Councillors—Bishop White, Duponceau, Williams, Short. Curators—Peale, Hare, J. R. Smith.

Treasurer-Vaughan.

"Ordered that the List be published in two of the newspapers, & that notice be given to the President of his re-election."

1807. Jan'y 16. (Williams in the Chair; Jones, J. B. Smith, J. R. Smith, Collins, Vaughan, Cloud, Patterson, Allison, Duponceau; Drs. Counover [sic], Mease, Woodhouse, Collin, Moore, Seybert, Duffield, Barton, Fothergill, Wistar.)

Jefferson's acknowledgment of election reported.

Donations: From the Œcon. Soc., Bern., Samml. der Schweitz. Ges. Bern, 4 Vols. 1760 and 1761; Abh. u. Beob. Œc. Ges. Bern, 17 Vols. 8°, 1762 to 1773; Neue Samm. Œc. G. Bern, 3 Vols. 8°, 1779, 1782, 1785; Neuste Samm. Œc. G. Bern, Vol. I, 1796; Gellert's Met. Chemistry, 1776; James' Trans. Theory and Practise of Gardening, 4°, 1712; Compleat Farmer, F°, 1793; Ext. U. S. Military Philos. Soc., 1806; Swammerdam's Hist. Insectorum, F°, 1737; Holme's American Annals, 2 Vols.; Hales' Static. Essays, 2 Vols.,

1733; O'Gallagher's First Principles of Nature, 2 Vols. 8°, 1786.

"Petrifactions on the Falls of the Ohio, near Louisville," by Jon. Williams, in a letter to Dr. Mease; referred to Mease, Seybert and Cloud.

Election of two new members: Mahlon Dickerson, Phila-

delphia: Iréné Dupont, of Wilmington, Delaware.

1807. Feb'y 6. (Patterson; Fothergill, Mease, Connover, Barton, Moore, Seybert, Wistar, Hare, Vaughan.)

Committee on Williams' Petrifactions, continued.

"On the importance of a correct Table of Population," with a Supplement by Dr. A. Fothergill; referred to Connover, Collins and Cloud.

Head of Arctomys (Maryland Marmot), found in Green Briar county, Virginia, sent by Col. J. Stewart per Jefferson.

"A cheap method to build Locks for Inland Navigation," by Ch. Varlé; referred to Latrobe, Peale and Hewson.

"An easy method to reduce Calcareous matters into Lime," by Ch. Varlé; referred to Hare, Cloud and Mease.

Model of a machine for spreading Gypsum, invented by M. Wikoff, paper Maker, below Chester, exhibited by Mr. Peale.

Auditing Committee: Patterson and Cloud.

1807. Feb'y 20. (Dallas, Cooper, Short, Jones, J. B. Smith, Cloud, Wiley, Vaughan, Mease, Fothergill, Hewson.)

"On the building stone made use of at Washington, & the Sandstone strata near the Potomac," by B. H. Latrobe; referred to Peale, Seybert and Mease.

Standard measures established by the Committee of Weights and Measures of France: description and explanation, by F. R. Hassler, read by Mr. Vaughan, who said "that he considers the above standards as in the offer of the

Society, at any future day at the price at which he paid for them." Referred to Patterson, Cloud and Short.

"On the extreme cold lately observed at Hollowell in the Province of Main" [sic], from a letter to Mr. Vaughan; referred to Wiley, Hewson and Mease.

1807. March 6. (Allison; Vaughan, Wiley, Cloud, J. B. Smith, Dickerson, Patterson, Peale, Conover [sic], Fothergill, Seybert, Hewson, Barton.

Donations: Life of Washington, Vol. V, and Vol. of plates. Letter of thanks ordered to Chev. de Freire for forwarding all the wanting publications of the R. A. Lisbon, via Baltimore.

"Obs. on the Eclipse of June 16, 1806, made at Bowdoin Coll, in the District of Maine," by a member of this Society; in a letter to Mr. Vaughan; referred to Patterson and Clay, with power to print in the volume now in press.

Mr. Vaughan reported the purchase for \$12, of 6 Vols. Gazette de Guatemala (1797–1802); and one Vol. Voyage of the Schooners Sutil and Mexicaná to explore the Straits of Fuca.

Jefferson wrote "that he had adopted measures at his own expense to procure for the Society such of the bones of the Mammoth as should be particularly stated to him as being wanted." Mr. Vaughan explained that Dr. Wistar had returned to the President "a particular account of such bones." Dr. Goforth's letter to Jefferson was enclosed. Thanks to Jefferson ordered.

"On the Yellow Fever," by Dr. Thornton, came with Jefferson's letter, and was referred to Wistar, Hewson and James.

1807. March 20. (Barton; Connover, Hewson, Seybert, James, Shippen, Fothergill, Mease, Wistar, Collin, Peale, Du Ponceau, Dickerson, Vaughan, Cloud, Patterson, Hare, Nichols, J. B. Smith.)

Report of Committee on Fothergill's "Correct Table of Population, that it is advisable not to publish the same," adopted.

Report of Committee on Varlé's "Canal Locks," laid

over.

Report of Committee on Latrobe's "Building Stones," that it be worthy of publication in the Transactions.

Adopted.

Donations: [A long list of pub. R. A. Lisbon.]; Carey's Sanscrit grammar 4°, from the author; Retrospect of discoveries 8°, from Allison; "The Apparatus meant to accompany 3d ed. Guyton Morveau's Treat. Disinfect. Air" (see Minutes of November), received from U. S. Consul Kuhn, at Genoa, per Jefferson; Chinese Almanac; 15 detailed maps of Switzerland [list given], from F. R. Hassler, with Simler's History Switzerland, Zurich, 1722.

"Recherches sur l'Asterie des Anciens &c," par Caire-

Morand; referred to Vaughan, Seybert and Dickerson.

"Obs. relative to the bills of mortality of Phila. & N. York," by the Chev. de Foronda; read and referred to Vaughan, Duponceau and James.

1807. April 3. (Barton; Nichols, Peale, Vaughan, Allison, Fothergill, Hewson, James.)

Missionary W. Carey's letter from Calcutta, dated October 15, 1806, gave information that Dr. Roxborough had sent the Sanscrit grammar presented at the last meeting.

Donations: Larteyrie's "Bêtes a laine," 8°; Hist. de Intro. des Moutons, 8°, 1802; Colleccion . . . R. A. Esp. Madrid, 1799, 12mo; Engraved portrait of L. Euler from the picture in the Pub. Library at Basil; Simpson's Hierog. Animal. Terr. Vol. 4°, 1622; Complete Herbal, 12mo, 2d edition, London, 1707; Madan's letters to Priestley, 12mo, London, 1787; Reports Humane Society, 1 Vol., 1799–1806; Pamphlets; U. S., 1775 '76, 2 Vols.; St. Pierre's Botan. Harmony, 1797.

Further accounts of the cold at Hallowell; read and referred to Wiley, Mease and Hewson.

"Memoranda concerning some vegetable Muscipula," by Dr. Barton, read.

1807. April 17. (Barton; Dickerson, Wylie, Cloud, Lewis, Vaughan, Ferrer, Hare, Patterson, Nichols, Peale, Fothergill, Conover [sic], Woodhouse, Hewson, Collin, Duffield, Mease, James.)

Report of Committee on Cold at Hallowell; read and adopted.

Donations: Med. Mus., Vol. III; Flora Batava, Nos. 17 to 26, with letter from Wenkebach, Sec. gen. Min. Int. Holland, La Haye, Sept. 12, 1806; Lafon's Map of the Territory of New Orleans, &c.

Supplement to Ferrer's Eclipse Observations, 16 June, compared with observations at Madrid and Paris; referred to Patterson and Clay.

Obs. on the Analogy of Spanish and English, referred (for translating from the Spanish) to Duponceau and Vaughan.

Election of six new members; Nath. Chapman, M.D., Philadelphia; J. McDowell, Prov. University, Pa.; Ferd Rud. Hassler, Mathematical Professor Military School at West Point; Geo. Izard, of Pennsylvania; J. Eric Forström, of St. Bartholomew; Jas. Gibson, of Philadelphia.

1807. May 1. (Barton; Ferrer, Hassler, J. B. Smith, Gibson, Duponceau, J. R. Smith, Allison, Short, Vaughan, Nichols, Drs. Fothergill, Conover, Chapman, Hewson, James.)

Donations: Parkes' Chemical Catechism; Collecçao dos prin. Auc. (Brito) R. A., Lisbon, 1806, 4 Vols., 8°; Trans. S., N. Y., Promoting Agriculture, Part 2d, 4°, 1794.

Hassler's letter, acknowledging election, read.

List of names and residences of foreign members to be reported by Barton, Vaughan and Hewson.

"Resolved, That the Disinfecting Apparatus accompanying Guyton Morveau's Work be placed in the Hands of the Board of Health for the purpose mentioned in the Report of the Committee of Dec. 5, 1806."

1807. May 15. (Barton; Patterson, Gibson, Williams, Short, J. B. Smith, J. R. Smith, Vaughan, Drs. Chapman, Fothergill, Wistar, Hewson.)

Report of Committee on Ferrer's Eclipse in favor of publication adopted.

Report of Committee on Caire-Morand's Memoir against its publication adopted.

Committee on List of Foreign Members continued.

Donations: Conglomeration of shells from the high hills of Santee, with a letter from Mrs. Kinloch, Weehaw [sic], South Carolina; Gold and Silver ore from South America; Representation of the late Eclipse, in oils, by E. Ames, of Albany, with letter from S. Dewit. Thanks ordered.

"On the Sun's Eclipse, observed at Albany, June 16, 1806," by S. De Wit [sic]; read and referred to Patterson, Clay and Ferrer.

Two copies of Foronda's several communications to the Society, in Spanish, presented by the author.

1807. June 17. (Patterson; J. B. Smith, Lewis, Peale, Short, Cloud, Collins, Vaughan, J. R. Smith, Dickerson, Nichols, Marquis de la casa Yrugo [sic], Wistar, Barton, Fothergill, Chapman, Hewson.)

Donations: Fabbroni's Bibl. Lettera, Modena, F°; A. Argoli Ephem. 1641–1700, 3 Vols., 4°; Cottineau's Geog. Comp., 2 Vols., 12°; J. H. Alstedii Encyclo., Vols. I and IV, F°, 1630; Iron medallion of bust of Franklin; Economica, 8°, 1806.

"New Theory of the Tides," by Ross Cuthbert, Lower Canada; read and referred to Collins, Clay and J. R. Smith.

"On Light," by B. Schultz; referred to Wistar, J. R. Smith and Chapman.

Izard's letter of acknowledgment read. Specimens of Natural History from the cabinet lent to Captain Lewis.

Mr. Peale, by permission, withdrew his paper on the Antelope, because Captain Lewis would publish a fuller description in his book.

1807. July 17. (Barton; Vaughan, Dickerson, Patterson, Izard, T. Pinckney, Lewis, Wiley, J. B. Smith, J. R. Smith, Peale, McDowal [sic], Fothergill, Mease, Hewson, James, Wistar, Coxe.)

Donations: Transactions Dublin Society, 5 Vols., 1800-1806, and Catalogue of Plants, Botanical Garden; Bentham's Panoptikon.

Dr. Mease offers any specimens from a collection of minerals sent to him by Mr. Donald Stewart, required to complete the cabinet. Referred to Seybert, Mease and Coxe.

Le Chev. de Högelmuller of Vienna's letter to Jefferson, requesting questions deemed useful objects of inquiry in his proposed scientific journey. Referred to Wiley, Seybert and Collin for immediate attention.

Report of Committee on Schultz's paper on Light, was accepted.

1807. Aug. 21. (Barton; Wiley, Collins, Vaughan, Briggs, Collin, Hewson.)

Report of Committee on Fothergill's paper on the dangerous effects of lying on damp ground, read and accepted.

"A letter was received from Mess^{rs.} Dallas and Clymer, a committee from the University, accompanying Chevalier Högel Muller's proposition to the friends of the Sciences & Arts. The Secretary is directed to acknowledge the receipt of the same and to express the thanks of the Society to the University for this mark of their attention and to mention that the Society had already

received similar propositions from the Chevalier on which the order of the Society had been taken."

Dr. Barton added to the Committee on the questions propounded by the Chevalier. Juan Manuel de Ferrer sends from Vera Cruz a box of minerals and 63 Vols. and 4 Nos. of the Journal de Physique, to April, 1807, accompanied by a letter stating that he had continued the subscription to the same as a donation to the Society.

Donations received: Pit coal from Rob. H. Rose; Memoires sur differents sujets, from the author, Dupont de Nemours; Discourse on the desiderata in Nat. Hist., from the author, Dr. B. S. Barton.

A paper offered for the Extra Magellanic Premium, a description and use of a new and simple nautical chart for the working different problems in navigation, was received and referred to the Board of Officers.

1807. Sept. 18. (Patterson; Duponceau, J. B. Smith, J. R. Smith, Mahlon Dickerson, Vaughan, Collins, Clay, Jas. Gibson, Nichols; Drs. Barton, Collin, Fothergill, Conover, Seybert, Chapman, Hewson, James, Cathrall, Wistar.)

Report of the Board of Officers on the communication for the Extra Magellanic Premium offered at the last meeting was read, and ordered to be considered at the second stated meeting in October.

Donations: From Rev. D. B. Warden, of Paris, Secretary to the American Legation, Dissertations de Maxime de Tyr, par Coombes-Dunois, 2 Vols., 8°, Paris, 1802; Lasteyries' trans. of Berchtold's Essai, 2 Vols., 8°, 1797; Traité sur les Bêtes à laine, 8°, 1799 and Hist. de l'Int. &c., 1802; Lippi's Promotion des Sciences; and Warden's trans. of Cuvier's Eul. of Priestley; Cat. Phil. Lib. Co.; Cat. Lib. Writers to his Majesty's Signet, 4°, 1806, from W. Patterson, of Edinburgh, per Jno. Lang, to whom, being present, thanks were presented.

"Excursion to the White Hills," by Dr. Shattuck of

Boston, in a letter to Barton; read and referred to Collins, Seybert and Chapman.

W. Loughton Smith, requested by letter that the books and engravings deposited by his brother November 2, 1804, be delivered up for placing in the Acad. of Arts. So ordered.

1807. Oct. 2. (Patterson; Peale, Dickerson, Vaughan, Fothergill, Barton, Hewson.)

Librarian reported Jos. Smith's engravings, &c., returned to his brother.

Auditing Committee reported £11 $\cdot \cdot 7 \cdot \cdot 6$, general fund; £121 $\cdot \cdot 8 \cdot \cdot 1$ Magellanic Fund; £11 $\cdot \cdot 10 \cdot \cdot 11$ Rittenhouse Fund = £144 $\cdot \cdot 6 \cdot \cdot 6$.

Donations: Halley's Ast. Tables, 4°, 1752; Stat. Obs. Co., Kilkenny, 1800–1802, 8°.

Stockler's acknowledgment of election, read.

Drawing of a fire escape, with description and motto "The first law of nature self preservation," offered for Magellanic Premium; referred to Board of Officers.

Warden's letter, Paris, May 20, read.

1807. Oct. 16. (Patterson; Clay, Dupont, Cloud, Peale, Vaughan, Gibson, Jonathan B. Smith, John R. Smith, Dickerson; Connover [sic], Fothergill, Barton, Mease, James, Chapman, Collin, Wistar, Seybert, McDowell [sic], Hewson.)

Donations: Trans. I. A., St. Petersburg, Vol. XV; Phil. Trans. R. S., 1805, ii, 1806; Trans. Hort. S., Vol. I, i; Catteau's Tab. des Etats Danois, 3 Vols., 8°, and separately bound map, Paris, 1801.

Essay for Ex. Mag. Premium ("A New simple Nautical Chart") determined by ballot to be worthy, & awarded "\$45, or a medal of the value thereof to the author, Mr. John Garnet of New Brunswick N. J."

Election of two new members: Archibald Bruce, M.D., Prof. Min. Un. N. Y.; Ch. Philibert De l'Asteyrie, of Paris.

1807. Nov. 6. (Barton; Collins, Peale, Dickerson, Vaughan, Cloud, the Marquis d'Yroji [sic], Fothergill, Mease, James, Chapman, Hewson.)

Donations: Playfair's Euclid, 1806; Select Speeches with Remarks, by Dr. Chapman, Vols. III, IV; Gram. Lat. Tamulica and sundry small books; Blackstone's Com., 4 Vols., 4°, 1766; Dickinson's Defense, 4th ed., Lond., 1806; Dr. Creasie's Extr. case of Jos. Lockyer, existing on water three weeks, Bath, 1806; An. Rt. R. Humane S.; a Fragment of basaltic rock from the Falls of Passaic, presented by Dr. Fothergill.

Letter from Dr. Sam. Brown, New Orleans, forwarding minerals from Mexico.

"Analysis of Longevity," by W. Tatham, Norfolk, Virginia; referred to Peale, Collins and Chapman.

"On the stones found near Washington," by Mr. Godon; referred to Barton, Seybert and Dickerson.

Society "acquiesced in Dr. Fothergill's request to withdraw certain communications."

Peale and Hewson added to the Committee for putting up the Asiatic Elephant Skeleton; expenses to be repaid.

1807. Nov. 20. (Patterson; Dickerson, Vaughan, Peale, Nichols, Duponceau; Barton, McDowel [sic], James, Mease, Seybert, Connover, Wistar, Hewson.)

Report of Committee that Gaudon's [sic] paper was worthy of publication, adopted.

Board of Officers reported that the Fire Escape paper "contains a very ingenious principle already applied in a model in possession of the Society, in a manner more simple, safe & convenient."

Board of Officers recommend the Society to rescind the resolve of June 28, 1802, to print 500 copies Catalogue Library, and direct the Librarian to prepare a written Catalogue. So ordered, and expenses to be defrayed by the Society.

Garnet's Nautical Chart ordered printed in current Volume of Transactions.

Librarian authorized to sell Rozier's Jour. de Physique at cost and charges.

1807. Dec. 4. (Wistar; J. P. Smith, J. B. Smith, Collins, Patterson, Duponceau, Nichols, Vaughan, Peale; Barton, Mease, Connover, McDowel, Hewson.)

Report of Committee on Tatham's paper adopted.

Donations: Trans. Linn. S., VIII; Phil. Trans. R. S., 1786, ii, 1787; Box of Silver Ores, &c., from Mexican mines (see Sam. Brown's letter, November 6); Archæologia, XV, with nine detached plates.

"The Function of Absorption in certain . . Amphibia," by Dr. Barton; referred to Hewson, Conover and Wistar.

Gillespie's paper on "Insects found in the ear of a Child," returned at the author's request.

1807. Dec. 18. (Barton; Marquis d'Irujo [sic], Wiley, Duponceau, J. B. Smith, Patterson, Nichols, Dickerson, Latrobe, Vaughan, Buchannan [sic], Chapman, Wistar, Hewson.)

Donation: Bronze medal in honor of Commodore Prebble.

Magellanic Premium: Board of Officers reported, and Society resolved that the papers on the Precession of the Equinox ("Julius"), and on a Fire Escape ("The first law of nature, &c.") were not worthy of the Premium.

Committee on White Mountain paper requested to report.

1808. Jan. 1. Between 2 and 5 P. M. (Seybert, Dickerson, Mease, Vaughan, Peale, Collins, Chapman, Patterson, Cloud, Conover.)

Seybert, Mease and Dickerson, Judges; Vaughan, Secretary.

ELECTION OF OFFICERS.

President—Thomas Jefferson.
Vice-Presidents—Wistar, Patterson, Barton.
Secretaries—James, Seybert, Hewson, Chapman.
Councillors—McDowell, Collins, Woodhouse, Shippen.
Curators—Peale, Hare, J. R. Smith.
Treasurer—Vaughan.
Notice ordered in two newspapers.

1808. Jan. 16.* (Collin; Connover, Mease, Buchannan, Seybert, Allison, Hewson, Chapman, Fothergill, Wistar, James, Vaughan, Peale, Wiley, Gibson, Short, Collins, Dickerson, Patterson, Nichols, Tilghman, Duponceau, Clay, J. R. Smith.)

Donations: Séance Pub. de l'Inst. 3 Oct. 1807; Math. Magick, London, 1648.

Auditing Committee: Dickerson and Gibson.

Vaughan elected Librarian.

Committee on Shattuck's White Mountain paper discharged; recommitted to Wistar, Woodhouse and Peale.

Election of new member: Ed. Pennington [sic], of Philadelphia.

1808. Feb'y 5. (Patterson; Vaughan, Dickerson, Collins, J. B. Smith, J. R. Smith, Cloud, Nichols, Legaux Conover, Buchannan, Hewson.)

Report of Committee on Cuthbert's paper on the Tides, adopted, and at the author's request ordered to be returned.

Committee on Shattuck's paper excused and continued. All other Committees directed to report at next meeting.

Donations: Six publications of the Institute of France; Chaupard's de L'Industrie ou les Arts, 4°; Daunon's Elections au Scrutin, 4°, 1803; Ewell's Planter's and Mariner's Medical Companion.

^{*} This must be an error for January 15th.

"A Balloting Box of his invention & constitution," with Trans. N. Eng. Ass. Inventors, I, i, Boston, 1807, was presented "by B. Dearborne."

Four snake bites cured by inoculation with Guaco juice, reported by Mr. Patrullo of Laguira [sic], in a letter to de Foronda; extract read.

Anomalous cases of Vaccine disease mentioned by Dr. Buchannan; requested to write them out.

Jefferson's acknowledgment of his election read.

1808. Feb'y 19. (Wistar; Collins, Wiley, Dickerson, Hollingsworth, Humphreys, Nichols, J. B. Smith, Vaughan, James, Seybert, Buchannan.)

Report on Shattuck's paper adopted; to be returned to the author.

Librarian reported progress in notifying Committees.

Donations: Map of North Carolina; Deaths in Phila., 1807-8; Alden's Religious Societies in Portsmouth, N. H.; Minerals and Shells from Ava and Ascension Isle by Captain Davy.

Dr. James appointed to publish with a preface the Board of Health's "Deaths in Phila," in the next Vol. of Transactions.

"A universal time-keeper for ascertaining Longitudes," by Tim. Kirk; referred to Patterson, Clay, Nichols, Dickerson and Humphreys.

1808. March 4. (Patterson; J. B. Smith, Hare, Dickerton Collins, Collin, Fothergill, Pennington [sic], Buchanan, [sic], Currie, James, Vaughan.)

Report of Committee on Kirk's Machine to lie on the table.

Committees to be notified that they are continued, and are expected to report at the next meeting.

Account of Meteoric Stones fallen near Weston, New Hampshire, with analysis, by Professor Silliman, of Yale and Jas. L. Kingsley; referred to Woodhouse, Hare and Cloud.

1808. March 18. (Barton; Patterson; McDowell, Hare, Collins, Cloud, Vaughan, J. R. Smith, Nichols, Du Ponceau, Mease, Collin, Conover, Buchanan, Chapman, James.)

Report of Committee on Account of Meteoric Stones that it should be published in the Vol. Transactions, "about to be published," agreed to; the letter to accompany the memoir.

Librarian allowed further time to notify Committees.

Donation: Gregory's Elements of Astronomy, 2 Vols., 1726.

1808. April 1. (Wistar; Hare, Patterson, Cloud, Duponceau, J. B. Smith, Vaughan, Dickerson, Collin, Fothergill Hewson.)

Report of Committee on Varley's Memoir (new process of burning lime), to lie on the table.

Auditing Committee reported: £8 \cdot 19 \cdot 6, general fund; £133 \cdot 2 \cdot 9, Magellanic fund; £19 \cdot 0 \cdot 11, Rittenhouse fund = £161 \cdot 3 \cdot 2.

Committee on "Errata in Transactions" discharged.

Committee on Barton's "Cutaneous Absorption of Amphibia" continued.

Committee on Thornton's "Yellow Fever" report accepted.

Barton's paper on Insects ordered (at his request) divided, and first half published in current Vol. Transactions.

Donations: Pigments from Northampton county.

Committee appointed to examine the Standing Rules, and report Alterations: Patterson, Hare, Hewson.

Committee on Index to Vols. V and VI: Collin, Wiley, James.

1808. April 15. (Barton; J. B. Smith, Collins, Allison, Dickerson, Nichols, McDowell, Vaughan, Cloud, Hare, Buchanan, Hewson, James.)

Donations: Currie's Med. Reports, 1808; Baring's Inquiry (Orders in Council); Chapman's Select Speeches Vol. II; Lava from Ascension Isle, from Charles Ross.

Letter from Bowditch to Patterson; read and referred to Mr. Clay.

1808. May 6. (Barton; Collins, Vaughan, Gibson, Duponceau, Dickerson, Collin, Wistar, James.)

Committee on Index: Gibson and Hewson added.

Jefferson to be requested by Dr. Wistar to procure Historical Documents for the Library.

Donations: S. Jackson's Inaug. Add., 1808; W. P. C. Barton's Diss. on Nitrous Oxide; Barlow's Columbiad; Abercrombie's publications; Trans. S. for P. Agri., N. Y., I, 2d ed., 1801; Trans. S. for P. Useful Arts, N. Y., 1807; (from Marg. Yrujo [sic]) Antono de Solis' Hist. de la Conquista de Mexico, 2 Vols., 4°, 1784; J. de Sedeno's Alfabeta de Varones famosos del Campo., 1551; Halma's Dict. Franc. Flamand, 2 Vols., 4th ed., 1781; Andres' Cartas Fam. sobre la Italia. 5 Vols. 12º, 1791. Madrid; Idem. Vienna, 12°, 1794, Madrid; Bernal Diaz's Hist. Cong. Nueva España, 12°, Vols. I, II, IV, 1795; Molina's Hist. Geog. de Chili, 2 Vols, 4°, 1788, 1795; La Poetica de Aristotelés, Madrid, 1778; Sanchez' Coll. de Poesias, 4 Vols, 8°, 1779; Tablas Poeticas, 8°, 1779; Cartas Philologicas, 8°, 1779; Phil. de la Eloquentia, 1777; Velasquez's Origines de la Poesia, 8°, Malaga, 1797; Moncada's Expediciones de los Catalanes, 1777; Castañeda's Hist. Conq. Indias 8°, Anvers., 1554; Jahel Tragedia, 12°, 1763; Codigo de las Costumbres de Barcelona, &c., 2 Vols., 4°, 1791; Reflexiones, Phila., 8°, 1799, by Yrujo; Nueva Idea, 2 Vols., Mad., 1778.

1808. May 20. (Barton; Fothergill, Briggs, Nichols, Allison, Vaughan, Collins.)

[&]quot;No business was done. Adjourned."

1808. June 17. (Patterson; Collin, Collins, Gibson, Dickerson, J. B. Smith, J. R. Smith, Pennington [sic], Jones, McDowell, Fothergill, Moore, Vaughan.)

Captain W. Jones' (of Philadelphia) Queries, and W. Jones' (of C. E., of Calcutta) Replies, relative to the roofing and stuccoing uses of East India *Chunum*, or *Mirton*; strength of East India timber, &c., read and referred to Jones, Cloud and Latrobe.

Communication by F. R. Hassler, that meteoric Stones have not fallen from the Moon; referred to Cloud, Seybert, Clay.

Librarian directed to report on the Catalogue.

1808. July 15. (Patterson; Barton, Seybert, Fothergill, Jones, Cloud, Collins, Du Ponceau, Peale, Gibson, Latrobe, J. R. Smith, J. B. Smith, Vaughan.)

Committee on Jones' paper continued.

Librarian desired to report the state of the Catalogue.

Committee on Barton's paper on Amphibia desired to report at next meeting.

Letter from D. B. Warden that he had sent Lasteyrie's works and other books, "which appear to have miscarried."

A Pneumatic Machine, made at Paris, to show heat by compression, was exhibited by Captain Jones; M. Perrier the owner, sent "his idea of the principles of the operation;" referred to Jones, Cloud and Patterson, to experiment with it "on the spontaneous explosion of artillery."

Election of two new members: Horace Binney; and Rev. W. Staughton, D.D., both of Philadelphia.

1808. Aug. 19. (Patterson, Du Ponceau, J. B. Smith, Fothergill, Peale, Vaughan, Ferrer.)

Committee on Rules (April 1) was discharged.

Donations: De Lasterie on Cotton, 1808 and Cossigny on Sugar, 4°, pamp. (both by Jefferson, replacing copies sent by the authors and lost); Fessenden's Register of Arts.

Vitrifaction from ancient Fort on Paint Creek, nine miles from Chilicothe, presented; referred to Mr. Cloud.

Letter of Sam Peters (dated 10 Jan. 1806) to Saml Harrison, Prest. Social Society of Pittsford & Vermont, sent by him to Jefferson, giving an account of a live frog found in Stone at Hebron, Conn., in 1770; referred to Peale.

Astronomical Observations at Havanah [sic] of the Commet [sic] of September, 1807; of two eclipses of the Moon; of four occultations of stars; calculations of the passage of Venus January 3, 1769; Mercury, November 12, 1782; Mercury, November 5, 1789; annular eclipse of April 3, 1791; communicated by J. J. de Ferrer; referred to Patterson, Clay and Vaughan.

1808. Sept. 17.* (Barton; Jones, Patterson, Duponceau, Vaughan, Cloud, Smith, Wistar, Samual Vaughan.)

Committee on Air Compression fire-making machine reported a description; report accepted; description to be preserved.

Committee on Jones' Queries, reported a communication from Latrobe (of the Committee), and requested further time.

Donations: Mem. Lit. Port. VII, Lisboa; Cointeraux's Traité, with a letter; referred to Patterson and Du Ponceau to answer.

Horace Binney acknowledged election.

1808. Oct. 7. (Patterson; Duponceau, Ferrere [sic], Gibson, Dickerson, Peale, Vaughan, J. B. Smith, Barton, Fothergill, Henson, Wistar.)

Ferrere's Astronomical Observations reported for publication. Adopted.

Report on Hassler's communication accepted.

Report on Cointeraux's letter accepted.

[•] The date, Sept. 17, is very distinct in the minutes, yet, in that year, it fell on Saturday. The meeting if held regularly should bear date Sept. 16.

Peters' communication on the frog, &c., recommitted to Mr. Peale.

Donations: De Roxas on the Vine, 4°, Madrid, 1807; Pharmacopæia Mass. Med. S.; Basque Testament, 2 Vols. 12°, Bayonne, 1777.

Letter on the migration of the *Hirundo rustica*, by Dr. Darlington, referred to Peale, Gibson and Hewson.

1808. Oct. 21. (Wistar; J. B. Smith, Dickerson, Ferrere, Patterson, Vaughan, Peale, Staughton, James, McDougal, Fothergill, Hewson.)

Wistar reported he had written to Jefferson (see May 6). Duponceau, Dickerson and Vaughan to consider the request for exchange from La Soc. des Amateurs, &c., Paris.

Lasteyrie on Cotton having come to hand, Jefferson's copy was ordered to be returned with thanks.

Donations: Notice des Travaux de la Soc. des Amateurs des Sci. Phys. et Nat. de Paris, 1re Année, 1807, 8°, pamphlet; Cossigny on Vine culture; Cossigny's Rech. Phy. et Chem., 1807; Thomas' Eulogium on Marcus Aurelius, trans., 1807; Lasteyrie's Du Cotonier, 1808; Bonfils sur la Religion de ses Peres et de nos Peres, 8°, Paris, 1808.

Seybert requested to report on the minerals of the Society.

1808. Nov. 4. (Patterson; J. B. Smith, Wiley, Dickerson, Duponceau, Gibson, J. R. Smith, Vaughan, Peale, McCloud, Duffield, McDougall [in another handwriting "McDowell?"], James, Conover, Fothergill, Hewson.)

Committee on request for exchange [Oct. 21] continued. Seybert requested to report on the minerals at next meeting.

Darlington's paper reported for publication. Accepted. Report on Peters' Frog adopted. [No intimation of what kind of the report was made.]

Jones' Queries and Answers reported "worthy of a place in the Transactions." Adopted.

Letter of Envoy from Mr. Warden at Paris. Thanks ordered "for his attention to the interests of the Society."

Transactions Asiatic Society, Vol. IX, and letter.

Base Metrique decimal, Vol. II, with Delambre's letter, as Secretary National Institute, Paris.

Donation of Maps with letter from M. Tardien; Jefferson returned Cointeraux's pamphlets, with a Spanish History of Yellow Fever at Madrid (already received, November 26, 1806). Also,

Dabney's Account of an Eruption on the Island of St. George, May, 1808; referred to Hewson, Dickerson and J. R. Smith.

Donations: Carte des Etats Unis., four sheets; ditto, reduced; Carte des Indes Occ., by Tardien; Lanjuinais' Notice, &c., Alphabet Manchou; Rapport sur Gall; Lamoureux's Notice sur Willemet; Tapputi's Reflexions, 2d ed., 1807; De Lambre's Base du Systême, II, 1807; Transactions Society, Bengal; Asiat. Res. Vol. IX, Calcutta, 1807.

1808. Nov. 18. (Barton; Dickerson, Patterson, Gibson, Duponceau, Vaughan, Collin, Hewson.)

Seybert's resignation of appointment to arrange Minerals (Feb. 18 and Nov. 18, 1805) accepted.

Report on Exchange adopted.

Dabney's paper reported worthy of publication. Adopted. Donation: An. Rt. R. Humane Soc. for 1808.

Dunbar's Observations on the Comet of September 12, 1807 to February 25, 1808; read and referred to Clay, Patterson and Ferrére [sic].

1808. Dec. 2. (Patterson; Duponceau, Collins, J. B. Smith, Cloud, Vaughan; Wistar, Barton, Stoughton, Conover, James, Currie, Hewson.)

Committee on Dunbar's paper continued.

Worthington's vitrifaction was reported to be "an earthy substance, combined with a small portion of iron."

Donations: Grégoire's Lit. des Négres; Rapport sur la coupe des bois, 8°, 1808; Lanjuinais' Notices (three of them).

Supplement to Ferrer's paper; referred to same Committee.

1808. Dec. 16. (Barton; Patterson, J. B. Smith, Du Ponceau, Nichols, Dickerson, Peale, W. McClure, J. R. Smith, Mease, Seybert, Collin, Hewson and John Vaughan.

Dunbar's paper reported worthy of publication.

December.

De Ferrer's [sic] Notes and Astronomical communications reported worthy of publication.

Natural History of Tenessee [sic] in extracts from a letter from Rich. P. Rarton to Dr. B. S. Barton; referred to Patterson, Peale and Vaughan.

No candidates for the Magellanic Premium.

Proposal of Dr. Collin to employ a translator of useful periodical papers in possession of the Society; referred to Board of Officers.

Jefferson "having written to the Vice Presidents declining a re-election," the letter was ordered on the minutes, "but the Society declined acting upon it." [The letter follows, occupying half a page.]

WASHINGTON, Nov. 30, 1808.

To the V. Presidents of the Am. Phil. Socy. Philad.

Being to remove within a few months from my present residence, to one still more distant from the seat of the meetings of the Amⁿ Phil. Soc. I feel it a duty no longer to obstruct its service by keeping from its chair members whose position, as well as qualifications, may enable them to discharge its duties with so much more effect; begging leave therefore to withdraw from the Presidency of the Society, at the close of the present term, I avail myself of the occasion gratefully to return my thanks to the Soc^y for the repeated proofs they have been pleased to give of their favor and confidence in me, & to assure them, in retiring from the honourable station in which they have been pleased so long to continue me, that I carry with me all the sentiments of an affectionate member & faithful servant of the Society—asking the favor of you to make this Communication to the Society. I beg leave to tender to each of you personally the assurances of my great esteem & respects.

1809. Jan. 6. Between 2 and 5 p. m. (Patterson, Dickerson, Duponceau, Tilghman, Collins, Jones, Jno. Vaughan, Stoughton, Collin, Barton, James.)

Collin, Duponceau, Patterson, Judges; Vaughan, Clerk.

ELECTION OF OFFICERS.

President—Thomas Jefferson.

Vice-Presidents-Wistar, Patterson, Barton.

Secretaries-James, Hewson, Chapman.

Counsellors-Collin, Ellicott, Rush, Tilghman.

Counsellor for 2 years, vice Shippen, deceased—J. B. Smith.

Curators—Peale, Hare, J. R. Smith.

Treasurer-Jno. Vaughan.

A tax on the ground-rent held for the Magellanic Fund having for the first time been laid, a Committee to memorialize the Legislature was appointed: Tilghman, Du Ponceau, Dickerson.

1809. Jan. 20. (Duponceau; Tilghman, McDowell, J. B. Smith, Brigs [sic], Vaughan, Collins, J. R. Smith, Peale, Patterson, Wylie, Binney, Nichols, James, Dickerson.)

Committee reported the draft of a Memorial "praying that the said ground-rents may be exempted from taxes," which was read and adopted, and the Committee instructed to present it to the Legislature, "and to take the most effectual means to procure its favorable reception & the passage of a law in conformity" with its prayer.

Donations: Bowditch's Navigator, 2d edition, 1807.

Jefferson's letter accepting election, read.

"On the Geology of the U. S. explanatory of a geological map of the U. S. by Wm. McClure;" map and paper referred to Barton, Collins and Dickerson.

A communication on geological subjects from Rob. Williams, of North Carolina, was read in part and postponed.

"On the best angles for sails of a wind mill;" and on finding the roots of equations by Logarithms; both by Jno.

Garnet, of New Brunswick, New Jersey; were referred to Patterson, McDowell and J. R. Smith.

A communication from Ch. Creswell was read.

Election of two new members: Ross Cuthbert, of Lower Canada; Joel Barlow, of District of Columbia.

John Vaughan elected Librarian for the year.

Treasurer's accounts referred to Gibson and Dickerson.

1809. Feb'y 3. (Williams; J. B. Smith, Peale, Collins, J. R. Smith, Mr. Hare, Wylie, Vaughan, Dickerson, McDowell, Collin, Allison, Dr. Hare, Chapman, Nichols.

McClure's Geology of United States reported and ordered to be published in the Transactions.

Donations: "A collection of scarce & interesting tracts, written in England by persons of eminence," 1763-1770, 4 Vols., 8°, from Thos. Stretch.

Williams' geological paper was continued, and "the reading of the residue dispensed with."

On a collection of Bones found at Bigbone Lick, procured at the expense of Mr. Jefferson, by Dr. Wistar; read and referred to Barton, Peale and McDowell.

1809. Feb'y 17. (Duponceau; Colin [sic], McDowell, Staughton, Hewson, Wistar, James, Col. Williams, Tilghman, J. B. Smith, Vaughan, J. R. Smith, Nichols, Dickerson.)

Board of Officers reported, recommending "that a sum not exceeding [] dollars be appropriated for translating from eminent German books such pieces or extracts as are not already translated into French or English & are most beneficial to this Country; and that a committee," &c. Consideration of report postponed.

Garnet's papers reported and ordered for the Transactions. Donations: Med. Mus., Vols. IV, V; Manœuvres of Horse Artillery, translated by Col. Williams from the original of Kosciusko, N. Y., 1808; Short Essay, Milit. Constitu. of

March-April

Nations (3 copies), 1808; Bills of Mortality, Portsmouth, N. H., 1808; spec. of clay from Amboy; 3 specs. copper ore from mouth of Perkiomen.

Deaths and Diseases of Philadelphia, January 1, 1808–1809, from the Board of Health, ordered to be published in the Transactions.

1809. March 3. (Col. Williams; McDowell, Mease, Chapman, Hewson, Bolman, Cooper, Collins, Peale, Vaughan, Paterson [sic], Nichols, Dickerson.)

Donations: Bowditch's Obs. of Comet [sic], of 1807; Persian Lyrics, 4°, 1800, Manchester; Malay Dict.; Haüy's Memorial sur l'Arragonite.

Model and description of Steering apparatus, offered for Extra Magellanic Premium, and referred to Board of Officers.

1809. March 17. (Col. Williams; Allison, Mease, J. B. Smith, J. R. Smith, Vaughan, Peale, Dickerson.)

Wistar's paper on Bigbone Lick fossils "having been accidentally lost," librarian ordered to advertise for it in some one of the public papers.

Donations: Michaux's Voyage a l'Ouest, &c., 8°, Paris, 1808.

1809. April 7. (Col. Williams; Capt. Jones, Dr. Mease, Mr. Collins, Mr. Vaughan.)

Steering apparatus: Report of Board of Officers to grant a prize of \$20 for it, to be considered at next meeting.

Donation: Sir W. Jones' Misc. Works, 2 Vols.

1809. April 21. (Dr. Allison; Patterson, Mease, Dupont, Fothergill, Latrobe, Nichols, Wylie, Collins, Vaughan, Wistar, Peale, Duponceau, Chapman, J. R. Smith, J. B. Smith, Dickerson.)

Donations: Fournier's Man. typographique, 2 Vols., 12°, 1764; Arejulo's Fiebre amarilla, 1807; Maskelynes Logarithms, fol. 1792; Instructions, Arnold's chronometers; Liddel's Seamen's Vade Mecum, 1794; De Tussac's Flora Antillarum, I; fol., Paris, 1808.

Steering apparatus: "Nauticus;" Report of Board of Officers considered and adopted; \$20 or a gold medal awarded to James Humphries, Jr., of the county of Phila-

delphia.

Election of eight new members: Silvain Godon, of Philadelphia; G. W. Featherstonhaugh, of New York; Rev. G. B. Warden, of New York; Dr. R. M. Patterson, of Philadelphia; Thomas Moore, of Maryland; Hon. James Winthrop, of Cambridge, Massachusetts; Nat. Bowditch, of Salem, Massachusetts; Jean Andrè Michaux, of Paris.

Taylor's Log. Tables lent to Mr. Garnet "till called for."

1809. May 5. (Patterson; Collins, Godon, Nichols, Dickerson, J. B. Smith, J. R. Smith, Vaughan, Hare; Wistar, Fothergill, Dr. Patterson, Collin, Chapman.)

Three dilatory committees ordered to report.

Donations: Drayton on Inversion of the Uterus, 1809; Rush on the Omentum.

"On the substances which constitute the mineral Soil of the environs of Boston," by Godon; a memoir which he had recently presented to the Academy of Boston. Thanks ordered.

Meteorological Register kept at the Cape of Good Hope, by J. Emslie, Jr.; referred to J. B. Smith, Vaughan and Wistar.

1809. May 19. (Patterson; Cloud, J. B. Smith, Vaughan, Fothergill, Dr. Patterson, Chapman.)

The three Committees not reporting, the Librarian "to acquaint them that the Society was highly dissatisfied at

their inattention and commanded them to report at the next meeting."

Royal Library, Milan, solicited exchanges; letter referred to Vaughan and Patterson.

Government paying off its 8 per cent, the Treasurer was authorized to reinvest the \$200 Rittenhouse Fund Stock in U. S. 6 per cent stock.

1809. June 16. (Patterson; Fothergill, McClure, Du Ponceau, Godon, J. B. Smith, Vaughan.)

Librarian had mistaken the evening, and omitted the usual notices to members. Adjourned to June 23, at 7 o'clock.

1809. June 23. Adjourned Meeting. (Patterson; Cloud, McClure, B. Allison, Duponceau, J. B. Smith, Colins, Peale, Godon, Vaughan.)

Bequest: The Librarian reported that Dr. Woodhouse, late Professor Chemistry University of Pennsylvania, having bequeathed to the Society his Collection of Minerals, he had received the same. Ordered that a receipt be sent to the Executors, and an Extract of the Will preserved.

Donations: Specimen of Zinc rolled at between 212° and 300° F. from Mr. Usud (?), "under whose directions the operation was performed," the first zinc rolled in America. Specimen of Phosphate of lime from Mercia.

"On a combination of Palladium with Gold," by Mr. Cloud; referred to Godon, Collins, Patterson, with power to publish (per Mr. Vaughan).

Addition to McClure's paper of January 20; referred to former Committee with Godon and Seybert added, with power to publish (per Mr. Vaughan).

1809. July 21. (Patterson; J. B. Smith, McClure, Cloud, Fothergill, Peale, Du Ponceau, Nichols, Dickerson.)

Mr. Vaughan (prevented by sudden indisposition) wrote

that the Committees on Cloud's and McClure's papers had judged them well worthy of publication, and that he had placed them in the printer's hands.

Donations: Accum's Mineralogy, 1809; Connoisance des Temps, 1808-'9.

Improvement in propelling Boats, turning Mills, &c., in tide water, without a fall for mill wheels, by H. Voight; not offered for publication; ordered to be preserved.

Barlow and Featherstonehaugh acknowledge election.

1809. Aug. 18. (Patterson; Fothergill, Collins, Du Pouceau, J. B. Smith, J. R. Smith, Dr. Allison, Vaughan.)

Donations: (From the Nat. Inst.) 1 Vol. Mem. Sav. Etran. 4°, 1805; 3 Vols. Mem. S. et A. Vol. V; 1 Vol. Math. V., 1806; 2 Vols. 1806–'7; 2 Vols. 1807–'8; 2 Vols. Base du Systéme Metrique, 1806–'7; (from the authors) Brisseau-Mirbel's Expos. 2d ed., 1809; Callet's Tables of Log., 1809; Lasteyrie's Hist. Acad., 1786; Pictet's Bib. Brit. 303–308, 311–312, 1808–'9; Clener's engravings of Etruscan Vases, and Warden's descriptions; Present state of N. Scotia, 1787.

Librarian reported that M. Michaux had obtained the completion of the French journals, and that he had imported for the Society: Brongniart's Traité Elem. Min. 2 Vols., 1807; Bronchaut's 2 Vols. with plates, 1808; Hauy's Traité Elem. de Physique, 2 ed., 1809; and Bertholet's Essai de Stat. Chim., 2 Vols., 1808.

1809. Sept. 15. (Barton; Patterson, McDowell, Jones, J. B. Smith, Legaux, J. R. Smith, Vaughan, Fothergill, Conover, James.)

Donations: Publications respecting the Del. and Ches. Canal, from Josh. Gilpin; 7 Nos. Portfolio N. S.

"Analysis of the Nicotiana latifolia," by Vaquelin, translated by Warden; referred to Conover, James and Cloud.

1809. Oct. 6. (Patterson; Vaughan, Duponceau, Collins, J. R. Smith; Barton, McDowell, Conover, James, Wistar, Hewson.)

Donations: Chapman's Speeches, Vols. I and V; Coxe's Phila. Med. Dict.; Gass' Journal, 12mo, Pittsburgh, 1807.

Table for computing the Moon's motion, by Lambert; in a letter from Jefferson; referred to Garnet, Patterson and J. R. Smith.

[Note here: "Donations to this period inserted in Vol. VI, p. 2d," i. e., of the Transactions.]

1809. Oct. 20. (Wistar; and 11 others.)

Donations: Watteville's Hist. Conf. Helv., 1768; McClue's trans. of Cath. II's educational establishments, 2 Vols., 12°, 1775; Les Instructions de Catharine II, 1769; Voyages en Tartare, 2 Vols., 4°, 1729; Mem. et Obs. Geog. 4, 1765; Turgot's Works, 8 Vols., 8°, 1809 (Vol., I wanting).

Jas. Winthrop acknowledges his election.

Journal of Meteorological Observations in Arkansas, 1805–1808, by J. B. Treat in a letter from Jefferson.

The Met. papers in possession of the Soc. were referred to Patterson, Dickerson, J. R. Smith, Duponceau, Vaughan, Collins, Gibson, Cloud, Mease, Stoughton, Allison, James and Hewson, to abstract for publication.

1809. Nov. 3. (Wistar; Godon, Staughton, and 10 others.)

Report of Committee on translation of Nicotiana latifolia, not accepted. Recommitted to Godon, Duponceau and Stoughton.

Donations: Various publications from the Dublin Society. "Experiments on crude Platinum and a new process for separating Palladium & Rhodium," by Jos. Cloud, read and referred to Conover, Godon and Collins.

1809. Nov. 17. (Patterson; and 6 others.)

Committee on Cloud's paper continued by request.

Donations: Several recent publications.

1809. Dec. 1. (Barton; and 6 others.)

Drawing of improved open and close stoves, invented by H. Voight; ordered to be placed on file.

1809. Dec. 15. (Dr. Collin; and 11 others.)

Cloud's memoir on Platinum reported for publication.

Elmslie's Meteorological Journal at the Cape of Good Hope; Committee recommended its reference to the Meteorological Committee. So ordered.

No papers for the Magellanic premium.

Donation: Rios' Navigation Tables, 2d ed., 1809.

1810. Jan'y 5. Between 2 and 5 p. m. (Barton; Chapman, Allison, J. B. Smith, Wylie, Staughton, Collin, Patterson, McDowell, Bolman, Duffield, Dupont, Vaughan.)

Collin, Allison, Chapman, Judges; Vaughan, Clerk.

ELECTION OF OFFICERS.

President—Thomas Jefferson.

Vice-Presidents-Patterson, Wistar, Barton.

Secretaries-James, Hewson, Chapman, Allison.

Councillors-DuPonceau, Williams, Dickerson, White.

Councillor for 1 year—Seybert (vice Woodward, deceased).

Curators-Peale, Hare, J. R. Smith.

Treasurer-Vaughan.

1810. Jan'y 19. (10 present.)

Donations: Camper's Works, with a letter from his son (Œuvres, 3 Vols. 8°, and Vol. Plates, Paris, 1808; also Letter to Cuvier on the Mæstrich fossils, 4); on the Upas;

De l'Isle's Christalographie, 4 Vols, 8°, 2d ed., 1783 ("The Society already possess models of the Christals"), and four other publications.

Tables for computing Lunar Long., &c., and to find the Moon's hourly velocity, by W. Lambert; referred to Garnet, Patterson and J. R. Smith.

An account of sundry inventions in a letter from Jos. Coppenger.

Jane Aitken's proposal to reprint Transactions Vols. I, II,

III, referred to J. R. Smith and Vaughan.

The printers having refused to advertise the meetings gratis, the Librarian had discontinued the advertisement.

Mr. Vaughan chosen Librarian.

1810. Feb'y 2. (Barton; Briggs, Godon and 11 others.)

Jefferson accepts the presidency by letter.

"An attempt to explain the origin of meteoric stones," by Dr. Spalding, of New Hampshire; read and referred to Hare, Cloud and Dickerson.

Donations: Howell's map of Pennsylvania; Perthes' Carte hydro. de Pologne.

1810. *Feb'y* 16. (Patterson; and 15 others.)

Treasurer's accounts referred to Dickerson and Gibson. (Gibson going out of town, J. R. Smith substituted.)

Report on Spaulding's memoir laid on the table.

Donation from M. Michaux of an Agricultural report.

"Early Obs. on the Seasons &c. in the Swedish Settlements on the Delaware," chiefly translated from the records of the Swedish Missionaries, being the commencement of a memoir to be completed at a future meeting," was read by Dr. Collin.

Invitation to an Eulogium on Dr. Woodhouse received from the Medical Society, for February 21st.

1810. March 2. (Patterson; and 14 others.) Donation of two pamphlets.

1810. March 16. (Patterson; and 7 others.)

Auditing Committee reported on hand Dec. 31, 1808: £85 $\cdot \cdot 10 \cdot \cdot 1$, on General Account; £202 $\cdot \cdot 15 \cdot \cdot 6$ Magellanic Fund; £25 $\cdot \cdot 0 \cdot \cdot 11$ Rittenhouse Fund. And Dec. 31, 1809: £49 $\cdot \cdot 12 \cdot \cdot 2$; £267 $\cdot \cdot 17 \cdot \cdot 6$; £26 $\cdot \cdot \cdot 10 \cdot \cdot \cdot 11$.

Treasurer authorized, "with the approbation of M^r Patterson," to invest the surplus of the Magellanic Fund in some productive stock of the United States.

Treasurer stated that Mrs. Searjant [sic] and Mrs. Waters, Ex. of Rittenhouse, requested conference on the business of the Observatory trust. "Previous to a decision the Society adjourned."

1810. April 6. (Barton; and 12 others.)

Donations: Letters from Europe, 2 Vols, Phila., 1805, presented by Jos. Sansom; 3 Silver medals illustrative of the Hist. Amer. Revol. designed by J. Sansom and engraved by J. Reich, presented by Sansom.

Patterson deposited the Plan of a Rule to determine how many 1000 ems or squares are in a page of any sized type from Pica down to Diamond, by S. H. Saunders, Jr.

Two letters from W. Lambert to R. Patterson read; Lambert permitted to withdraw his paper; his letter of March 25 referred to Patterson, J. R. Smith and Collins.

Mrs. Sargeant [sic], and Hester Waters' request that the Observatory and ground be reconveyed to them "for certain reasons offering to present to the Soc. the Transit Instruments and the Clock, together with the Money bequeathed by Mrs Rittenhouse for keeping the Building in repair" was read, and with all other papers relating to the same subject referred to Patterson, Vaughan and Wistar.

1810. April 20. (Patterson; McDowell, Allison, J. B. Smith, Robert Hare, Jr., Drs. Barton, Mease, Conover, Chapman.)

The Committee "having taken the opinion of Council [sic] learned in the law," recommend the following resolution:

"Resolved, That the Soc. accede to the request of Mrs. Sergeant & Mrs. Waters and a Com. be applied to make the reconveyance and to receive the Instruments"

Adopted; and the same Committee appointed.

Clock: "The same Com. were directed to set up the Astronomical Clock & Transit Instrument... in some proper position in the Hall of the Society, and fix a meridian mark, and ... ascertain by actual measurement the exact bearing & distance or difference of Lat. & Long. of the new Scite [sic] of the Instrument, from that which it now occupies."

1810. May 4. (Patterson; and 11 others.)

Donations: Histoire du Japan, 6 Vols., 1754; and pamphlets.

"On Paper obtained from the Liber of *Morus rubra*," by Mr. Godon (specimens exhibited) was read and referred to Barton, Hewson and James.

1810. May 18. (Wistar; and 6 others.)

Report of Board of Officers recommending the publication of the Laws, ordered to lie on the table.

Donation: Cat. Lib. R. Inst. G. B., 8°, 1809.

"Directions for making such observations on land as will furnish sufficient data for finding the Lat. & Long. without the aid of any other Instrument than a good common watch & such other apparatus as any person may readily procure or even make for himself," read by Mr. Patterson, and referred to J. R. Smith, Allison and Clay.

1810. June 15. (Barton; and 12 others.)

Godon's paper reported worthy of publication in the next volume.

Warden's acknowledgment of election, Paris, February 10, read.

Donations: Various French publications; and Inaug. Dissertations from Upsal.

Description and analysis of Meteoric Stone which fell at Weston, Connecticut, December 4, 1807, by D. B. Warden; read and referred to Godon, Cloud and Collins.

1810. July 20. (Patterson; and 15 others.)

On a new plan of a Steam Engine for propelling boats on rivers like the Susquehanna, by Isaac A. Chapman, of Wilkesbarre (per Dr. Mease), was read.

Plan of a Saw Mill, in a letter from M. du Jarreau to Jefferson, was referred to DuPonceau, Patterson and Gibson.

Election of six new members: Geo. Gibbes, of Boston, late of Rhode Island; Wm. Johnson, of Charleston, South Carolina (one of the Judges Supreme Court, United States); Humphrey Davy, of London; David Hosack, of New York; John Haighton, M.D., of London; J. H. Brinton, of Philadelphia.

1810. Aug. 17. (Patterson; and 10 others.)

Warden's paper reported and ordered for the Transactions. Committee on the reconveyance reported execution. Committee on du Jarreau's paper. Report accepted.

Donations: Mem. Conn. Acad. I., i; Sundry Specimens of minerals found in the neighborhood of Quebec, referred to Collins to report on.

1810. Sept. 21. (Collin; Vaughan, Nichols, Pennington, Hewson.)

1810. Oct. 5. (Patterson; Collins, Brinton, Duponceau, Vaughan, Hewson.)

Auditing Committee reported the following investments

of "Magellanic Ballance:" £267 ·· 17 ·· 7 (\$714.34) procured (at 65 p. c.) Certificate No. 6175, August 23, 1810, on books of Pennsylvania, \$1098.99, three per cents. "With the \$200 Rittenhouse fund they.... purchased No. 6176, Aug. 23, 3 per cents stock \$307.69." Both registered in the name of the Society on the Loan Officer's books of Pennsylvania.

Class of Mathematics National Institute, Paris, acknowledged the receipt of "the Volume of the Society's Transactions." Library Company, Philadelphia, acknowledged VI, ii; Antiq. S., London, ditto; Asiatic S. acknowledged "several numbers of the Philada. Med. Museum, and Barton's Supplement of the 3^d Vol."

Donations: Thomas' Hist. of Printing in America, 2 Vols., 8°, Worcester, 1810; Arrowsmith's Map of the World, 1809; Rapport sur les Vaccinations, 1809; Dufief's Analysis; Wilson's Am. Ornithology, Vol I, fol. 1808, Vol. II, 1810; Spec. of Azure or Phosphated Iron from Monmouth Co., N. J.; Spec. of talc or serpentine from Newburyport; Specs. of the French Stereotype with 3 pages of the Matrices or letters from which they are formed.

1810. Oct. 19. (Barton; and 6 others.)

No quorum for election of new members.

1810. Nov. 2. (Patterson; and 5 others.)

Donations: An. Obs., Turin; Am. An. Register, Vol. VI; "An east prospect of the city of Philadelphia taken by Geo. Heap from the Jersey Shore, under the direction of Nicholas Scull, Surv. Gen. Province of Penn. about the year 1752."

Invitation from the Academy of Fine Arts, to Annual Oration on the 19th* in the evening. Treasurer ordered to notify the members to assemble, and to "go in a body from the Hall to the Academy."

[.] This date is altered and written over; it may be the 9th, 13th or 19th.

Nov. 16. (Patterson; and 8 others.) 1810.

Donation: Ramsav's Hist. S. C.

Observations at Lancaster on the Solar Eclipse of April 14, 1809, and Lunar Eclipse of April 29, in a letter from A. Ellicott, read: to be continued.

Committee to remove the Rittenhouse instruments were authorized to invite Mr. Ellicott to assist, and to pay his expenses.

1810. Dec. 7. (Patterson: and 9 others.)

Donations: Duponceau's Trans. of Van Bynkershoek's Treatise on War; Trans. S. of Arts, London, Vol. 27; Stat. of Cork Co.; Trans. Dublin S., Vol. VI; Librarian ordered to purchase De Bournon's Mineralogie, 3 Vols, 4°.

1810. Dec. 21. (Patterson; Vaughan, Gibson, J. B. Smith, Nichols, Collins, Dupont de Nemours, C. W. Peale, Wistar, James, Hewson.)

Ellicott's Eclipse Observations reported worthy of publication in the Transactions.

Donations: Thompson's Chemistry, 1810; Archæologia, XVI, i; a printed drawing and description of Sacket's Machine for ascending River Rapids, "offered to the publick," and sent from Lancaster by T. Green.

Auditing Committee appointed: Gibson, J. R. Smith.

1811. Jan'y 4. Between 2 and 5 p. m. (Duponceau; Barton, Ellicott, Conover, Chapman, Collin, Vaughan.)

Barton, Ellicott, Collin, Judges; Conover, Clerk.

ELECTION OF OFFICERS.

President—Thomas Jefferson. Vice-Presidents-Wistar, Barton, Patterson. Secretaries—James, Hewson, Chapman, Allison. Counsellors—Seybert, J. B. Smith, Gibson, Brinton.

Curators-J. R. Smith, Collins, Hare.

Treasurer-Vaughan.

1811. Jan'y 18. (Patterson, Wistar, Barton, Vice-Presidents; Collins, Duponceau, Cloud, Godon, Vaughan, Nichols, D. B. Warden, Ellicott, Short, Tilghman, J. R. Smith, Drs. Collin, Conover, Mease, Allison, James.)

Dr. Collin read further extracts from Swedish records.

Rittenhouse Committee reported progress in removing the instruments, although obstructed by bad weather.

Donations: [List of French pamphlets, &c., sent by various persons.]

Election of five new members: John Mason Good, F.R.S., of London; Rev. W. Bentley, of Salem, Massachusetts; A. Vauquelin, Paris; John Davis, Secretary American Academy, Boston; Charles J. Wistler, of Philadelphia.

1811. Feb'y 1. (Barton, Patterson; Pennington; Matlack, J. B. Smith, J. R. Smith, Mease, Fothergill, C. Wistar, Short, Nichols, Hare, Ellicott, Godon, Gilpin, Vaughan.)

Account of an Open Stove, read by Matlack; was referred to Patterson, Pennington and Hare.

Facts and Observations concerning the Natural Turnpike supposed to have been the Ancient Southern Margin of Lake Ontario, read by Dr. Barton, to be "ultimately" left with the Society.

Jefferson acknowledged his re-election.

Mr. Godon permitted to give a course of lectures on Mineralogy in the Room occupied by the Collection of Minerals, if the College of Physicians made no objection.

Mr. Rob. Williams, of North Carolina, having written concerning his communication, the Committee had two meetings (January 20, February 3), at which it was read. On motion it was read again, and the Secretary directed to inform Mr. W. that it remained on file.

1811. $F \epsilon b' y$ 15. (Wistar, Barton, Patterson; Vice-Presidents, Messrs. Godon, Jones, Wister [sic], Vaughan, J. B. Smith; Drs. Currie, Mease.)

Donations: Dufief's French Dictionary; Drawings of Galvin's Windlass; specs. of Saba sulphur; and pamphlets; and an account of Perkin's new copperplate presses.

Dr. Barton read notes on the Generation of Fishes, to be

left with the Society hereafter.

Librarian to report on papers for publication now on hand.

1811. March 1. (Patterson; Collins, Godon, Matlack, Wistar, Nichols, Vaughan, J. B. Smith, Drs. Fothergill, Chapman, Mease, Hewson.)

Librarian was allowed further time. (Vide Feb. 15th.) Donation: Voyages of La Peyrouse.

1811. March 14.* (Patterson; and 9 others.)

Donations: Potocki's Chronologie; Wilson's American Ornithology, Vol. III, F.

Captain Jones' paper on Lead cartridges was referred to Patterson, Cloud and Matlack.

1811. April 5. (Wistar; and 12 others.)

Committee on Jones' paper reported it worthy of publication by the United States War and Navy Departments.

Report and subsequent letter from Capt. Jones to be filed, and paper forwarded to Washington.

Donations: Hosack's treatise on the Elgin Botanic Garden and its disposal to the State of New York.

Bust of Jefferson: Vaughan and Patterson a Committee to request Mrs. Sergent [sic] to permit the removal of "the bust of Mr. Jefferson in her possession to our Hall."

Dr. Fred. Ridgeley's communication to Dr. Rush on the Saltpetre "Mammoth" Cave, with a sketch of the same, was referred to Collins, Wistar and Godon.

^{*}This date, although clearly written in the minutes, must be an error for Murch 15th, as the 14th fell on Thursday.

1811. April 19. (Patterson; and 6 others.)

Librarian reported sending Jones' paper to Washington. Donation from T. Matlack, a small (imperfect) Roman

MS. Breviary.

Nathan Sellers' model and description of his "new & simple Drawgate ('Rolling Draw Gate'), applied to water-wheels," were referred to Patterson, Mease and Vaughan.

1811. May 3. (Patterson; and 9 others.)

Committee on Seller's Drawgate reported it for publication in the next Vol. Transactions, and recommended its earlier publication. Committee authorized to print it in the newspapers.

Letters of acknowledgment from Wm. Eustis, Secretary War U. S. (Jones' paper); and Asiatic Society, Calcutta, December 6, 1810 (VI, ii Transactions).

Donation from Dr. Conover; a plan of the City of Germany, in Somerset county, Pennsylvania.

1811. May 17. (Patterson; and 15 others.)

Report of Committee on Mammoth Cave laid over, in view of expected further communication.

Librarian was granted further time.

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Donation from Mr. Wm. Jones, of Calcutta; a marble image of Ganesa, described in Asiatic Res. p. 226. "Captain Jones left it to the Society to determine whether this image should be placed in the Societies' [sic] museum or in the collection of the Academy of Arts. Resolved, that it can not be better placed than in the Museum" Thanks voted to "Capt. Wm. Jones & also to Mr. Wm. Jones of Calcutta." Resolved, that a complete Set of Trans. be sent to Mr. Jones. Resolved, that Captn. Jones, Mr. C. Wistar and Mr. Godon procure information desired by him relative to the best mode of making Tar; Com. to distribute the seeds sent by W. Jones; Jones, Collins, Mease, to distribute seeds.

Further Donations: Rock Salt, minerals, mammoth tooth and a pamphlet, all from Don Pedro de la Lastra from S. Fe de Bogota. Also, a description of the Ast. Obs. there, in charge of F. I. de Caldas who seeks correspondence with Astronomers in the United States.

Lambert's letter respecting his supposed discovery of an error in Ellicot's Longitude of Washington, was deposited in the Library.

1811. June 21. (Patterson; and 8 others.)

Librarian directed to give an account of the papers judged worthy of publication, as well as of those adjudged to be so which the authors have not left in the possession of the Society.

Historical Committee:

"Resolved, On the motion of M.". Du Ponceau, that a Com. be appointed to report & devise a plan for organizing a Com. or branch of this Society for making researches into & collecting materials for the History of the United States & of Pennsylvania in particular or any other plan for accomplishing the same object.

"Resolved, That the Board of Officers be the Committee to report

in one month."

Dr. Barton exhibited a large and perfect claw of the Megatherium found in a Nitre Cave in Tennessee, at the foot of Cumberland mountain.

Donations: Chinese almanae 1810; and two pamphlets.

1811. July 19. (Barton; and 10 others.)

Committee on Historical Branch reported plan, but the report was referred for a larger meeting.

Librarian read his list of papers ready for publication; referred to next meeting; notice to be given to members.

Donations: Gudin's l'Astronomie, with a letter; Dupont de Nemours' l'Anarchie de la Pologne.

1811. Aug. 16. (Patterson; Duponceau, Matlack, Godon, Smith, Nichols, Vaughan, Drs. Mease & Hewson.)

Donations: Translation of Gregoire's Intellectual and

Moral faculties and literatures of Negroes, Brooklyn, 8°, 1810.

1811. Sept. 20. (Barton; and 16 others.)

Bust of Jefferson: Committee reported success (vide April 5); the bust had been obtained, bronzed and placed in the Hall.

Donations: Mem. de l'Inst. and pamphlets.

Society Scot. Antiquities, acknowledged receipt of VI, ii.

J. D. Clifford's letter to Dr. Barton respecting the Mammoth Cave, read. Specimens not yet received. Extract from a letter requested for publication.

Jefferson sent a duplicate of Gudin's poem l'Astronomie. Ordered to be returned with thanks.

"The same letter contained some important remarks relative to an universal standard of weights & measures;" referred to Patterson, J. R. Smith and Allison.

1811. Oct. 4. (Wistar; and 5 others.)

Donation: Œuvres de Turgot.

1811. Oct. 18. (Patterson; and 9 others.)

Donation: Remusat's Essai sur la langue Chinoise, 1811.

1811. Nov. 1. (Patterson; Matlack, Nichols, Vaughan, Fothergill, Collin, Moore, James.)

Donation: Gay Lusac et Thenard's Recherches, 2 Vols., 1811.

1811. Nov. 15. (Barton; Wistar, Collin, Du Ponceau, Matlac [sic], Vaughan, Nichols.)

Donations: Heym's Russian-French Dict., 3 Vols, 4°, Moscow, 1799, 1801, bound in 1 Vol.; Tarischoff's French-Russian Dict., 2 Vols., 8°, St. Pet., 1798; Elemens Lang. Russe, 8°, 1805; Maudru's Elemens, 2 Vols., 8°, Paris, l'an

X (all sent by Mr. Levitt Harris from St. Petersburg, with letter dated ⁵/₁₇ July, 1811). Also,

Adelung's 4° pamphlet, "Rapport entre da langue Sanscrit et la langue Russe." St. Petersburg, 1811; "from the author, whose name is not in the publication, but in Mr. Harris' letter, of 28 Aug., 9 Sep., 1811." Also,

Fischer's Onomasticon, 4°, Moscow, 1821, with a letter from John Adams, dated St. Pet., 15 Sept., 1811, communicating Prof. Fischer's wish to become a correspondent of the Society. Also,

Mem. de l' Acad. St. Pet. with letter from Secretary Fuss. Also,

Marcel's Chrestomathia Chaldaica and Hebraica, 2 Vols., 8°, Paris, 1803.

1811. Dec. 6. (Barton; Nichols, Collins, DuPonceau, J. B. Smith, J. R. Smith, Patterson, Vaughan.)

Donations from Capn. John Davy: Vopa Deva's Sangskrit Grammar (Moogdhuboodha), 12°; an extensive Vocab. Bengalee-English, 8°, Calcutta, 1793; W. Carey's Mahratta Grammar, 2d ed., Serampore, 1808; Bowditch's remarks on the comet now visible, and the solar eclipse of 17 Sept., 1811, at his present residence, Salem, Mass.

Peale's Museum being entirely removed to the State House, Mr. C. W. Peale requested to be released from his lease, "if the Society could otherwise dispose of the house." Referred to Patterson, Vaughan and Collins.

No application for Magellanic Premium.

1812. Jan'y 3.* Between 2 and 5 o'clock, P. M. (Barton, Patterson, DuPonceau, Collin, Tilghman, Pennington, Nichols, Hare, Vaughan.)

ELECTION OF OFFICERS.

President—Thomas Jefferson.

Vice-Presidents—Wistar, Barton, Patterson.

^{*} No meeting is noted on the minutes as having been held Dec. 20, as it regularly should have been.

Secretaries—James, Hewson, Chapman, Cloud. Curators—J. R. Smith, Collins, Hare. Counsellors—Collin, Rush, Tilghman, Ellicot [sic]. Treasurer—John Vaughan.

1812. Jan'y 17. (Patterson; J. B. Smith, DuPonceau, Col. J. Williams, Tilghman, Collins, Vaughan, Nichols, Gibson, J. R. Smith; Drs. Collin, Allison, Barton, Coxe, Mease, Fothergill, Chapman, James.)

Donations: Wilson's Am. Ornithology, Vol. IV; Wistar's Anatomy, Vol. I; Smith's Laws of Pa., Vols. I, II, III; Dobson's Eclectic Repertory, Vol. I, &c.; DePaykull's Monographia Histeroidum; Equity laws of the Grand Duke Yaroslaff, in Russian (oldest known code of laws in Russia, 1017, A.D.), presented by P. Poletica.

Penn's Charter: "Dr. Barton having informed the Society that there is in the possession of Mr. Joseph Anthony of this city the *original* Charter of Privileges from William Penn to the people of the Province of Pennsylvania;

"Resolved, That William Tilghman, P. S. Duponceau, & James Gibson $\operatorname{Esq^{rs}}$ be a Committee to wait upon M^r . Anthony & request, on the part of the Society, the said Charter to be placed among the Archives of the Society."

Election of three new members: José Correa de Serra, Secretary Royal Society, Lisbon, now residing at Paris; Robert Walsh, Junior, of Philadelphia; Benjamin Allen, LL.D., of Philadelphia.

Librarian elected: John Vaughan.

1812. Feb'y 7. (Barton; Allen, and 9 others.)

The Committee reported that they had obtained the Penn Charter, dated October 28, 1701. Thanks to Mr. Anthony voted.

Committee on Peale's lease reported; report recommitted; Duponceau added; Committee authorized to advertise.

Sale of State House Yard: "It having been mentioned that the Legislature had appointed a Committee to consider of the propriety of selling the State House Yard—

"Resolved, That J. B. Smith, Wm. Tilghman, Jno. Vaughan, R. Patterson & B. S. Barton, be a Committee to attend to the Interests of the Society should a Sale be determined upon."

Specimens of *Urtica canadensis*? Lin. "which affords Hemp," were sent to the Society "by Mr. Whitlow who has obtained a patent for his discovery, & received great encouragement at Washington."

Donations: "Mr. Seixas presented an impression in paper of a die cut by Furst in this city, of his father Gershom M.

Seixas, on account of its superior execution."

Communication: "On the Height of the New Hampshire White Hills taken by Barometrical Measurement; also a statement of the principles of this mode of measurement;" by A. Partridge, Cap. Eng. Referred to Allen, Patterson, J. R. Smith.

1812. Feb'y 21. (Patterson; Duponceau, Collins, Matlack, Vaughan, J. B. Smith, Nicolls [sic]; Drs. Allison, Allen, Currie, Barton, Hewson, Mease, Conover, James.)

Legal opinion on the subject of Peale's lease was read, and the Committee's report laid over.

Report of Committee on Partridge's memoir adopted.

1812. March 6. (Patterson; Rawle, Sansom, Binney, Nichols, Vaughan, Duponceau, Williams, Gibson, Clymer, Matlack, J. B. Smith, Hare, J. R. Smith; Drs. Allen, Barton, Allison, Mease, Coxe, Chapman, Wistar, James.)

Donations: L'Escallier's Grément des Vaisseaux; Mer, 2 Vols., 4°; his Exposé.... Guienne, 2d ed.; Vocab. des termes de marine, 3 Vols., 4°; Larreatique's Desc. bot. du Cheranthodendron; L'Escallier's Geologie de la Guadaloupe, 4°; L'Escallier's Bakhtiar Nameh, translated, 8°, Paris, 1805;

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L'Escallier's Climat de Ligurie, 4°, 1808; Oltmann's Tables hypsometriques, 8°, Paris, 1811 (presented by Baron Humboldt); Clarke on Fevers, 8°, Edinburgh, 1801; Barton's Elements of Botany, 2d ed., 1812, Vol. I.; Smith's Laws of Pa., Vol. IV; De la Tynna's Almanach du Commerce de Paris, 1809.

Lease: A letter from Jer. Warder, Junior, was read, offering to lease the vacated Peale rooms for "a Literary society now forming."

Lease of the rooms to Mr. Sully: Report of the Committee, adopted, and the Committee empowered to execute a lease to Mr. Sully.

1812. March 20. (Barton; Abbé Correa de Serra, and 12 others.)

Committee on lease to Mr. Sully reported progress.

Donation: Rock crystal from Madagascar.

Dr. Alex. Montgomery's letter dated Frankford, Kentucky, February 25, "describing the Earthquakes that had occurred there," was read.

N. E. room, second story "[called the Printing Room]," ordered to be reserved for the use of the Society, in the lease to Mr. Sully.

1812. April 3. (Barton; Correa de Serra and 9 others.)

Donations: Pope's Bridge architecture; Trans. Geol. S.; Benezet's Collection of Indian Treaties, Fol^o (presented by Robt. Proud); Ann. de l'Obs., Turin (through Consul Russell at Paris, with his enclosure of Prof. Eandi's letter).

"Miss Aikin made a present of the binding of the Columbiad belonging to the Society."

1812. April 17. (Wistar; Patterson, Isard, Duponceau, Collins, Correa, Nichols, J. B. Smith, Vaughan, Mease, Barton, Hewson.)

Donations: Pamphlets from Edinburgh; Wilson's Ornithology, Vol. V; Diaper and Jones' trans. of Oppian's Halieuticks, 8°, Oxford, 1722 (presented by J. Morris); Libozchitz's Tab. Bot. en Russie.

1812. May 1. (Patterson; and 11 others.)

Donations: Gay Lussac's Recherches, 2 Vols., 8°, 1811; Destutt-Tracy's Elemens d'Ideologie, 3 Vols., 8°, 1806; Michaux's Hist. des Chénes; Dupuis' Analyse de l'Origine de tous les Cultes, 8°, Paris, 1804; Cabani's Coup d'Œil, 8°, 1804; Cabani's Rapports du Physique, &c., 2 Vols., 8°, 1805; and several pamphlets.

Librarian directed to prepare a list of papers ready for publication.

1812. May 15. (Barton; Collins and Vaughan.)

1812. June 19. (Barton; Garnet, Correa, Moore, and 8 others.)

Donations: Tondi's Tab. Syn. d'Oreognosie, 1811; Pallas' Dicty. 4 Vols., 4°, and other works.

Communications from Jefferson: W. Lambert's letter relative to an error in the Nautical Almanae; Abstract of calculations "to ascertain the Longitude of Washington, which he makes to be 76° 54′ 36″ 145 West of Greenwich." Referred to Patterson, Garnet, Allison.

A letter from Tim. Alden relative to a Descent in a Diving Bell near Portsmouth, New Hampshire, and to the discovery of some quicksilver in Dover Town, New Hampshire; referred to Allison, Collins, Mease.

Dr. Barton read a tribute of respect to the memory of the late Jonathan Bayard Smith, which was referred to the Board of Officers.

1812. July 17. (Patterson; Binney, Du Ponceau, Collin, Gibson, Nichols, McKean, Yrujo, Hare, Vaughan; Drs. Chapman, Fothergill, Parke, James, Hossac, Wistar.)

The report of the Board, was read, recommending that the Librarian procure a Book "in which shall be registered the Death of their members in the order in which the same shall become known to the Society accompanied by such biographical accounts of the deceased as may be furnished either by order of the Society or voluntarily by any friend of the deceased, & that the memoir read by D^r. Barton be inscribed in said book." Adopted.

"Dr. Hossac of New York read a paper on the laws governing the communication of contagious diseases." Referred to Wistar, Hewson, Chapman.

Election of a new member: Mr. Robert Adrain, of New Brunswick, New Jersey.

1812. Aug. 22. ("No quorum.")

1812. Sept. 18. (Patterson; Barton, Collin, Mease, Williams, Du Ponceau, D. R. Patterson, Vaughan.)

Donations: Œuvres de Turgot, Vol. I, 8°; Am. Med. and Phil. Register, Vols. I, II, 8°.

Sand and dust thrown up by Eruption of St. Vincent's in June, 1812, from Geo. Hallam, of Connecticut, through Talbot Hamilton. "The vessel on whose deck they fell was 50 miles from St. Vincent's." Also another specimen from the deck of the *Halcyon*, when 80 miles distant; presented by Dr. Betton.

Minerals from Cornwall, from Mrs. Hannah Barnard, of Hudson, New York.

1812. Oct. 2. (Patterson; Barton, Nichols, Williams, Mease, Chapman, D. R. Patterson, Vaughan.)

Donations: Lowber's Ordinances of Phila., 8°, 1812; Haworth's Synopsis Plantarum, 8°, 1812; Flora Batava, by Sepp and Kops, Nos. 28 to 33 (34 wanting), 35 to 38,* 4°; Tondi's Tableau; Synoptique d'Oreognosie, 8°, 1811.

Lava from Mt. Etna, brought by the late General Eaton.

[.] Duplicate 36.

1812. Oct. 16. (Wistar; Barton, Patterson, Williams, Nichols, Correa, Collins, Collin, Allison, Dr. N. Patterson, Vaughan, Mease.)

Donations: Gouan's Hist. des Poissons, 4°, 1770 (with Latin version); Wilson's Ornith., Vol. VI.

1812. Nov. 6. (Barton; R. Patterson, Williams, Correa, Nichols, Mease, R. M. Patterson, Vaughan.)

Librarian reported a list of papers ready for publication. All delinquent Committees ordered to report.

Priestley's Eulogium: Dr. Barton's request for permission to withdraw it to be enlarged, and published separately, was referred for consideration to the next meeting.

Donation: Karasmin's Pantheon of the Russian Poets, Folo, from M. Svenin, who "added a translation of one of the articles;" Coxe's Emporium of Arts, &c., Vol. I.

1812. Nov. 20. (R. Patterson; Wistar, Barton, Williams, R. M. Patterson, Collins, Collin, Mease, James, Du-Ponceau, Vaughan, Nichols.)

Donations: Lava from Mauritius; Williamson's Hist. N. Carolina, 2 Vols., 8°, 1812; Trans. R. Swed. Acad., 1806–1811.

Verbal communication on towing boats, especially with a long painter, by Jon. Williams, was ordered to be reduced to writing.

Dr. Barton's request granted. (Vide Nov. 6.)

1812. Dec. 4. (Wistar; Correa, Matlack, Nichols, Vaughan.)

Hossac's "Observations &c.," reported for publication.

No paper offered for the Magellanic premium.

Dr. Barton read "Observations on *Phalæena tinea*, &c.," by J. W. Referred to Correa, Hewson and Collins.

1812. Dec. 18. (Barton; Vaughan, Correa, Hare, Nichols, Wistar, Mease, Collin, Dr. Patterson, Hewson.)

Report on J. W.'s "Observations &c.," laid over. Dr. Barton read additional Observations, by J. W. Referred.

Donation: Henry Lee's Memoirs of the War, 2 Vols., 8°.

1813. Jan'y 1. Between 2 and 5 p. m. (R. Patterson, Dr. B. S. Barton, Mr. Collins, Dr. Chapman, R. M. Patterson, Jos. Cloud, J. DeCorrea, Jon^{n.} Williams, P. S. Du Ponceau, Dr. Abercrombie, Dr. Andrews, Jno. Vaughan, Dr. Collin.)

ELECTION OF OFFICERS.

President—Thos. Jefferson.

Vice-Presidents—R. Patterson, Dr. B. S. Barton, Dr. Wistar.

Secretaries—Dr. T. C. James, Hewson, Chapman, R. M. Patterson.

Councillors-White, DuPonceau, Williams, Binney.

Councillor for one year, vice J. B. Smith—Ed. Pennington.

Curators-R. Hare, Z. Collins, J. R. Smith.

Treasurer-Jno. Vaughan.

1813. Jan'y 15. (Mr. Patterson; Collins, Williams, Correa, Vaughan, W. Barton, Collin, Allison, Barton, Dr. Patterson, James, Hewson, Wistar.)

Donations: Davy's Elements, I, i, 1812; Cat. Lib. U. S. Capitol, 8°, 1812.

Librarian elected: Jno. Vaughan.

"Improvement on Ship-pumps," presented July 17, 1795, was returned to the author "at his particular request," through its original presenter, Mr. Patterson.

1813. Feb'y 5. (Wistar; Binney, Williams, Smith, Nichols, Vaughan, Mease, Hewson.)

Donations: Ewing's System, 8°, 1809; Mellish's Travels in

U.S. in 1806-1811, with 8 maps, 2 Vols., 8°, Phil., 1812, presented by the author; and two pamphlets.

1813. Feb'y 19. (Col. Williams; Vaughan, Collins, Correa, Barton, Collin, Currie, Dr. Patterson, Hewson.)

Committee on J. W.'s paper on the Beehive Insect (Dec. 4, 1812), with additional observations by Dr. Barton, was reported for publication in the Transactions.

- 1813. March 5. (Patterson; Cloud and 7 others.)
- 1813. March 19. (Patterson; and 8 others.)
- 1813. April 2. (Williams; and 6 others.)

1813. April 16. (Wistar; Coxe, Bolman, Mease, Chapman, Hewson, Conover, Currie, James, Barton, Seybert, Stoughton, Collin, Abercrombie, Nichols, Pennington, Correa, Binney, Williams, Vaughan, Tilghman, Collins, J. R. Smith, Hare.)

Donations: R. S. Phil. Trans., 1807 to 1812, 4°; Archæologia, XVI, 4°; Trans. Soc. Arts; Hort. Soc., London, Vol. I, 4°, 1808–1812; and Coxe's Emporium, Vol. II.

Paper: Outlines of an original plan for exciting a laudable ambition in schools of learning by Rev. Tim. Alden. Referred to Stoughton, and Abercrombie.

Election of seven new members: Andrew John Retzius, Professor Natural History, Astronomy, Chemistry, Lund; Constant Dumeril, Professor Zoöl., Jardin des Plantes, Paris; Alex. Wilson; Geo. Pollok; Ben. R. Morgan; John Sergeant, and Nicholas Biddle, all of Philadelphia.

Mr. Nichols was appointed to ascertain the materials for publication, and what printer would undertake it.

1813. May 7. (Patterson; and 12 others.) Report on Alden's paper, read and adopted. Mr. Nichols reported progress.

The By-law regulating that future Volumes of Transactions should be in 8°, was ordered for reconsideration at the

next meeting.

New By-laws proposed by Dr. Coxe and Mr. Williams for consideration at the next meeting; respecting, 1. List of members; 2. Classification of members, into (a) Resident (b), Honorary (c), Foreign; Resident, not to exceed 100, and be citizens of the State; Honorary, not to exceed 2 from each State; Foreign, to be of distinguished abilities, &c.; 3. No elections to be held until vacancies occur; 4. An annual oration at the first meeting in January; 5. Catalogue of the Library to be printed forthwith.

1813. May 21. (Wistar; and 10 others.)

Mr. Nichols had found no bookseller willing to undertake the publication of the Transactions.

Donations: Hosack's Register, Vol. III; Connoisance des Temps, 1807; Wilson's Ornithology, Vol. VII; Obs. siderum, Pisa, 1789 and 1793; Grégoire's Notice des Travaux, 1812; and two inaugural dissertations.

Dr. Coxe spoke of the growth of Peach trees from cuttings.

Dr. Coxe's and Dr. Barton's propositions postponed two weeks.

1813. June 18. (Dr. Collin; Mease, Correa, Nichols, Biddle, Williams, Duponceau, Vaughan.)

Nichol's report on publications read, and laid on the table. Donations: Smith's Laws of Pa., Vol. V.; Trans. Edin. R. S., Vol. VI; four pamphlets of Vauquelin; and a trans. from the Swedish, Le Zodiac expliqué, of G. E. S., Paris, 8°, 1809.

Mr. Jona. Williams read "Meteorological imaginations," a MS. found among his papers; "it is a press-copy indorsed in the hand-writing of Dr. Franklin, & defects supplied in

pencil by the Dr. It relates to the Fog, 1803. It is a fragment." Referred to Williams, Patterson and Corréa.

Dr. Coxe's motion (May 7), postponed to Oct. 2.

Dr. Barton's motion (May 7), postponed to Oct. 2.

1813. July 16. (R. Patterson; and 7 others.)

Donation: Buchanan's Christian Researches in Asia. Dr. Barton's motion respecting size of Vol. postponed to Oct. 2, and notice to members ordered.

1813. Aug. 20. (Patterson; and 7 others.)

Donations: Haüy's Des cristaux de Pyroxène; and Delambre's Analyse des Travaux, &c., 1812.

Dr. Barton read a letter on the subject of American Antiquities.

1813. Sept. 17. (Williams; and 6 others.)

Donations: Dalton's New System, L, i, 1808, ii, 1810; Mem. L., and P. S., Manchester, Vol. II.

A letter from S. B. J. Noel de la Morinière requesting information for his "L'histoire Nat. et Pol. des poissons utiles," was read:

"Resolved, That M. de Morinière be informed that the Soc. will communicate his wishes to such members as have attended to the subject & procure from them the information desired, and that Dr. B. S. Barton be particularly requested to give his aid."

1813. Oct. 2. (Barton; Williams, R. Patterson, Vaughan, Nichols.)

Committee on Franklin's "Meteorological imaginations," reported that it had been published in Vol. II of the Manchester Memoirs.

H. M. Brackenbridge's letter to Jefferson, July 25, 1813, giving "his ideas on the Tumuli & population of the Aborigines of N. A.," was referred to Barton, Patterson and Vaughan.

Dr. Barton's and Dr. Coxe's resolutions were further postponed, no quorum being present.

1813. Oct. 16. (Barton; Collin, Abercrombie, Binney, Williams, Nichols, Vaughan, Collins, Chapman, James, Sergeant, Hare, Hewson, Morgan, Patterson.)

Donation: Additional Obs. on the Opossum, Barton.

Election of five new members: Dr. W. P. C. Barton, Wm. Meredith, Charles Chauncey, Reuben Haines, Wm. Hembel, Jr., all of Philadelphia.

Purchase ordered: Westring's Hist. Swed. Mosses, 8°, 1805, from Dr. Collin.

1813. Nov. 5. (Wistar; Patterson, Vice-President; Collin, Hewson, Smith, Vaughan, Barton, W. P. C. Barton, Hembel, Haines, R. M. Patterson.)

Donations: Trans. Hort. S., Lond., II, i; Com. Mass. Med. S., 2 Vols., 1808–1813.

1813. Nov. 19. (Wistar; Collins, Pollock, Williams, Vaughan, Nichols, Du Ponceau, Mease, Hewson.)

Donation: Muhlenberg's Cat. Plants of N. A., 8°, Lancaster, 1813.

- 1813. Dec. 8. (Patterson, Vice-President; Williams, Vaughan, Haines, Hare, R. M. Patterson.)
- 1813. Dec. 17. (Patterson, Vice-President; Williams, Collin, Allison, Bolman, Curry, Hewson, Dr. Barton, Jr., Haines, Morgan, Nichols, Vaughan, R. M. Patterson.)

Donations: Dufief's Nature Displayed, Spanish, 2 Vols., Stockler's Cartas, &c., 8°, 1813; Barton's Mem. of Rittenhouse; Pinkerton's Maps of France, &c., Phil., 1813.

No candidates for the Magellanic Premium.

1814. Jan'y 7. (Collin, Hembel, Vaughan, R. Patterson, Nichols, Haines, Cloud, DuPonceau, Collins, Chapman, Williams, R. M. Patterson, B. S. Barton, Barton, Jr.)

ELECTION OF OFFICERS.

President—Thomas Jefferson.

Vice-Presidents-Wistar, B. S. Barton, R. Patterson.

Secretaries—T. C. James, T. T. Hewson, R. M. Patterson, Reuben Haines.

Councillors—Cooper, Gibson, Pennington, Hare.

Councillor for one year-Meredith.

Curators—Collins, Cloud, Hembell [sic], Jr.

Treasurer-J. Vaughan.

1814. Jan'y 21. (Patterson; Vaughan, Duponceau, Williams, Meredith, Cloud, Correa, Haines, Hemphell [sic], Abercrombie, Barton, Patterson, Mease, Hewson, Currie.)

Donations: Accum's Chemistry, Phila., 1813; Cutbush's Chemistry, Phil., 1813.

Librarian elected: J. Vaughan.

Election of four new members: Dr. N. S. Allison, of Burlington; John E. Hall, of Baltimore; James Cutbush, of Philada.; and Rev. Fred. Beasley, Provost Univ. Pa.

1814. Feb'y 4. (Wistar; Patterson, Williams, Abercrombie, Vaughan, Beaseley, Collins, Haines, Dr. Patterson.)
Donation: Haüy's Essai, 4°, Paris, 1786.

Auditing Committee: Cloud and Haines.

"On the construction of Privies," by C. Varlé of Fredericktown, Maryland; referred to Haines, Patterson and Vaughan.

1814. Feb'y 18. (Patterson; Vaughan, Duponceau, Beasley, Williams, Correa, Haines, J. R. Smith, Wistar, Mease, Patterson, Allison, Hewson.)

Varlé's paper on Yellow Fever ordered to be filed, and

final report postponed, until his promised second paper be received.

Auditing Committee required more time.

Donations: Guenginé's Rapport, 4°, 1813; Bozman's Hist. Maryland, 8°, 1811; Mellish's Documents and Atlas of the War of 1814, 8°, Phil.; Taylor's Proclus, 2 Vols, 4°, Lond.. 1792.

1814. March 4. (Patterson; and 10 others.)

Auditors reported progress.

Donations: W. P. C. Barton's Marine Hospitals, U. S., 8°, Phil., 1814; Cutbush's Am. Artists' Manual. 2 Vols.. 8°. Palmer's Hist. Register, 2 Vols., 8°, Wash.; James' Burns's Midwifery, Phil., 2 Vols., 8°, 1813.

Catalogue of Library: "Col. Jon. Williams having some time ago voluntarily undertaken to make a Catalogue of all the Books belonging to the society, & having now accomplished that laborious task, in the most complete & scientific manner, therefore-

"Resolved, That the thanks of this Society be tendered to him for this very acceptable service."

Ballot-box:

"Resolved, That the thanks of the Society be given to Col. Williams for the very useful & ingenious balloting box which he presented to the Society, some considerable time since, but the acknowledgment of which appears to have been hitherto omitted."

"Resolved, That 250 copies of the Constitution & By-laws of the Society

be printed for the use of the members."

Committee: Williams and Patterson.

1814. March 18. (Wistar; Hembele [sic], Jr., and 8 others.)

Committee on printing Constitution reported progress. Committee on Jefferson's letter about standard weights and measures reported progress.

Donations: Report of Lancaster Bridge Co.; Michaux's Hist. Arbres. For. 11, 12-15, 16-3, 4.

1814. April 1. (Patterson; Vaughan, Collins, Cooper, Hembel, Duponceau, Williams, Drs. Patterson, Wistar, Barton (W. P. C.), Chapman, Hewson.)

Committee on printing Constitution reported the expenses

\$35.25. Bill ordered to be paid.

Donations: Wilson's Ornithology, Vol. VIII; J. E. Smith's Int. to Botany, reprint, 8°, 1814; Jefferson and Livingstone on the disputed Batture at New Orleans; Humboldt and Bonpland's Voyage, 3d part, 2 Vols., 4°, Paris, 1811 [original cost \$70, purchased and presented by 14 of the members whose names are given].

Mr. Vaughan communicated a draft and description of a circular cylinder pump by Josh. Humphreys; referred to

Patterson, Hembell and Williams. Also,

Hints respecting the spotted fever now raging at Kennebec; printed at Hallowell, Maine.

1814. April 15. (Patterson; Correa, Barton, Cloud, Abercrombie, Haines, Hare, Chapman, James, Wistar, Patterson, C. Smith, Meredith, Cutbush, Sergeant, Hembell, DuPonceau, Briggs, Williams, Vaughan.)

Report of Committee against publishing Humphrey's

paper accepted.

Audit of Treasurer's accounts showed due by him: on the Magellanic Fund, \$620.15; on the Rittenhouse Fund, \$1.07; total, \$621.22; due to him, on general account, \$427.41, Report accepted.

Donations: S. Mills' Specimen of the Iroquois language. sent by Jefferson; Franklin's Miscellanies, Lond., 8°, 1779; Cooper's Emporium, II, iii; Palmer's Constitution of the Spanish Monarchy, 8°, 1812, Phil., and various pamphlets.

Election of three new members: Rev. James P. Wilson,

D.D., and Thos. Gilpin, both of Philadelphia; Brig. Gen. Jos. Gardiner Swift, Commander Corps Engineers and United States Military Academy.

1814. May 6. (Wistar; Vaughan, Haines.)

Donations: Michaux's Hist. Arbres Forestiers, 17-24, completing the work in 3 Vols., and two other pamphlets.

1814. May 20. (Patterson; and 10 others.)

Subjects recommended by the Board for premiums.

A. Magellanic Premium.

1. For the best explanation of the action of adjutges [sic] in accelerating the discharge of water from an orifice.

2. For the most simple & accurate instrument for finding a true meri-

dian, capable of being used in ordinary surveying.

- 3. For the best artificial horizon, for taking altitudes on the land, by the reflecting sextant &c, to be so constructed as to serve for ascertaining the greatest altitudes.
- 4. For the most accurate & practicable method of ascertaining from the Pendulum a universal standard of lineal measures.

B. Extra-Magellanic Premium.

 For the best invention or improvement dependent on mechanics & applicable to useful purposes.

2. For the best invention or improvement dependent on chemistry &

applicable to useful purposes.

3. For the best & most useful memoir on any subject dependent on Natural History.

Report referred to R. M. Patterson, Vaughan and Cloud. Donations: New maps and memoir of Clarkson.

"On the fusing temperature of metals;" by Jos. Cloud; read and referred to Patterson, Hembel and Hare.

A plaster cast from the plaster bust of Franklin was permitted to Mr. Miller.

1814. June 17. (Wistar; and 14 others.)

Cloud's paper reported for publication.

Donation of a new differential thermometer by DeButts, Baltimore.

"Obs. on the irritability & contractility of nervous matter," by Baron Fred. de Bretton; read and referred to Barton, Wistar and Hewson.

Donations: DeBreton's Vie de Huyden, 4°, 1812, and five other books; also Engravings for Bell's Anatomy.

1814. July 15. (Barton; Wistar, Patterson, Vaughan, DuPonceau, Beasley, Curry [sic], Short, Gibson, Hewson, Mease, Collins, Patterson.)

Report of the Committee on publishing the Report of the Board of Officers, accepted.

DeBretton's paper reported for publication.

Donations: Two heads (mutilated) from Big Bone Lick, with a descriptive letter from Jefferson; Zirconite, Amber, and Carbonized wood found with the amber, near Crosswick's, N. J., from Sol. W. Conrad. Three books.

Election of two new members: Hon. Dewit [sic] Clinton, President New York Philosophical Society; and John Gummeré, of Burlington, New Jersey.

1814. Aug. 19. (Patterson; Gummeré, and 12 others.)

Donation: Garnett's Nautical Almanac.

"On the Gregorian Calendar," by Mr. Lambert, of Washington; read and referred to Gummeré, Patterson and Williams.

Description of his thermometer, by Mr. DeButts; read referred to Cloud, Seybert and Barton.

A remarkable Solar Corona, July 30, 1814, was described in a letter from C. Brown, of Harper's Ferry.

1814. (No date.) Present, Williams, Collins, Vaughan.

1814. Oct. 7. (Patterson; Duponceau, Vaughan, Hare, Williams, Beasley, Collins, Gummeré, Biddle, Patterson.)

Lambert's paper reported on, and filed away.

Cloud's paper reported for publication.

DeButts' paper. Hare substituted for Seybert (absent from the city) on the Committee.

Committee on Breckenridge's paper, October, 1813, ordered to report.

Donations: Wilson's Ornithology, Vol. IX, completing the series; Pozzo's Rules of Perspective, translated into English and Latin from the Roman edition of 1693, by J. James, Lond., Fol^o.

"An investigation of the Figure of the Earth and of the gravity in different Latitudes," by Prof. Adrain, of New York; read and referred to Gummeré, R. Patterson and R. M. Patterson.

1814. Oct. 21. (Wistar; Barton, Patterson, Williams, Meredith, Hembell, Jr., Short, Cloud, Biddle, Hewson, Curry, Patterson.)

DeButts' paper reported for publication.

Adrain's paper reported for publication.

Donations: Mellish's Desc. Roads of U. S.; Herriot's Travels in Canada; Barton's Archæologiæ, &c.; Trans. R. S. Edin.; Archæologia, Lond., 4°, 1814; Coll. N. Y. Hist. S., Vols. I and II, 1811, 1814.

Rent: "An application from the College of Physicians was made by D^{r.} Hewson relative to lowering the rent paid for the apartment they use in the Building of the Society. This business was referred to R. Patterson, Col. Williams & Mr. Vaughan."

Election of two new members: John G. Biddle; and John Syng Dorsey, M.D., both of Philadelphia.

1814. Nov. 4. (Patterson; Wistar, Duponceau, Williams, Short, Vaughan, R. M. Patterson.)

Rent: Committee report, that the rent should not be changed, agreed to.

Donations: Hist. Reg. U. S., Vol. III; Pinkerton's Atlas, No. 3; Medicina Statica; Hippocratis Aphorismi, 2 Vols., 8°; Cooper's Emp. Nos. 2, 3; Gummeré's Surveying.

"On the formation of Sphenoidal Sinuses &c," "with elegant preparations," by Dr. Wistar; read and referred to Hewson, Chapman and Dorsey.

1814. Nov. 18. (Williams; Short, Collins, Vaughan, Hewson.)

Donations: Arthur's St. Clair's campaign in 1791, 8°, 1812; Ames' works, 8°, 1809; Pike Expeditions in 1807, 8°, 1810; and pamphlets; Lindenau's Tabulæ Veneris, 4°, Gothæ, 1810; his Tables barometriques, 8°, Gothæ, 1809; his Versuch, 8°, Gothæ, 1811; Feburier's Abeilles, 8°, Paris, 1810; and 6 Vols. of various memoires of the Institute of France.

1814. Dec. 2. (Barton; Wistar, Patterson, Williams, DuPonceau, Hewson, Hare, Haines, Correa, Patterson.) Jefferson's letter of resignation to R. M. Patterson:

MONTICELLO, Nov. 23, '14,

I solicited on a former occasion from the American Philosophical Society to retire from the honor of their chair, under a consciousness that distance as well as other circumstances denied me the power of executing the duties of the Station, and that those on whom they devolved were best entitled to the honors they confer. It was the pleasure of the Society at that time that I should remain in their service, and they have continued since to renew the same marks of their partiality. Of these I have been everduly sensible, and now beg leave to return my thanks for them with humble gratitude. Still I have never ceased, nor can I cease to feel, that I am holding honors without yielding requital, and justly belonging to others. As the period of election is now therefore approaching, I take the occasion of begging to be withdrawn from the attention of the Society at their ensuing choice, and to be permitted now to resign the office of President into their hands, which I hereby do. I shall consider myself sufficiently honored, in remaining a private member of their body, and shall ever avail myself with zeal, of every occasion which may occur of

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being useful to them, retaining indelibly a profound sense of their past favors.

I avail myself—&c. &c.

TH. Jefferson.

"The Society directed that this letter should be inserted in the Minutes, but they declined taking any particular order on it; thus adopting the same course which was pursued, on a similar occasion, in December 1808."

"An account of a case in which one side of the Thorax was dilated while the other was at rest," by Dr. Wistar; read and referred to Hewson, Barton and Patterson.

No communications for the Magellanic Premium.

A new Minute book for Transactions, and a new Minute book for Donations, ordered. The books "to be used from the beginning of the approaching year."

1814. Dec. 16. (Patterson; Williams, Correa, Vaughan, Hewson, Hare, Dorsey, Haines, Curry, Collins, Patterson, Wistar.)

Auditing Committee: Collins and Patterson. [All the rest of this volume, blank leaves.]

Volume marked on the back, 1815-1824.

Note on fly-leaf: "The notice of Donations is inserted in a separate Book."

Note on fly-leaf: "Councillors chosen 1814 to serve to January 1817; Thomas Cooper, James Gibson, Edward Pennington, Robert Hare."

Stated Annual Meeting.

1815. Jan'y 6. (Drs. Barton, Collin; Messrs. Patterson, Du Ponceau, Vaughan and W. P. C. Barton, at organization, at $2\frac{1}{2}$ o'c, P. M.; afterwards Hembel, Cloud, Wilson, Binney, Ch. Smith, Gilpin, General Williams, Haines, Staughton, Hare, Patterson, Parke, Rawle, Morgan, Fox, J. G. Biddle, Meredith, Collins, Tilghman, Wylie, Mease, Chauncey, Conover, Hewson, Corrêa, Dorsey, J. R. Smith = 33.)

ELECTION OF OFFICERS.

President—Caspar Wistar.

Vice-President—R. Patterson, B. S. Barton, Jon. Williams. Secretary—T. C. James, T. T. Hewson, R. M. Patterson, N. Chapman.

Councillors—N. Collin, W. Tilghman, A. Ellicott, W. Meredith.

Curators-Z. Collins, Jos. Cloud, W. Hembell, Jr.

Treasurer-John Vaughan.

"The result of the election was directed to be published in the papers, with notice of the resignation of Thomas Jefferson. Adjourned."

[Signed] R. M. Patterson, Secretary.

1815. Jan'y 20. (Wistar; Patterson, Williams, Vaughan, Collins, Barton, Jr., Hembel, Mease, Cloud, Beasley, Hare, Correa, Haines, Patterson, 14.)

Letter to Jefferson voted:

"SIR,

"The American Philosophical Society, after having, at several periods, withstood your solicitations to be withdrawn from their presidency, have at length, with great reluctance, felt themselves obliged to yield to the decided resignation, expressed in your letter of the 23^d of November last, and have, accordingly, elected Dr. Caspar Wistar to that office.

"The important connection which has subsisted, for eighteen years, between yourself and the Society, being thus dissolved, the Society avail themselves of the opportunity of expressing to you their warmest thanks for the very valuable services which you have rendered them, and of soliciting the continuance of the friendly attentions which you have always shown to their interests.

"The Society add the expressions of their attachment and respect, and their sincerest wishes for your happiness." •

Auditing Committee reported finding in the Treasurer's hands, January 1, 1815:

On general account	\$66	33
Magellanic Fund	906	54
Rittenhouse Fund	10	30

"Donations from Dr. Dorsey, C. W. Short, Rev^{d.} T. Alden, N. Y. Soc. Arts, Jon. Williams."

Librarian chosen: J. Vaughan.

1815. Feb'y 3. (Patterson, Wistar, Williams, Barton, Jr., Vaughan, Gilpin, Haines, Correa, Patterson.)

Donation from Z. Collins.

Deposit by Col. Williams: "A very large & elegant Military Map of the Vicinity of Philadelphia, made from actual survey, for the Committee of Defence of the City, by Messrs. Strickland, Brooke and Kneass."

1815. Feb'y 17. (Williams; Vaughan, Smith, Wistar, Currie, Binney, Gibson, Duponceau, Dorsey, Chapman, Meredith, Patterson, J. Biddle, Correa, W. Barton, Haines, N. Biddle, James, Sergeant, Hewson.)

Fulton's model of his Torpedo Boat was deposited by Col. Williams in the Collection of the Society.

Report of Board of Officers on classifying members and organizing Standing Committees, was read, and printed copies ordered for distribution among the members.

Lead ore from Wythe county, Virginia, from R. E. Hobart was referred to Dr. Patterson and Mr. Collins.

1815. March 3. (Wistar; Dr. W. Barton and 15 others.)

Brackinridge's paper reported for publication. Wistar's paper on the Othenoid bone for publication. Jefferson's reply was read:

MONTICELLO, Feb'y 8, '15.

SIR,

I am honored with your letter of Jan'y 20, conveying to me the flattering sentiments which the American Philosophical Society have condescended through you to express on my resignation of the office of President, in which they had been pleased so long to continue me. I receive them with equal Sensibility, and gratitude. The motives for withdrawing from a station, the duties of which could not in my situation be fulfilled, were truly

expressed in my letter of Nov. 23. They had been conscientiously felt when, on a former occasion, I asked a like permission, and so continued to be; and I trust it is seen that I have rendered a service in giving an occasion for a choice of a successor so eminently meriting the honor, so fully equal to its duties, and in place to perform them. In retaining still the character of a member of the Society I am gratified by the idea of a continued fellowship with them, and shall never be more so than on occasion of being useful to them.

Praying you to present them the homage of my dutiful respects, permit me also to add my obligations to yourself personally for the friendly terms in which you are pleased to make their communication, and accept the as-

surance of my great consideration and esteem.

THOS. JEFFERSON.

M^{r.} Correa read a paper on the Soil of Kentucky. Referred to Dr. Patterson, Chapman, Williams.

Donations from Dorsey, Jones, Vaughan.

"Certain heads of division into classes," proposed by the Board, being read, the subject was postponed to the next meeting.

1815. March 17. (Williams; Vaughan, James, Collin, Biddie, Duponceau, Chapman, Haines, Gilpin, Patterson, Tilghman, Beasely, Dr. Patterson, Dr. Barton, Seybert, Correa, Currie, Hare and Hewson.)

Deposit by Col. Williams: Several drafts of the Fortifications erected for the defence of New York.

Donations from J. Vaughan and Dr. W. P. C. Barton.

The classification of members into different departments was discussed. "The sense of the Society having been taken on the first paragraph, the further consideration of the subject was postponed, in order to introduce the following resolution:

"Resolved, That a Seventh Committee be added to the Six, already established by the Twelfth Fundamental law, to be denominated 'the Committee of History, Moral Science, and General Literature.'"

Which was adopted.*

^{*}This was in fact the birth of the Historical Society of Pennsylvania.

The report of the Board was again considered, "and the Question being taken it was passed in the negative."*

1815. April 7. (Mr. Patterson; Vaughan, Dr Patterson, Dr. W. Barton, Meredith, Haines, Duponceau, Wistar, Morgan, Tilghman, and Mr. Smith, of Lancaster.)

Dr. Wistar's paper on a case of paralyzed Thorax (see Dec. 2, 1814), was reported for publication.

Book for enrolling the members of the Standing Committees, reported by the Librarian, ready for use.

Historical Committee's first meeting "appointed for next Friday evening."

Donations from S. W. Conrad, R. M. Patterson, M.D., Robt. Mayo, M.D., DeWit [sic] Clinton, Robt. Mills.

1815. April 21. (Wistar; Vaughan, Collins, Currie, Gummere, Haines, Gilpin, Cloud, Duponceau, Patterson, Dr. Patterson, Wylie, Dr. W. Barton, Chapman, Correa.)

Correa's paper on Kentucky Soil reported for publication. Election of six new members: Dr. Sam. Colhoun; John M. Scott; Dr. Jos. Hartshorne; Dr. Jos. Parrish; Chas. J. Ingersoll, Esq; and Rev. James Gray, D.D.+

Donation from David Hossack.

1815. May 5. (Patterson; Scott, Gray and Hartshorne, and 6 others.)

Donations from Vaughan, Chapman, S. W. Conrad.

1815. May 17. "Special meeting to make arrangements for attending the funeral of their late Vice-President Jonathan Williams." Present, 15 members.

Procession appointed for 10 A. M., May 18.

^{*}That is, no difference of membership has ever been established; so strong has always been the tradition of following the example of the Royal Society.

[†]In lead pencil is written, "Rev. James Gray, D.D., was elected at this meeting and subsequently signed the constitution. F. B."

Dr. Nat. Chapman appointed "to deliver before the Society in their Hall a Biographical account of their late Vice-President, to be recorded in the manner pointed out by the Resolution of 17 July 1812."

1815. May 19. (Duponceau; Vaughan, Haines, Parrish, Hembell, Correa, Dr. W. Barton, Colhoun, Dr. Patterson, Morgan, Chapman.)

Donation from Mr. Redman Conyngham consisting of "the fragment of an Indian Vase," found on Buck mountain, three miles from Conyngham, Lucerne [sic] county, Pa., "in a cavity that had been entirely closed by an immense rock, and which was lately thrown down the mountain by some unknown convulsion."

Mr. Correa pointed to the marks on the fragment in evidence that it had been made inside "a mould of basket work" after the Cherokee fashion.

Donations from Duponceau, Chapman, Short.

1815. June 16. (R. Patterson; Cutbush, Pollock, Gray, Hossack, Scott, and 14 others.)

Dr. W. P. C. Barton read a paper on Malaxis Correana; paper and drawing referred to Correa, Collins and Hossack.

"On converting an alternate into a rotatory motion," by Mr. Croker, of Georgia; referred to Patterson, Gilpin and Hembel.

Historical Committee. Certain resolutions passed by the Committee defining the duties and powers were referred to the next meeting.

Mr. Conyngham's communication on the Indian Vase (see May 18), was referred to Wistar, Du Ponceau and Mease.

Dr. Wistar's plan of historical research postponed.

Donations from Dr. Barton, Jas. Webster, Dr. Wistar, J. P. Norris, Jos. Reed, J. Vaughan, and Conn. Acad. Arts. (Two large historical collections are mentioned.)

1815. July 21. (Wistar; Colhoun, Sergeant, Meredith, and 12 others.)

Mr. Croker's paper was reported on. His "three projects are very ingenious & plausible; but they have not been tested by any experiment, & their novelty is very doubtful, although they are unquestionably original with the author." Paper ordered to be preserved on file.

"Obs. to determine the Long. of Washington," by Mr. Lambert; referred to Patterson, Hewson and Colhoun.

Historical Committee. Resolutions discussed and adopted:

"Resolved, That it be the duty of the Committee of History, the Moral Sciences and General Literature, to use their endeavours to form a collection of original documents, such as official and private letters, Indian treaties, ancient records, ancient maps, and such other papers as may be calculated to throw light on the History of the United States, but more particularly of this State, to be preserved among the archives of this Society, for the public benefit.

"Resolved, That it be further the duty of the said committee to take such measures as to them shall seem most proper, for the purpose of obtaining from able and intelligent persons in the U. S., but more particularly in this State, correct information on matters connected with the history, geography, topography, and antiquities, and statistics of this country.

"Resolved, That the said committee may, if they please, extend their inquiries to other parts of the continent and islands of America, and pro-

cure the best information in their power relative thereto.

- "Resolved, That whenever, in the opinion of the said committee, sufficient materials shall have been collected for that purpose, it shall be lawful for them to select such parts thereof, as they shall think proper, and publish the same in volumes, numbers or in any other form, by subscription or otherwise, as they shall deem most expedient. Provided always that this Society shall not be in any manner responsible for such publication; but the same shall be made under the sole responsibility of the committee, or of the members whom they shall appoint to superintend the same; and Provided also that no expense shall be incurred to this Society, nor shall their funds be in any manner or on any account pledged by the said committee or any of its members without an express order or appropriation regularly made for that purpose in conformity with the tenth article of the fundamental Laws.
- "Resolved, That the said committee shall, from time to time, report their progress to the Society; and at all times when called upon by the Society."

Dr. Wistar's "Hints for the best mode of conducting the inquiries of the Historical Committee," was then "referred to the Committee with directions to act upon it."

College of Physicians. Letter requesting abatement of

rent, read. [No action recorded.]

Election of three new members, all of Philadelphia: Joseph Hopkinson, Charles W. Hare, and Joseph P. Norris.

Donations from the St. Petersburg Academy, T. Cooper, J. Vaughan.

1815. Aug. 18. (Wistar; and 10 others.)

Report on Dr. W. P. C. Barton's Malaxis, read and adopted.

Committee on Lambert's paper continued.

Committee on College of Physicians' letter continued.

Donations from Dr. Wistar, Dav. Hall, Lasteyrie, Jos. Read [sic], Webster, Gregoire, Brackenridge, and R. S., St. Petersburg.

Mr. Tatham, of Washington, applied through Dr. Mease, for the return of his "Analysis of Longevity," presented in 1807.

1815. Sept. 15. (Patterson as Vice-President; and 12 others.)

Donations from Cloud, Raguet, Vaughan and Mass. Hist. Soc.; Spec. of Disthene from Chester Co., from Mr. Cloud.

Purchase of Prony's Architecture Hydraulique authorized.

Tatham's application renewed, and the Librarian authorized to deliver it for perusal provided it be returned in a month.

1815. Oct. 6. (Wistar; Mr. Patterson, Du Pont de Nemours, Irenée Du Pont, Duponceau, Binney, Polloek, Vaughan, Izard, Gummeré, Nicholls, Mease, Morgan, Beas-

ley, Sergeant, Hopkinson, Briggs, Hewson, Seybert, W. P. C. Barton, Colhoun, Patterson; 22.)

Donations from Acad. St. Petersburg, Mellish, Hecke-welder, Vaughan, Wistar; and (with a letter) from Adrien G. Camper, of Franchin, Friesland.

"On the English words County and Commonwealth," by Mr. Dupont de Nemours; read and referred to Duponceau, Binney and Hopkinson.

Clock in the front of the Society's Hall. Mease and Nicholls, appointed a Committee to report "a plan for its future management."

Historical Committee's regular meetings fixed for each Monday following a regular meeting of the Society.

1815. Oct. 20. (Wistar; and 13 others.)

The Clock would be kept in order by Mr. Parker gratis, until further report.

Donations from Mass. Hist. S., and Jas. McMurtrie.

1815. Nov. 3. (Collin; Meredith, Gibson, Collins, Morgan, Short, Nicholls, Barton, Jr., Vaughan, R. M. Patterson.)

Donation from Jos. Reed, Esq.

"On a method of finding by addition alone, the sum of the products of any number of factors," by Jas. Austin; read and referred to R. M. Patterson, Hassler, Gummeré.

1815. Nov. 17. (Patterson; Collin, Abercrombie, Hall, Seybert, Currie, Colhoun, Gibson, Wharton, Hare, Duponceau, Hassler, Parrish, Vaughan, R. M. Patterson.)

Donation from E. Kimber and J. Vaughan.

Historical Documents at Harrisburg. A letter from R. Conyngham urged the Society to give its attention to this "very valuable collection." Referred to the Hist. Committee.

1815. Dec. 1. (Wistar; R. Patterson, J. Gilpin, T. Gilpin, Morgan, Hassler, Currie, Hembel, Barton, Jr., Hewson, Cutbush, Colhoun, R. M. Patterson, Vaughan, Nicholls, Ingersoll.)

No papers for the Magellanic Premium.

Donation from B. S. Barton.

Librarian directed to import Thomson's Annals of Philosophy from the commencement and to take it regularly.

1815. Dec. 15. (Patterson; and 14 others.)

An abstract of the paper by Jas. Austin, of Lycoming county, Pa., was reported and adopted.

Historical Committee reported its organization: W. Tilghman, Chairman; P. S. Duponceau, Corresponding Secretary; J. Vaughan, Recording Secretary; a Book of Minutes; several meetings; and extensive correspondence.

Clock in front of the Hall to be kept in order by Mr. Parker, so that "the Publick may confide in it as a correct regulator of time."

Donations from G. Graberg di Hemso, Abbé Gregoire, D. de Nemours, Veter. Soc., Copenhagen E. Viborg, Sec'y, and F. R. Hassler.

"On cramp," by Dupont de Nemours, was referred to Hewson, James, Barton, Jr.

"On the genus Bartonia," by B. S. Barton; referred to W. Barton, Collins, Correa.

Historical Committee allowed to change from Monday to Wednesday.

Auditing Committee: Haines and Colhoun.

1816. *Jan'y* 5. (13 present.)

ELECTION OF OFFICERS.

President—Caspar Wistar.

Vice-Presidents—Robt. Patterson, W. Tilghman, P. S. Duponceau.

Secretaries—T. C. James, N. Chapman, T. T. Hewson, R. M. Patterson.

Councillors—W. White, Hor. Binney, J. Sergeant, W. Rawle.

Curators—Z. Collins, Jas. Cloud, S. Colhoun. Treasurer—J. Vaughan.

1816. Jan'y 19. (Wistar; Messrs. Patterson, Duponceau, Cutbush, Nichols, Josh. Gilpin, T. Gilpin, Cooper, Gibson, Rawle, Haines, Collins, Vaughan, Corréa, J. R. Smith, Drs. Collin, Seybert, Barton, Mease, Bolman, Currie, Beasley, Allison, Colhoun, Patterson, Chapman, Parrish, 27.)

Donations from Lond. R. S., Hort. S. and S. Arts; Jos. Reed, McMahon, B. D. Warden, Michaux, Hodge and Dearborn.

"On the head bones of an animal found at Big Bone Lick by Gen. Clark," by Dr. Wistar, was referred to Collins, Corréa and Mease.

"On Animal Heat" (criticising Ellis of Edinburgh), by Dr. Currie; was referred to Seybert, Wistar and Cutbush.

"Early Obs. on the Delaware climate, from Swedish records," by Dr. Collin; was referred to Duponceau, Tilghman and Wistar.

Librarian elected: J. Vaughan.

Election of two new members: Gerhard Troost, of Maryland, and Jos. Reed.

1816. Feb'y 2. (Wistar; and 12 others.)

Dupont's paper; report read and adopted.

"Natural & Statistical view of Cincinnati," by Dr. Dan. Drake, sent with a letter from Jefferson.

Thanks voted to Mr. Sergeant for his zeal in obtaining Congressional documents.

Election to membership: Resolutions offered and referred to the Board of Officers:—

1. "That no person be admitted as a candidate for election into this So-

ciety, unless the Society shall have an opportunity of judging of his merits, either by a written communication made to them, or by some printed production known to the publick."

2. "That it be required of those who propose any candidate to accompany the proposal by a written reference to the papers or works on which his claims are founded."

Extra Magellanic Premium: Resolution offered and referred to the Board:—

"That the views of the Society relative to the extra-Magellanic fund, be extended so as to embrace the distribution or presentation of the premiums arising therefrom to the inventors or improvers of science generally, Medicine, Surgery or the Useful Arts."

1816. Feb'y 16. (Duponceau; and 16 others.)

Resolution proposed by Mr. Corréa at the last meeting [sic], was reported approved by the Board.

Donations from J. D. Farrer, La Fon and H. G. Spafford, of Albany, with a letter.

College of Physicians' rent: Committee reported. Report adopted. [No explanation given.]

Dr. Collin's paper: Report ordered to lie over.

Dr. Wistar's description of the "Osseous fragment from Big Bone Lick, presented by Mr. Jefferson," was read and referred to Corréa, Collins and Hewson.

"On the Geological formation of the Natural Bridge in Virginia," by Mr. Gilmer, of Va., was read and referred to Collins, Cooper and Hare.

1816. March 1. (Wistar; and 12 others.)

Extra-Magellanic Premium: The Board reported recommending an alteration of the terms so "as to leave to the discretion of the Society the amount of any premium to be given, instead of confining it between 20 & 45 Dollars." Report ordered to lie over.

List of subjects on which papers should be invited for the Magellanic Premium, reported by the Board and laid over.

Mr. Gilmer's paper reported for publication.

Dr. Barton's paper, on Bartonia (Dec. 15, 1815,): Committee requested to report at the next meeting.

Donations from G. Clymer, Duponceau, Vaughan.

Corréa's resolution postponed to next meeting.

1816. March 15. (Tilghman; and 27 others.)

Dr. Barton's paper: Committee's report adopted.

Donations from G. Clymer, T. H. Palmer, Vaughan, De Silver, Duponceau, Todd, Milner, Jos. Reed.

"A new method of investigating Conic Sections," by Dr. Patterson, was read and withdrawn by the author for completion.

Extra-Magellanic Premium: Recommendation of the Board of Officers adopted.

Magellanic Premium: Discussion of the list of subjects postponed.

Qualifications of candidates for membership: Discussion postponed.

1816. April 5. (Duponceau; and 24 others.)

Dr. Currie was permitted to withdraw his paper of January 19th.

Donations from F. Nicholls, D. B. Warden, Latour, Vaughan, T. Astley, P. Beauvois, Gregoire, Correa de Serra, Earle, W. Meade, and the State of Pennsylvania.

Magellanic list of subjects: Report of the Board adopted.

Extra-Magellanic report of the Board amended and adopted.

Qualification of candidate for membership: Resolution passed amended thus:

"Resolved, That every nomination of a new member shall be made in the form of an open letter addressed to the President of the Society and signed by two members at least.

"The letter shall state, in specific terms, the qualifications of the candidate; by what work or discovery he is known to the world as a man of literature or science; what valuable communication or communications

he has made to this or any other learned Society; or what other substan-

tial merits entitle him to membership.

"Resolved, also, That the names of the candidates and of those who have proposed them shall be read at every meeting, immediately after verbal communications."

1816. April 19. (R. Patterson; and 22 others.)

Auditing Committee's report was read and accepted.

Donations from T. Forster, R. Haines, Graham, DuPonceau, Mrs. Barton, and W. Darby.

"Cursory Obs. on the Art of making Iron and Steel from native ores of the U.S.," by Horatio Gates Spafford, was read in part.

Extra-Magellanic resolution of April 5th reconsidered and

amended, and again passed.

Subjects for both premiums ordered to be published by the Librarian.

1816. May 3. (Wistar; and 16 others.)

Donations from T. Bradford, Hopkinson, Humphreys, Vaughan, City Commissioners, London Society of Arts, &c.

"Analysis of the blue iron earth of N. Jersey," by Dr. Cooper, was read and referred to Collins, Hare and Patterson.

The reading of Mr. Spafford's paper was finished, and it was referred to Cooper, Cloud and Hembel.

Transactions: Patterson and Duponceau a Committee "to report what materials for the formation of a volume are in the possession of the Society, and what probability there is that a volume can appear during the present year."

1816. May 17. (Wistar; and 11 others.)

Spafford's paper: Committee reported that it required further confirmation and illustration. Adopted.

Donations from Cooper, Ferrer, Pitkin, Coxe, J. D. Coxe,

Graydon, Danby, Drake, Mansfield, and the Academies at Stockholm and Turin.

"On vanishing fractions," by Mr. Mansfield; referred to Hassler, Patterson and Dr. Patterson.

Observatory: R. Patterson, R. M. Patterson and Mr. Hassler were appointed a Committee "to examine whether the centre-house * formerly occupied by the machinery for supplying the city with water, be proper for an astronomical observatory, as preparatory to an application to be made by the Society for procuring it for that purpose."

Linnaean Society: Permission was granted them "to hold their meetings in the room adjoining that in which the Society sits, now occupied by the College of Physicians,"

pending the consideration of their request.

Botanical Garden: Rawle, Gibson and Duponceau appointed a Committee "to enquire and report upon the propriety of petitioning the Corporation of this City to appropriate the Potter's Field † for a botanical garden, under the direction of the Trustees of University."

1816. June 21. (R. Patterson; and 16 others.) Dr. Cooper's paper was reported for publication.

Observatory: Committee reported that the position of the centre-house "was extremely well calculated for the desired purpose, and moreover the only one in the city that was so; and that all the alterations . . . required . . . might be made at a moderate expense."

Vaughan, Patterson, Sergeant, Collins and Duponceau were then appointed a Committee "to apply to the Corporation for the use of the building," or a part of it.

Donations from W. Darby, J. J. Middleton, Dr. L. Valentine, DuPonceau, Vaughan, Hopkinson, Dr. S. Miller, D. B. Warden, Carlo Botta and David Parrish, "who also deposited a valuable collection of Ancient Medals and coins for safe keeping, subject to his order and to instruction given to the Librarian."

[·] Broad and Market streets.

[†] The Potter's Field was the plot of ground at Sixth and Walnut streets, now known as the Washington Square,

Proposed improvements in calculating surveys, by Mr. Austin, of Northumberland, was read and referred to Colhoun, Patterson and Hassler.

Linnaean Society's request:-

"Resolved. That it is inconsistent with the interest and views of the A. P. S., in the present state of their collection of Books and Minerals, &c, to grant any new privilege to any other Societies of making use of the rooms in the tenure of this Society."

1816. July 19. (Duponceau; Corréa, Nicholls, Seybert, Vaughan, Morgan, Mease, Gibson, Curry [sic], N. Biddle, 10.)

Observatory: Committee on Centre-square [sic] building was to meet a joint Committee of City Councils. Committee continued, and "authorized to take the measures necessary to ensure the success of the application."

Donations from Messrs. Short, Webster, Roberts, Spafford, Bennet, Sully, and the Royal and Antiquarian Societies, London.

Mr. Spafford was permitted to have his paper on Iron returned to him.

Lewis Kunits' letter was read, "asking a premium for his method of multiplying leeches, stating that his father was the first to employ the American leech, and that he had spent much time in maturing his method of propagating them in his house in Philadelphia." Referred to Board of Officers.

1816. Aug. 16. (Patterson; Duponceau, Izard, Collins, Colhoun, Vaughan, Patterson, Dr. Patterson, 8.)

Donations from Jos. Read, London Agricultural Society, and Rotterdam Philosophical Society.

1816. Sept. 20. (Duponceau; Patterson, Vaughan, Collins, Biddle, Barnwell, Nicholls, Haines, Currie, Hewson, Colhoun, Patterson, 12.)

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Donations from Messrs. Dunn, Jos. Engles, Vaughan, Duponceau, London Geological Society and New York Historical Society.

Henry's Chemistry, 7th English edition, imported by the Librarian, was bought by the Society.

A copy of the Transactions was ordered to be sent to the Mass. Antiquarian Society.

1816. Oct. 4. (Wistar; Patterson, DuPonceau, General Pinckney, Vaughan, Short, Corréa, Collins, Colhoun, Cloud, Barnwell, Nicholls, Gummeré, Mease, Hembel, Hewson, Pollock, Patterson, 18.)

Committee on Transactions reported progress.

Donations from Vaughan, Camper, Ronaldson and London Royal Society.

"Description of Ancient Fortification near Lexington, Ky.," by W. C. W. Short, was referred to Patterson, Corréa and DuPonceau.

"Height of the Mountains in Virginia." Dr. Hewson was directed to obtain information of the late Gen. Williams' observations.

1816. Oct. 18. (Patterson; and 21 others.)

Short's paper was reported for publication.

Donations from Delaplaine, Good, Hosack, Vaughan, Robertson.

"A plan for calculating surd decimal fractions," was referred to Patterson and Patterson.

Election of four new members: Rev. Abiel Holmes, D.D., Cambridge, Mass.; Isaac Thomas, Worcester, Mass., Pres't Antiq. S.; Carlo Botta; Jared Mansfield, Prof. N. Phil., U. S. M. A., West Point.

1816. Nov. 1. (Wistar; and 9 others.)

Donation from Mr. Pennington.

"On an improved Piston," by P. A. Browne, was referred to Colhoun, Patterson and Allison.

"On the Natural History of the Rattlesnake and Horned Snake," by Dr. Collin, was referred to Hewson, Wistar and James.

1816. Nov. 15. (DuPonceau; and 15 others.)

Mansfield's paper reported for publication.

Committee on "Surd Dec. Fractions" reported adversely.
Donations from Ferber, R. Walsh, Jr., Astley and
Vaughan.

"Complete Solution of Rittenhouse's Problem (Trans., Vol. III)," in a letter from Eugenius Nulty, was referred to Patterson, Patterson and J. Biddle.

Set of Trans. to be sent to the Lit. and P. S., New York. M. Le Sueur exhibited drawings of fishes found in the lakes and rivers of the United States. Thanks voted.

1816. Dec. 6. (Tilghman; and 14 others.)

Board of Officers reported the following resolutions, which were referred to the next meeting:

"That it be recommended to publish the Laws for instituting the Historical Com. and other Laws made since the publication of the Laws in 1814.

"That it be recommended to raise the annual contribution of the Resident Members from two to five dollars per annum."

Dr. Barton's proposal (May 7, 1813) relative to the size of the volume, was read by Mr. Vaughan for consideration at the next meeting.

Nulty's paper reported for publication.

"A Grammar of the language of the Lenni Lenapi (Delaware) Indians, translated from the German MS. of David Zeisberger, and presented to the Society by P. S. DuPonceau," was received with a vote of thanks, and referred to Wistar, Cooper and Collins.

Bust of Turgot, presented by Dupont de Nemours. Thanks voted.

Donations from Josh. Gilpin, Melish, R. Rush, Mrs. Barton, J. Utzschneider, DuPonceau and Nicholls.

1816. Dec. 20. (Patterson; and 15 others.)

Donations from Vaughan, Camper, Michaux, Sully, Warden.

Transactions: Dr. Barton's proposal to repeal Art. V, Sec. 5, of the By-Laws, was considered, and it was resolved to repeal a part of it, so as to make the size 4°.

Resolved, That the By-Laws be printed as recommended by the B. of O., "together with the most important By-Laws and Proceedings of the Hist. Com., which that Com. shall deem necessary. To match those printed in 1814.

Resolved, That the annual contribution shall be \$5.00.

No communications for the Magellanic Premium. Auditing Committee, Haines and Colhoun.

1817. Jan'y 3. (R. Patterson, DuPonceau, Hembel, Collin, Vaughn [sic], Hall, Stoughton, Currie, Chapman, Haines.)

ELECTION OF OFFICERS.

President-Caspar Wistar.

Vice-Presidents-Patterson, Tilghman, DuPonceau.

Secretaries—James, R. M. Patterson, Dorsey, W. P. C. Barton.

Councillors-Cooper, Gibson, Chapman, Colhoun.

Councillor for one year-W. Hembel, Jr.

Curators—Collins, Cloud, Hewson.

Treasurer-Vaughn [sic].

1817. Jan'y 17. (Duponceau; and 19 others.)

Donations from Henning and Meredith.

Vaughan [sic] and Patterson appointed a Committee to receive proposals for leasing the vacant rooms of the Society.

Funeral of Mr. Dallas: Procession from the Hall fixed at 3 p. m., Jan. 18.

Election of six new members: Dr. Wm. Meade; M. Leseur, of Paris; M. Delametrie, of Paris; Mr. Deluse; Dr. John C. Otto, and Richard Rush, Esq.

1817. Feb'y 7. (Wistar; Otto, Lesuer, Hall and 20 others.)

P. A. Browne's paper (Nov. 1, 1816) was reported for publication, and re-committed for further information.

Donations from Bigelow, Gorham, T. C. James, and Dr.

Meade (with illustrative remarks on the specimens).

Leasing the unoccupied rooms: Proposals from Mr. Sully, the Athenæum, and Dr. Cooper. Mr. Sully's proposition was acceded to. Lease to be prepared by the Committee, plus Duponceau.

1817. Feb'y 21. (Wistar; James, Colhoun, Seybert, Hall, Nichols [sic], Vaughan, Haines, 8.)

Donations from W. C. Poulteney, T. Desilver, and $M^{r.}$ Ramirez.

"The German Mint Weights were deposited in the Society by Mr. Vaughan."

Ramirez's Eulogium on Dr. Valli was given to Mr. Hall to translate and publish in the Port Folio.

"On the Gout," by Dr. Cooper, was referred to James and Seybert.

1817. March 7. (Patterson; Wistar, Duponceau, Beasley, Colhoun, Hall, Mease, Patterson, Nichols, Barnwell, Chapman, Parrish.)

Donations from Duponceau, Miss Patterson, and P. Cleveland.

A communication on the subject of Mr. Duponceau's donation was referred to Duponceau, Corréa and Cooper.

Communication from Stephen H. Long was referred to Beasley, Colhoun and Duponceau.

1817. March 21. (Wistar; Beesley [sic], Rawle, and 11 others.)

Ramirez's Eulogium on Valli, translated by Mr. Hall, was read and ordered for publication.

1817. April 4. DuPonceau, Otto, Dorsey, and 16 others.)

Donations from T. Dobson, De Tracy, and Ab. Small.

"On the nourishment of the fœtus," by Dr. Chapman, was referred to Wistar, Hewson and Dorsey.

1817. April 18. (Patterson; and 15 others.)

Report of Committee on P. A. Browne's paper accepted. Donations from Gen. Williams, R. Sullivan, Dr. John Bell, Dr. Meigs, T. Say, A. Holmes.

"On Bacon's System of Philosophy," by the Rev. Dr. Beasley, was referred to Wistar, Duponceau and Corréa.

"Bar. and Met. Obs. in Peru," by S. Curson, was referred to Wistar, Patterson and Dorsey.

Election of a new member: Edward Troughton, Esq., of London.

1817. May 2. Wistar; LeSueur [sic], N. Biddle, Morgan, and 15 others.)

Donations from J. E. Hall, D. B. Warden, Agricultural Society of Caen.

"On a large wen successfully extirpated," by Dr. Dorsey, was referred to Hewson, Barton and Patterson,

"Remarks on the Organic Vegetable remains discovered in Fossils, by Rev. Mr. Steinhauer," was partly read by Mr. Vaughan, and referred (to save time) to Collins, Maclure and Cooper. Pictet, of Geneva, proposed exchanges. Referred to Hall, Beesley [sic] and Patterson, Jun.

"Several miscellaneous transactions being finished, not deemed sufficiently important to be inserted in the minutes, the Society adjourned. [Signed] J. S. Dorsey, Sec."

1817. May 16. (Duponceau; Ingersoll, Hall, Otto, LeSueur, and 10 others.)

Steinhauer's paper reported for publication.

Donations from Ramirez, Hall, Vaughan, Prof. Ebeling, Roberts Vaux, Rev. R. Patterson.

"On the Geology of the U. S.," by W. McClure [sic], was read by Mr. Vaughan, it being an enlargement of the memoir read Jan. 20, 1809, "with the result of eight years additional observations." Referred to Wistar, Collins and Cooper.

Society to meet on Thursday, May 22, "to facilitate the publication of the Volume."

New Series: Proposition that the new Volume (7th) should be published as Vol. I, N. S., "to enable the printer the more readily to dispose of it; as he alleges that, as the preceding Volumes are several of them out of print, he could not readily dispose of a single volume which should appear to belong to the Old Series."

Isaiah Thomas, of Worcester, sent \$10, admission fee.

1817. May 22. Special Meeting. (Wistar; Patterson, Du-Ponceau, Rawle, Peale, Barnwell, Hewson, Chapman, Colhoun, Parrish, Hembel, Collins, Seybert, Haines, Ingersoll, Patterson, LeSueur, Hall, Barton, Biddle, 20.)

McClure's memoir reported for publication.

"Essay on English Phonology," by Dul'onceau, was referred to Rawle, Ingersoll and Colhoun.

"On the Climate of New Orleans," by Dr. Barnwell; referred to Parrish, Hewson and Patterson.

Vol. VII ordered to be published as Vol. I, N. S.

1817. June 20. (Patterson; Corréa, and 14 others.)

DuPonceau's paper reported for publication.

Dorsey's paper reported for publication.

Donations from Warden, Monteiro, Collins, Short, Astley, Dobson, and Matthew C. Rawlston.

"Directions for finding the Lat. and Long. without the aid of any instrument except a good common watch, and such other apparatus as any person may readily procure or even make for himself," by Mr. Patterson; read and referred to Beasley, Dr. Patterson and Gummeré.

"A new process of bleaching," was described by Prof. Cooper, and referred to Dorsey, Dr. Patterson and Cutbush.

"Experiments to ascertain the degree of expansion of iron and brass by heat," by Mr. Hassler, was referred to Dr. Patterson, Vaughan and Jno. Biddle.

Supplement to Barnwall's paper, referred to the same Committee.

Models of crystals, offered to the Society, in the hands of Dr. Coxe; purchase authorized.

1817. July 18. (Wistar; Patterson, Duponceau, Collin, Vaughan, Colhoun, Beasley, Morgan, Hare, Currie, Collins, Patterson, Parrish, Rawle, Chapman, Barton, Scott, 17.)

Hassler's paper reported for publication.

Cooper's paper reported for publication.

Patterson's paper reported for publication.

Librarian reported the purchase of [blank] models of crystals at [blank] cost.

Donations from Bishop White and Danl. Parker, of Washington, viz.: "The Original Journal in MS. of Wm. Dunbar and Geo. Hunter, up the Washita, to the Hot Springs, and up the Red River, in 1804, by order of the Government; and the First Part of Pike's Journal to the sources of the Mississippi in 1805."

Astronomical Observations at Washington to ascertain its latitude and longitude, by W. Lambert, read and referred

to Patterson, Patterson and Vaughan, "with power to take order."

"On the connection of Science with the rise and fall of Empires," by Dr. Colhoun; read in part, and referred to Rawle, Hare and Beasley, for "a detailed report."

Election of 5 new members: J. P. Frank, of Vienna; Jos. Baron von Sonnenfels, Vienna; Jos. Hammer, Vienna; Wm. Gaston, N. Car.; C. F. Mercer, Va.

1817. Aug. 15. (Patterson; Correa, Hare, Collin, Patterson, Barton, LeSueur, Currie, Dorsey, Rawle, Otto, 11.)

Donations from Mr. Darby, L. Valentine, of Nancy, Adelung of St. Pet.; C. A. Busby, C. J. Ingersol.

Deposited by Mr. Darby: Rozier's Cours d'Agriculture, Vols. I, to VII.

1817. Sept. 19. (Wistar; and 9 other.)

Donations from Parker of Washington, Nulty and Jos. Engles.

Deposited by J. Biddle, 15 Volumes 4° and 8° [the list being given].

"Description and use of a simple appendage to the Reflecting Sector, &c.," by Mr. Patterson, was read and referred to Dorsey, Gummeré and Dr. Patterson, with power to take order.

"A new theory of the world," by Jos. White, of the State of New York, was referred to Patterson, Collins and Morgan.

"Met. Obs. at Muskingum," kept by Heckewelder, was referred to Patterson, Collins and Patterson.

1817. Oct. 3. (Wistar; Allison, Izard, LeSueur, and 8 others.)

White's paper was reported adversely.

Chapman's paper was reported for publication.

Donations from Astley, Dobson, and Vaughan.

1817. Oct. 17. (Patterson; Vanderkemp, Hare, Short, and 12 others.)

Colhoun's paper: Abstract reported and paper eulogized, but "the subject was treated with too much length and detail to allow its insertion in the Transactions."

Collin's paper on Delaware Climate was reported for publication.

Donations from Levitt Harris, Gotthelf Fisher, Morrison, of Canton; Wilcox, Warden, Dr. Barton, Delaplaine, Physick, Webster, Carey, and the Institute of France.

"Description and use of a very simple instrument for setting up Sun-dials, &c.," by Mr. Patterson, was referred to Gummeré, Dr. Patterson and Vaughan, with power.

New species of North American fishes, by LeSueur, was referred to Hewson, Wistar and Dr. Patterson.

Election of seven new members: Rev. J. S. Vater, D.D., R. Lib., Prussia; Eugenius Nulty, Un. Pa.; T. Say; Geo. Ord; T. Nuttall; L. Schweidnitz [sic], N. Car.; H. Steinhaur, Bethlehem, Pa.

1817. Nov. 7. (Wistar; Vanderkemp, Corréa, LeSueur, Say, Nulty, Pollok [sic], Ord, Moore, Nuttall, Izard, and 17 other more regularly attending members.)

LeSueur's paper on Acipenser and Petromyzon was reported for publication.

Patterson's paper (on Sun-dials) reported for publication.

Donations from M. C. Ralston, Chapinau, Collins, Bigelow, Jas. Webster, C. Mulvey. And for the cabinet from Dorsey, Sol. W. Conrad, and Corréa

"Research concerning the mean Diameter of the Earth," by R. Adrain, of New York, was referred to Patterson, Nulty and Patterson, with power.

"Monograph of the genus Cicindella," by T. Say, was re-

ferred to LeSueur, Nuttall and Collins.

"Geological Account of the Ohio Valley," by Dan. Drake, of Cincinnati, was referred to Nuttall, Collins and McClure.

"Improvements in the Ship-pump," formerly communicated, was now referred to Nulty, Dr. Patterson and Haines.

Committee on Preface to Vol. I, N. S.: Duponceau, Tilghman, Patterson.

1817. Nov. 21. (DuPonceau; Nulty, Nuttall, Ord, Dickerson, and 12 others.)

Patterson's paper (Ship-pumps) reported for publication.

Adrain's paper was reported for publication.

Say's monograph was reported for publication.

Donations from Wistar, Chamberlain, J. Stackhouse, Rawle, Harris, B. and F. Bible S.; Lond. R. S.; Geol. S.; Hort. S.

MS. Journals: "Mr. Jefferson sent for the Historical class, some of the MS. journals of Lewis & Clarke, with orders from Gen. Clarke, upon his representative for the remainder of what had been in his possession."

Donations for the Cabinet, from Harris, Rawle and Chambers.

"On Fossil Shells found near Chambersburg, Pa.," &c., in a letter from Geo. Chambers, was referred to Collins, Wistar and LeSueur.

1817. Dec. 5. (DuPonceau; Wistar, Patterson, James, Parrish, Otto, Hartshorne, Collin, Beasley [sic], Barton, Haines, Barnwell, Vaughan.)

Donations from Carey & Son, and Vaughan.

Appendix to Patterson's paper on the Ship-pump referred.

No applications for the Magellanic Premium.

1817. Dec. 19. (Patterson; Nulty and 10 others.)

Patterson's Appendix reported for publication.

Donations from Patterson, Engles, Dr. Barton, Pennington, Dr. Patterson, Vaughan.

(Here follow two and a half blank pages.)

1818. Jan'y 2. (R. Patterson, Duponceau, Beasley, Collin, R. M. Patterson, Nulty, Haines, Collins, Pennington, Meredith, Rawle, C. J. Ingersoll, Vaughan, Barnwell.)

ELECTION OF OFFICERS.

President-Wistar.

Vice-Presidents—R. Patterson, Tilghman, DuPonceau.

Secretaries—T. C. James, R. M. Patterson, Dorsey, W. P.

C. Barton.

Councillors-Jefferson, McClure, Collin, Meredith.

Curators—Collins, Cloud, Hewson.

Treasurer-Vaughan.

1818. Jan'y 9. Special Meeting. (Wistar; R. Patterson, DuPonceau, Collin, Hall, Currie, Haines, Nulty, Beasley, R. M. Patterson, LeSueur, Vaughan.)

Vaughan reported an Ordinance of City Councils, granting the use of the "Centre-square building" as an Observatory:—

Section 1st.—Be it ordained and enacted by the citizens of Philadelphia, in Select and Common Councils assembled, That the City Commissioners shall, from and immediately after the passing of this Ordinance, demise and let to the American Philosophical Society, held at Philadelphia for promoting useful knowledge, for and during the term of seven years from the execution of said lease, for the yearly sum or rent of one dollar, to be paid at the end and expiration of each and every year, and [sic] hereinafter mentioned parts of the building at the Centre-square known by the name of Centre Engine-house, to be used by the said Society as an Astronomical Observatory, that is to say, the south-east and south-west rooms on the basement story; together with the use of the passage between the said rooms: so much of the circular part of the said building as is above the basement story, and the roof of the said story.

Section 2nd.—And be it further ordained and enacted, That in order that the before mentioned parts of the said building may be rendered suitable for the purposes aforesaid, it shall and may be lawful to and for the said Philosophical Society at the proper cost and charge of the same, to make and cause to be made, the hereinafter described alterations in the parts of the said building, to be so as aforesaid demised and let to the said Society; that is to say: They may remove and take away any part, or the whole of the arch forming the ceiling of the south-west room in the basement story of the said building, and make and construct in the said

room a stairway leading to the roof of said story; also to make and construct and build upon said roof a flat terrace roof, provided the same shall not be raised higher than the top of the lowest part of the parapet wall, as the same now is, and also to make, form and construct in the circular part of the said building a floor, which shall be upon a level, or as nearly so as may be, with the before mentioned terrace roof.

Provided always—That the said alterations or any of them shall not, in any manner whatever, change the present external appearance of the said Centre-house, and also that the demised parts of the same shall, during the term for which they shall be in the occupancy of the said Society, to be kept and maintained in repair at the proper cost and charge of said

Society.

Enacted into an Ordinance.

Wistar, R. Patterson, Tilghman, DuPonceau, R. M. Patterson and Vaughan were appointed a Committee with powers: 1. To execute the lease; 2. To apply to Government for a loan of instruments; 3. To apply to Legislature for an appropriation.

Thanks to City Councils were voted.

"An abstract of Bills of Mortality of Philadelphia, from 1809 to 1816," by J. Vaughan, were read and ordered for publication.

Committee on Publishing the Hist. Com. Volume reported its contents and that it was in press.

Obituary notices of deceased members were ordered to be added by the Historical Committee.

1818. Jan'y 16. (Tilghman; and 17 others.)

Donations from Jas. Webster, Dr. Barton, Hunter, Coxe, Warden.

Jas. Gräberg di Hemsö's letter from Tangiers, Nov. 10, 1817, describing the use of *Holcus bicolor*, common sorghum, by the Moors, as food and fodder, with his and Consul Simpson's experiments on it, on the Lancaster Co. plan, and recommending its cultivation in the United States was read.

Election of a new member: F. von Adelung.

Election of Librarian: J. Vaughan.

1818. Jan'y 23. Joint-meeting of the Society and Professors of the University, on occasion of the death of Dr. Caspar Wistar.

Procession from the Hall appointed for Monday, Jan. 26, to attend the funeral.

[Then follow data for an obituary.]

1818. Jan'y 28. Special Meeting. ("Present, Mr. Patterson, V.-P., in the chair, and an unusually great number of members.")

Chief Justice Tilghman unanimously appointed to deliver an Eulogium on Dr. Wistar.

1818. Feb'y 6. (Patterson; and 10 others.)

Donations for the Cabinet from J. C. Montgomery and Isaac Lea.

Donations for the Library from T. Dobson & Son, J. Hall, and Dr. Jas. P. Wilson.

1818. Feb'y 20. (Patterson; and 11 others.)

Muhlenberg's Herbarium costing "upwards of 500 dollars," was received as a donation to the Society, "under terms hereafter to be made known," from Collins, Chapman, Dorsey, Poilok, James, Short, Tilghman, Vaughan, C. Wistar. [The names of N. Biddle, H. Binney and C. Chauncey appear faintly preceding the others, and seem to have been erased.]

Buffon's Natural History, in 127 Vols., was received as a donation from Biddle, Binney, Chauncey, Collins, Corréa de Serra, J. R. Coxe, Meredith, R. M. Patterson, Pollok, Sergeant, Short, Rawle, Tilghman and Wistar.

Other donations for the Library from Meigs, Thackara, Webster, W. Franklin, Dashkoff, Delaplaine, Warden, Nancrede, Vaughan, Royal Society, Göttingen; S. Antiq., London, and Academy of Natural Sciences, Philadelphia.

Jefferson's acceptance of membership in the Council was read as follows:—

MONTICELLO, Feb. 15, '18.

DEAR SIR,

I have to acknowledge the receipt of your favor of Jan. 23, informing me that the Am. Philosophical Society have done me the honor of naming me one of the Counsellors of that institution. If, at this distance, I can be useful to the Society, I ask only the occasion of proving to them my readiness and zeal; and I beg the favor of you, Sir, to be the channel of conveying to them my renewed thanks for this and all other marks of their favor, for which I have so long and so often been indebted to them. To these permit me to add sincere condolences on the loss they have sustained in the death of our president, whose character was an honor to our Society, and his science precious to our country. I tender to yourself, Sir, the assurance of my great esteem and respect.

[Signed]

TH. JEFFERSON.

DOCT. R. M. PATTERSON.

The Athenœum and Mr. Sully: Letters were read "praying the Society to accede to an arrangement . . . accommodating the Athenœum with certain rooms now in the possession of Mr. Sully." Referred to Patterson, Colhoun and Barton.

Tilghman's Eulogium on Wistar fixed (by him) for March 2d. Committee of Arrangements appointed: Vaughan, Patterson, Collins.

1818. March 6. (DuPonceau; R. Patterson, Josh. Gilpin, T. Gilpin, Collins, Hewson, LeSueur, Colhoun, Currie, Barton, Hall, Otto, Moore, Haines, Vaughan, Patterson, Beasley, N. Biddle.)

Tilghman's Eulogium: Committee reported that no place had been found in time for the day set; but that Zion German Church in 4th street had been granted, for Wednesday, March 11th, at 12 o'clock.

Donation from Dr. Barton.

1818. March 13. Special Meeting. (Patterson; and 15 others.)

Thanks voted to Judge Tilghman for having "so faith-

fully expressed the feelings of the Society." A copy of the Eulogium requested for publication by the Committee of Arrangements. Also thanks to Zion Church voted.

1818. March 20. (Duponceau; Cloud, LeSueur, Nulty, Nuttall, and 10 others.)

Committee on the letters of Sully, and Ewing and Vaux (Athenœum Committee), desiring a lease of "rooms on the first floor of the house," reported that they had agreed that Mr. Sully should be permitted to lease the two north rooms to the Athenœum, for one year from June 1 next, on terms to be agreed upon between him and the Athenœum, the right to inspect the mode of heating the rooms being for safety reserved to the American Philosophical Society, and also the right to annul the agreement by giving six months' notice to the Athenœum; without which notice, however, Mr. Sully might prolong the lease.

Drake's memoir (Nov., 1817) reported for publication.

A new astronomical theory was read and referred to Patterson, Nulty and Patterson.

Agricultural Society: A proposal to take the S. E. cellar, "provided they could have, as formerly, the use of the room in which the College of Physicians held their meetings," was referred to Patterson, Barnwell and Patterson, with power to meet a Committee of College of Physicians.

Dr. Hewson was granted the loan of some bones for his lectures on Comparative Anatomy.

1818. April 3. (Duponceau; Nulty, Conover, Parrish, Lesueur, and 12 others.)

"A new astronomical theory" reported adversely.
Donations from Jos. Hammer and the Asiatic Society.
Portrait of Priestly, "long in the possession of our late president," presented by Mrs. Wistar. Thanks voted.

Portrait of Wistar: Committee appointed to procure one, Vaughan, Morgan, Collins.

Journals (2) of Thermometrical Observations, one made at sea by Judge Cooper and Mr. Priestly, and the other by Capt. J. Hamilton of the ship Superior, were referred to Barnwell, Patterson and Vaughan.

1818. April 17. (Patterson; Tilghman, Duponceau, Vaughan, James, Chapman, Cooper, Nulty, Meredith, Hall, Mease, Meade, Moore, Collins, J. G. Biddle, Hewson, Collins, Dorsey, Lesueur, Ord, N. Biddle, Morgan and Patterson.)

The Agriculture Society's agreement to give \$100 per annum for the use of the rooms of the College of Physicians, for meetings, and of the cellar to store their farm implements in, was agreed to and the same Committee directed to execute a lease.

Donations from Capt. Riley, Collins and Meade.

Election of eleven new members: John Quincy Adams; Noel de la Morinière; Josiah Meigs, Com. Land Office, U.S.; Jas. G. Thompson, Prof. Lang., Un. Pa.; Parker Cleveland, Prof. Chem., Bowdoin College, Me.; Dr. J. C. Warren, Cambridge, Mass.; Dr. Jas. Jackson, Cambridge, Mass.; Nich. Fuss, St. Petersburg; Gothelf Fischer, St. Petersburg; Dr. Dan. Drake, Cincinnati; and Dr. Jacob Bigelow, Cambridge, Mass.

1818. May 1. (Duponceau; and 19 others.)

Donations for the Library, from R. Desilver, Conrad, J. Bell, Va.; Vaughan, J. E. Worcester, W. E. Hulens, Duponceau, Pedersen, Heckewelder.

For the Cabinet, from Capt. Riley.

A model and description of a new plan for wooden bridges, by E. Gordon, was referred to Patterson, Nulty and Patterson.

"Ther. Obs. on a voyage from Smyrna," by Sam. Hazard, referred to Barnwell, Patterson and Vaughan.

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1818. May 15. Patterson; Duponceau, Vaughan, Allison, Beasley, Corréa, Cooper, Hall, LeSueur, Collins, Ord, Gummeré, Say, James, Barnwell, Collins, Barton, Patterson and Haines.)

Outstanding Committees continued.

Donations: Library—from Duponceau, James, Vaughan; Cabinet—Mrs. Wistar, McClure and Vaughan.

1818. June 19. (Patterson; Collins, Vaughan, Nulty, Hall, Chapman, Allison, Say, Lesueur, Ord, Patterson.)

Donations: Library—from Izard, Gardner, Small, J. Vaughan, Meade, Walsh, Coxe, Bowditch, Chapman, Wm. Vaughan.

"Geological speculations on the western U. S.," by Dr. Hugh Steel, was read and referred to Allison, Ord, and Patterson.

"On the Newtonian Theory of Universal Gravitation," by Dr. W. Currie, was read and referred to Patterson, Allison and Ord.

1818. July 17. (Duponceau; and 14 others.)

Donations to the Library from Dr. Jacob Bigelow, Alez. Ramirez of Havanna, Jno. Sergeant, Arthur Kinder of N. Y., T. B. Wait, Jno. Vaughan, Dr. Collin, Tanner Vallance Kearney, Jno. Heckewelder, Polly Heckewelder, Thos. Astley, John P. Norris, N. Am. Bible Soc., Jos. Sansom and Sam Hazard.

1818. Aug. 21. (Duponceau; Patterson, Vaughan, Collin, Hall, Lesueur, Colhoun, Say, Patterson.)

Donations from J. Q. Adams, C. Carré, M. Carey, Jas. Webster, S. Breck, Bowditch, Payne, Todd.

"Further remarks on the Long. and Lat. of Washington," by W. Lambert, was referred to Patterson, Nulty and Patterson. "Solution of a general case of the motion of the simple Pendulum," by E. Nulty, was referred to Dr. Patterson, Adrain and Gummeré.

Hutton's Dictionary and Hutton's Tracts purchased.

Committee appointed to associate Say and Nuttall with the U. S. Exploring Expedition to the Northwest: Patterson, DuPonceau, Jones, Cooper and Patterson.

1818. Sept. 18. (Patterson; DuPonceau, Corréa, Nulty, Scott, Mease, Vaughan, Patterson.)

Donations: Library—from E. Barton, Capn. A. Delano, Nuttall. Daschkoff, Chapman, Agardh.

Donations: Cabinet—from Vaughan, R. Vaux, Cæsar A.

Rodney, Ord.

- "On Looming," by Jas. Flint, referred to Mease, Hembel, Patterson.
 - "On tests of Arsenic," by Dr. Cooper; same Committee.
- "Obs. on the Yellow Fever," by Dr. Cooper; same Committee.
- "Continuation of Capt. Hamilton's Journal" (see April, 1818), was received and referred.
- 1818. Oct. 2. (DuPonceau; Patterson, Vaughan, Brown, Hare, Cloud, Hewson, Gummeré, Hembel, Say, Colhoun, Lesueur, Patterson.)

Cooper's papers reported for publication.

Donations: Library—from Daschkoff, Ramsay, Clymer, and Petty Vaughan.

1818. Oct. 16. (Brown; Vaughan, Lesueur, Hewson, Ord, Say, Parrish, Pollok, Pinckney, Mease, Dr. Patterson.)

Nulty's paper reported for publication.

Donations: Library—from I. Thomas, W. Franklin (Calcutta), Judge de Saussure, Hugh Roberts, M. Thomas, and Massachusetts Historical Society.

1818. Nov. 6. (DuPonceau; Brown, Nulty, Walsh, N. Biddle, Chapman, Ingersoll, Colhoun, Say, Vaughan, Dr. Patterson.)

Donations: Library—from N. Potter, and Jas. Webster.

1818. Nov. 20. (No quorum.)

1818. Dec. 4. (Tilghman; Say, Hall, Ord, Otto, and 10 others.)

Donations: Library—Dr. Mott, and Dr. Hosack, of New York.

"A steering apparatus for the Air Balloon," by M. Colius de Ham, was referred to Patterson, Patterson and Nulty.

1818. Dec. 18. (Duponceau; Say, Lesueur, Nulty, and 8 others.)

Donations: Library—from M. Carey.

No applications for the Magellanic Premium.

Auditing Committee: Patterson and DuPonceau.

1819. Jan'y 1. (Duponceau; and 19 others.)
ELECTION OF OFFICERS.

President-Robert Patterson.

Vice-Presidents—W. Tilghman, P. S. Duponceau, Z. Collins. Secretaries—T. C. James, R. M. Patterson, W. P. C. Barton, R. Walsh.

Councillors—Rawle, Binney, Sergeant, J. Quincy Adams, Jr. Curators—Jos. Cloud, T. T. Hewson, Reu. Haines. Treasurer—J. Vaughan.

1819. Jan'y 15. (Patterson; and 16 others.)

Donations: Library—from Breck, Adelung, Luke, Munsell, Vaughan, Delaplaine, Pickering, Ewington, and the Russian Academy.

Librarian elected: J. Vaughan.

Election of six new members: J. Murray, of Edinburgh; L. M. Langley; Roberts Vaux; L. H. Girardin; H. M. D. De Blainville; and Dr. John Eberle.

1819. Feb'y 5. (Tilghman; Patterson, Biddle, Sansom, Collins, Haines, Gilpin, Rawle, Duponceau, Vaux, Nulty, Vaughan, Walsh, Lesueur, Ord, Beasley, Patterson, Eberle, Barton, Hewson, 20.)

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Donations from R. M. William, Moses Thomas, and the American Academy, Boston, a letter from which was referred to Collins, Humphreys and Dr. Barton.

1819. Feb'y 19. (Duponceau; Patterson, Vaughan, Short, Haines, Vaux, Say, Patterson, Hewson, Brown, Eberle, Meade, Lesueur, Colhoun, Barton, Hall.)

Donation: Library-from M. Carey and R. Walsh.

Donations: Cabinet-from Jos. Sansom.

1819. March 5. (Collins; Patterson, Walsh, Vaux, Vaughan, Collin, Eberle, Say, Hall, Haines, Lesueur, Meade, Ord, Duponceau.)

Donations: Library—from Baldwin, Collins, R. Patterson, and A. del Rio.

Committee "to consider the state of the Library and catalogue of its books, and to make alterations"... if necessary: Vaughan, Walsh, Vaux.

1819. March 19. (Patterson; Otto, and 12 others.)

Committee on Library to report in May.

Donations: Library—from Ez. Sanford, T. Say, Pisa Academy, and Josh. and T. Gilpin ("specimen of their endless paper").

Memoir "On the form of the earth," with a letter from John Cleves Symmes, requesting its deposit in the Library.

Exploration: Letter from the Secretary of War, United States, requesting suggestions for a party sent out beyond the Mississippi. Committee: Walsh, Duponceau, Cooper, Dr. Patterson, Brown.

Historical Committee authorized to dispose of their own Transactions, "keeping, however, always in view the best interests of the Society at large."

Jos. and T. Gilpin exhibited printing on endless paper, "at the time of its manufacture, by a cylindrical water-press, and with a degree of rapidity never before equalled."

1819. April 2. (Duponceau; and 13 others.)

Exploration Committee reported sending suggestions to Washington. A copy was ordered to be preserved in the Library.

Portrait of Washington, loaned to Mr. Binns for an engraving for the Declaration of Independence. Committee: Vaughan and R. Patterson.

Dr. Beasley's paper on Lord Bacon's Philosophy reported withdrawn by the author.

Librarian to enjoin Committees to report in May.

1819. April 16. (Collins; Corréa, Ingersoll, N. Biddle, and 14 others.)

Donations from Duponceau, Michaux, Macknab, B. C. Wilcocks, Dr. Gorham, Rob. De Silver, London Royal Society and Batavian Literary Society.

Letters from the Manchester L. S. and Sec. Leg., Netherlands.

"On 2 new species of Cyperus &c.," by W. Baldwin, M.D., was referred to Corréa, Collins and Haines.

"On an improvement in Surveying," by Jas. Austin, was referred to Patterson and Patterson.

Letter of acknowledgment from the United States War Department.

Dr. Currie's paper; Committee discharged.

Mr. Lambert's paper; Committee discharged.

Gordon's paper: Committee discharged.

Journals of Priestley, Cooper and Hazard, ordered to be deposited with the Meteorological papers, as recommended by the Committee.

Curtius' Meteorological Observations; Committee dis-

charged.

Election of three new members: Mr. Tillesius, Count Languinais, Stephen Elliot, of South Carolina.

1819. May 7. (Patterson; Walsh, Izard, Collin, Eberle, Lesueur, Hall, Cooper, Brown, Collins, Corréa, Cutbush, Ord, Duponceau, Vaux, Vaughan, Dr. Barton, Hare, Hewson, Nulty, Colhoun, Dr. Patterson, Haines, Cloud.)

Committee on Library: Report returned with instructions to report plan and expense of cataloguing. Duponceau added.

Barnwell's paper on the climate of New Orleans (May 22, 1817), ordered to be deposited in the Archives of the Historical Committee, as recommended by Committee report.

Donations from Miller, Desmarest, Michaux, Warden; A. N. S., Phil.; Phil. Agr. S.; Chev. de Onis.

Perkins' instrument for determining the compressibility of water; referred to Patterson, Hare and Nulty, "to witness his experiments with it."

"On the Prussic acid," a Committee from Duvigneau & Parent of Paris; referred to Dr. Patterson, Cooper and Hewson.

"The Lithographic Stone belonging to the Cabinet of the Society was loaned to D^{r.} Brown and M^{r.} Otis for experiments in the art of Lithographic Engraving."

Chaptal's L'Industrie Françoise was lent to Dr. T. Cooper, "with a desire that he would report thereon."

1819. May 21. (Collins; and 19 others.)

Donation from Francis Da Costa.

Commentarii A. S. I., Petropol., 1728-1750, 14 Vols., and Novi Com., 1750-1771, 17 Vols., bought by Mr. Vaughan, of Mr. Garnet, of Brunswick, accepted at cost by the Society.

A meteorological communication referred to Dr. Patterson, Corréa and Haines.

1819. June 18. (Cooper; Eberlé, Vaux, Hembel, Corréa, Lesueur, and 7 others.)

Committee on Perkins' machine reported progress.

Magellanic Premium: Propositions reported from the Board of Officers "for bestowing or dispensing" it, were accepted and ordered to be printed.

Donations for the Library from De Silver, M. Thomas, P. H. Nicklin, Jac. Sperry, Jas. Webster.

For the Cabinet: An Artificial Horizon (Trans. Vol. I, N. S., p. 325), suggested by R. Patterson; and Hydrostatic Steel yard invented by Dr. Coates; by J. Vaughan.

Election of four new members: Jacob Perkins, of Philadelphia; A. S. Desmarest, H. M. Ducrotay de Blainville,* and P. A. Latreille, all of Paris.

1819. July 16. (Patterson; Du Ponceau, Patterson, Ord, Lesueur, Brown, Barton, Vaughan.)

Circular relative to the Magellanic Premium reported in press. [A copy of it is pasted into the minute book here.]

Duties levied by the New York Custom House officers on books for the Society, were reported by Mr. Duponceau, together with his remonstrance sent to Washington.

Jacob Perkins' letter, describing his experiments at sea, was referred to the Committee.

Blainville seems to have been elected twice, viz.: Jan. 15, 1819, and June 18, 1819.

1819. Aug. 20. (Collins; Patterson, Meredith, T. Gilpin, Lesueur, Colhoun, Barton, Eberlé, Cooper, Du Ponceau, Ord, Vaughan.)

Donations from Adelung, Major Lorich, Capt. James, Biddle, Chazotte, Vaughan, and Turin A. S.

"On the Moon's Parallax & Lat. & Long.," by Mr. Lambert, was referred to Patterson and Dr. Patterson.

"On a Hydraulic Reflecting Telescope," by Mr. Busby, was referred to T. Gilpin, Patterson and Vaughan.

"On the N. Amer. Insects," by T. Say; referred to Collins, Lesueur and Collin.

Memorial to Congress for exemption from Duties on Books, &c., for the Society, drawn up by Duponceau, was read and referred to himself, Patterson and Vaughan, with power to act.

Coöperation of the Society with the City Corporation in deciding upon claims for premiums established by a recent Will,* was proposed by Mr. Meredith and referred to him, Dr. Patterson and Mr. Vaughan, with power to act.

1819. Sept. 17. (Patterson; Du Ponceau, Corréa, Cooper, Eberlé, Hall, Mease, Vaughan.)

Donation of Medicines from S. Amer. made by F. Schmidt; (A.), Cepo de Chumbo, a parasitical plant, strongly recommended in Brazil for pulmonary complaints; (B.), Resina de Catalas, an excellent purgative. Referred for trial to Chapman and Physick.

Donations, from Asiatic Society; Bath and W. E. S.; M. Carey & Son; Williams; W. Jones, of Calcutta; also Prof. Schroder's (Upsal) dissertation to prove that America was peopled from Scandinavia.

"On the dry rot of timber:" Mr. Williams repeated his letter of inquiry of Sept. 1818.

"An exact result of the Moon's Parallax;" and "Errors

^{*}The John Scott legacy, which is now supervised by the Franklin Institute.

in the Naut. Almanac," in letters from Lambert; referred to Patterson, Dr. Patterson and Nulty.

Specimens of improved Canvas, with a letter from Josiah Chapman of Bristol, Pa., claiming a premium, was referred to the Board of Officers.

1819. Oct. 1. (DuPonceau; and 12 others.)

Donations of books from twelve sources.

Hassler's request to be permitted to send a communication under certain conditions, was granted, subject to reconsideration on its reading; the President to correspond with Mr. Hassler.

Loan of a copy of the Vocabula, &c., to Prof. Vater, per Mr. Duponceau, authorized.

1819. Oct. 15. (DuPonceau; James, Eberle, Chapman, Colhoun, Cooper, Dr. Patterson, Hewson, Barton, Hembell, Meredith, Walsh, Lesueur, Vaux, Corréa, Pollok, T. Gilpin, Vaughan.)

Donations from Von Hammer, Michaux, &c.

Election of six new members: Alex. Brongniart [sic]; Redmond Conyngham; Rev. F. C. Schaeffer (New York); Dr. W. P. Dewees; Dr. W. E. Horner; and Dr. J. A. Albers, of Bremen.

1819. Nov. 5. (DuPonceau; Dewees, Horner, and 11 others.)

Donations from Upsal, Paris, Hague, &c.

Perkins' Experiments with the Pyometer and Bathometer, "during his late passage to London;" referred to Dr. Patterson, Hare, Nulty.

1819. Nov. 19. (Collins; DuPonceau, Collin, Vaughan, Nulty, Eberle, N. Biddle, Hall, Dr. Patterson.)

Donations from the Hort. S., London, and Jno. Binns.

"On the first government established by William Penn, in Pa.," in a letter from T. Matlack, was read.

"A worm very destructive to the apple tree," was verbally

described by Dr. Collin.*

Legendre's Int. Calc., 7 Vols., 4°, ordered bought for \$21.50.

1819. Dec. 3. (Patterson; Dewees, Horner, J. Gilpin, C. J. Ingersoll, and 16 others.)

Say's paper reported to be a sequel to his published paper, and worthy of publication in the next volume. Report accepted.

Donations: Library—from Tracy, Vaughan and Schaeffer. A new Instrument for describing Ellipses (with drawings) offered for the Magellanic Premium was referred to the Board of Officers.

Custom House obstructions to literature and science were described in Mr. Schaeffer's letter from New York to Mr. DuPonceau. Referred to the Committee of August 20th, 1819.

The attention paid in Europe to American Literature, was the subject of another letter from Mr. Schaeffer to Mr. DuPonceau.

On the Calorimotor (a peculiar Voltaic apparatus), in a letter from Prof. Jac. Green, of Princeton, to Dr. Patterson, was read.

No applications for the Magellanic Premium reported from the Board of Officers.

1819. Dec. 17. (DuPonceau; Cooper, Hembel, Haines, Vaux, Mease, Dewees, Lesueur, Collins, Meade, Vaughan. Dr. Patterson, Morgan.)

Donations from De Montargis, Poinsett, and J. D. Coxe; and a vase of Swedish Porphyry, from Major Lorick.

^{*} At the next meeting, Dec. 3, he exhibited the worm.

1820. Jan'y 7. (14 present.)

ELECTION OF OFFICERS.

President—Robert Patterson.
Vice-Presidents—Tilghman, DuPonceau, Collins.
Secretaries—James, Dr. Patterson, Walsh, Ord.
Councillors—Jas. Gibson, Chapman, Hare, Hembell.
Curators—Cloud, Hewson, Haines.
Treasurer—Vaughan.

1820. Jan'y 21. (Tilghman; and 17 others.)

Donations for the Library and Cabinet.

Librarian elected: J. Vaughan.

Auditing Committee of 1819 discharged.

Election of a new member: Baron Hormeyer, of Vienna.

1820. Feb'y 4. (DuPonceau; and 16 others.)

Williams' letter on Dry Rot: Committee continued.

Donations: Library-from Mr. Vaughan.

Description of a new Twine-twisting machine, offered for Extra-Magellenic Premium, was referred to the Board of Officers.

The spontaneous combustion of linseed oil after being poured on wood ashes, was described by Mr. Patterson, as experimentally proved at the U.S. Mint.

1820. Feb'y 18. (Collins; and 19 others.)

Instrument for describing Ellipses, reported on by the Board of Officers. Report accepted.

Lambert's paper: report of Committee accepted.
Perkins' Experiments: Committee continued.
Brazilian Medicines: Committee continued.
On Prussic Acid: Committee discharged.
Donation to the Library from Moses Thomas.
Treasurer to present his accounts before July.

1820. March 8. (Patterson; Vaughan, Lesueur, Correa, DuPonceau, Hasler, Collin, Mease, Horner, Patterson, Dewees, Ord.)

Donations for Library and Cabinet.

"Papers upon various subjects relating to the Survey of the Coasts of the U. S.," by F. R. Hassler; referred to Dr. Patterson, Vaughan and Nulty.

1820. March 17. (DuPonceau; and 17 others.)

Chapman's method of making Canvas* (Extra-Mag. Prem.), reported; to be acted on at the next meeting; notice to be given.

Machine for twisting twine: report of Board of Officers accepted.

Hasler's papers: reported for publication.

MS. Correspondence of General Greene presented by Rob. Desilver.—Other donations for the Library.

Lot on Fifth Street: "A renunciation on the part of the Society of all claim to the State House Square, except so much as was granted to the Society by act of Assembly, being the lot of ground whereon the Building of the Society stands," was read, and ordered "to be legally executed and delivered to the proper authorities."

Transactions: Committee to consider the propriety of printing a new volume; Patterson, Vaughan, Collins.

Regular Publication ordered of a list of Donations, Communications, and New Members: Committee, Ord and Eberlé, to assist the Librarian; expense, if any, to be defrayed by the Society.

Oration in January, 1821: DuPonceau and Walsh nominated.

1820. April 7. (Patterson; and 17 others.)

Committee on Transactions reported good progress.

^{*} Cf. Sep. 17, 1819.

[†] Cf. Feb. 4, 1819.

Extra Building Lot: The following paper was read by Mr. Vaughan:

" To the Select and Common Councils of the City of Philadelphia.

"GENTLEMEN,

"I am directed by the City Commissioners to lay before you an agreement, drawn by the City Solicitor. dated the 21st inst. and executed by the Philosophical Society, relative to the occupying of a strip of ground adjoining their building in the State-House yard.

"The use of the lot has been had by the Society many years, before the management of the State-House yard came under the direction of the City Board; it is believed that the possession thereof has been acquiesced in by all who have had the care of the ground, from the absolute necessity of the case, the premises not affording any other means of conveniency.

"The City Commissioners respectfully request of Council directions for

their future government.

"By order

"MATH. RANDALL

" City Clerk

"23d March, 1820."

"In Select Council, March 23d, 1820,

"Resolved by the Select and Common Councils that the City Commissioners cause the Deed Poll executed by the Philosophical Society in relation to a small piece of ground south of their Hall to be placed on record at the expense of said Society, and that the use of said piece of ground, as now enclosed, be permitted during the pleasure of Councils and no longer."

Donations from various sources.

Extra-Magellanic Premium (the highest) was awarded (by ballot) to Joshua Chapman, of Bristol, Pa., for an improvement in the manufacture of canvas.

Orator chosen: Mr. Du Ponceau.

1820. April 21. (Collins; and 19 others.)

Williams' Committee continued.

Donations from Royal Society, London; the King of France; Rafinesque; Nash, Collins, Short, and Hembel, Jr.

On a new flue for Chimneys, with a model, by Elijah Griffiths; referred to Hare, Patterson and Vaux.

Election of three new members: Wm. Marsden, of England; Dr. Franklin Bache; Dr. Wm. Gibson, both of Philadelphia.

1820. May 5. (Du Ponceau; Collins, Josh Humphreys, Meredith, Vaughan, Nuttall, Correa, Lesueur, Vaux, Haines, C. J. Ingersoll, Nulty, Mease, Patterson, Collin, Dewees, Hewson, Horner, Eberle, Bache, Hare, Chapman, Patterson and Ord, 24.)

Williams' paper on Dry Rot; report read and ordered to be transcribed and forwarded to Mr. Williams.

Donation: Library—from Dr. Patterson and Haines.

Donation: Cabinet-from Dr. Le Baron.

Griffiths' improved flue: report read and recommitted.

Meteorological Observations at the United States Cantonment on the Missouri, by Dr. Mower; referred to R. Patterson, Dewees and Mease.

On geographical names; read by Dr. Collin.

On a new Varnish, communicated to Dr. J. Redman Coxe, was read by Mr. Vaughan.

Dr. Coxe to report his conference with the writer.

1820. May 19. (Du Ponceau; and 16 others.)

Busby's proposal to use the surface of a rotating mass of mercury as a parabolic reflector for a telescope, was reported on; report to be filed.

Donations from various sources. Cagnoli's Trigonometry ordered to be bought.

1820. June 16. (Du Ponceau; and 11 others.)

Donations for library and cabinet.

On the Mocking Bird, by N. M. Hentz; referred to Mease, Gibson and Lesueur.

1820. *July* 21. (Collins; and 8 others.)

Donations from various persons.

On the anatomy of the Alligator, by N. M. Hentz, was referred to Dewees, Horner and Mease.

1820. Aug. 18. (Du Ponceau; and 10 others.)

Hentz's paper; Committee continued.

Donations for Library and Cabinet from various sources.

1820. Sept. 15. (Patterson; and 11 others.)

Brazilian medicines; Committee reported the Resina de Catala analogous to Jallup [sic], but had not a sufficient quantity to test its value.

Committee to publish Donations ordered to report.

Donation: Library—from various sources.

Treasurer directed to present his accounts on the Second meeting in October.

1820. Oct. 6. (Collins; Correa, Vaughan, Horner, Eberlé, Mease, Barnwell, Sergeant, Bache, Hare, Collin, Colhoun, Lesueur, Hall, Chapman, Dewees, Dr. Patterson, 17.)

Donation: Library—from various persons.

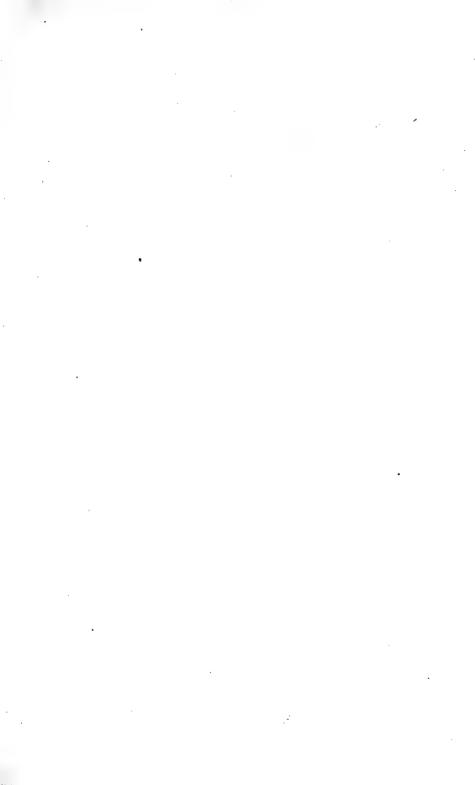
An account of a new Varnish, was offered for the Magellanic or for the Extra Magellanic Premium, and referred to the Board of Officers.

1820. Oct. 20. (Du Ponceau; and 20 others.)

Donation for Library and Cabinet from various sources.

Dr. Hare described his Deflagrator, and "the importance of the sudden & simultaneous immersion of all the plates of the Voltaic battery, to procure its maximum effect."

Election of eight new members: Rev. S. F. Jarvis, of New York; Mr. Isaiah Lukens, of Philadelphia; J. J. Berzelius, Stockholm; J. A. Borgnis, of Paris; M. Lesseps, Consul of France at Philadelphia; M. Montgéry, officer French Navy; Wm. Strickland, Architect, of Philadelphia, and J. Pickering, of Salem, Massachusetts.





1820.

1820. Nov. 3. (Patterson; and 17 others.)

Hentz Committee continued.

Committee on the arrangement of the Library continued.

Donations for the Library from several persons.

"On Condorcet's application of the theory of probabilities to decisions depending on a majority of votes." Verbal communication by Dr. Collin.

"On cheaply altering Abbot's cooking stoves into a furnace for heating rooms by Lehigh Coal." Verbal communi-

cation by Mr. Haines.

Lease to Mr. Sully. Committee appointed in 1817 ordered to report on the first meeting in December.

1820. Nov. 17. (Du Ponceau; Lukens, Strickland and 16 others.)

Donations for Library and Cabinet from various sources.

"Obs. on the Trap rocks of the Connewago Hills, & Stony Ridge, Dauphin & Cumberland Cos., Pa.," by Judge Gibson, was referred to Collins, Patterson and Lukens.

Treasurer had leave to defer the presentation of his accounts until next meeting.

1820. Dec. 1. (Tilghman; and 20 others.)

Library Committee reported:

"That upon examination they find that the Books are generally classed according to the subjects upon which they treat, but, with a view to relieve the cases in the hall where the Society holds its meetings, they respectfully suggest the propriety of authorizing the librarian to have suitable compartments constructed in the adjoining room, to which shall be transferred such books as are seldom consulted."

(Signed)

P. S. DUPONCEAU, ROBERT WALSH, JNO. VAUGHAN, ROBERTS VAUX."

Committee required to report further in May, 1821.

Report on Dr. Mower's Paper on the Climate at Council Bluffs accepted.

Gibson's paper (Trap) reported for publication.

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Treasurer begged leave to defer his account to the next meeting.

Committee on the Sully lease continued.

Donations from Collins & Carey: A very valuable collection of books, presented by Adelung, of St. Petersburg, had arrived at New York.

Correa de Serra. "The Sec. was instructed to direct a letter to his Excellency Mr. Correa de Serra, expressive of the high regard of the Society, & of their regret at his departure from this country." To be signed by the President and Vice-Presidents.

Librarian authorized to purchase a collection made at Paris for the Society by Mr. Ord, for fifty-three francs; and thanks voted to Mr. Ord for the pains he had taken to get such books so cheaply.

1820. Dec. 15. (Collins; and 15 others.)

Report on a new Varnish (Extra Magellanic Premium) laid on the table. "(See Report on File.)"

Treasurer submitted his accounts for several years; referred to DuPonceau, Collins and Strickland.

Bronze Bust of Count Nich. Romantzoff. Chancellor of the Roman Empire, presented by himself, with a letter.

Neither Magellanic nor Extra Magellanic Premium should be awarded to any paper this year.

Annual Oration postponed, at Mr. DuPonceau's request, to the last Friday in May, 1821.

1821. Jan'y 5. (Patterson; Duponceau, Dewees, Patterson, C. Smith, Bache, Barnwell, N. Biddle, Collin, Short, Currie, Horner, Hare, Strickland, Vaughan.)

ELECTION OF OFFICERS.

President—Rob. Patterson.

Vice-Presidents—Tilghman, DuPonceau, Collins.

Secretaries—Hewson, R. M. Patterson, Walsh, Ord.

Councillors—Jefferson, McClure, Collin, Meredith. Curators—Cloud, Say, Horner. Treasurer—J. Vaughan.

1821. Jan'y 19. (DuPonceau, Vaughan, Nuttall, Say, Lesseps, Lesueur, Colhoun, Barnwell, Collins, Horner, Hall, Hewson, Mease.)

Auditor's report ordered to lie on the table.

Donations: Library—from Adelung, Heckewelder, and Vaughan.

Leasing Committee, appointed to receive applications on the expiration of Mr. Sully's lease: Patterson, Hall, Morgan.

Librarian elected: J. Vaughan.

Election of new members: Langdon Cheves, Prest. Bank U. S.; Levett Harris; J. B. Gibson, all of Philadelphia.

1821. Jan'y 26. Special Meeting. (Patterson; Tilghman, Horner, Barnwell, Bache, Colhoun, Strickland, Say, Hall, Lesueur, Troot, Morgan, Lukins, Meredith, Dewees, Vaughan, N. Biddle.)

Lease Committee reported that the Athenseum proposed to rent the two south rooms, and north-east room, first floor, for five years, with the refusal for another five years; a small room to be partitioned off in the entry, at their own expense, for the Librarian; cellar room for fuel; at \$450 per annum; out of which is to be allowed "whatever sum the [Athenseum] may be obliged to pay Mr. Sully."

"Resolved, That an offer be made to the Athenæum at \$500, per annum, from the time of the expiration of M^r . Sully's lease, the Athenæum to make what arrangement they can with M^r . Sully for the unexpired time of his lease"

Committee to inform the Athenæum Committee immediately of this offer; "which they accordingly did."

1821. Feb'y 2. (Patterson; Vaughan, Troost, Say, Les-

ueur, Lukins, Barnwell, Morgan, Mease, Bache, Gibson, Harris, Horner, Beasley, Hall, Patterson.)

1991

Auditing Committee reported:

	from the Society to the Treasurer		39
6.6	" Treasurer to the Society		
**	on account of the Magellanic Funds	1982	33
66	" Rittenhouse Fund	44	93

Donations from various persons.

"Upon a method of improving the Navigation of Rivers in Mountainous countries," by Mr. Hassler; referred to Patterson, Strickland and Mease.

"On the Diurnal Fluctuations of the Barometer at Calcutta," by Mr. J. P. Espy; and

"On a Passage in LaPlace's System of the World respecting the theory of the Moon," by Mr. J. P. Espy; referred to Vaux, Patterson and Hare.

Atheneum proposal—to give \$500 for the four rooms on the first floor; or \$400 for the four rooms before mentioned, with cellar room for wood, and a small lobby in the entry; "lease to commence whenever the Society can give possession of the premises."

Resolved, That the \$500 offer be accepted for the four rooms on the lower floor, for 5 years from the expiration of M* Sully's lease; Patterson, Morgan & Hall to execute the lease.

1821. March 2.* (Duponceau; Vaughan, Troost, Say, Patterson, Barnevell [sic], Horner, Cheves, Bache, Strickland, Le Suer [sic], Currie, Collin, Mease, Chapman, Dewees, Nuttal [sic], Hewson.)

Hassler's paper; report accepted.

Donations from various persons.

Various resolutions of Dr. Patterson proposing By-Laws in relation to the Funds, were laid on the table for action next evening; notice to be given.

No meeting appears to have been held on February 16.

1821. March 16. (Duponceau; Collin, Barnwell, Le Suer, Dr. Gibson, Vaughan, Dr. Patterson, Say, Nuttal.)

Donations from the King and Royal Academy of France. Patterson's resolutions postponed; notice to be given.

1821. April 6. (Patterson; Vaughan, Duponceau, Harris, Hall, Morgan, Collins, Le Suer, Say, Nuttal, Bache, Chapman, Eberle, Barnwell, Mease, Colhoun, Patterson, Hare, Hewson, 19.)

Donations from Heckewelder, Rusconi, of Pavia, and others.

Rusconi's request respecting the Syren lacertina, was referred to Say, LeSeur, and Mease, "to carry into effect."

By-Laws, read by paragraphs and passed:

VII. 4. "If any member shall pay to the Society the sum of \$50, he shall thereafter be exempted from his annual contributions."

VIII. "Regulations respecting the Treasury:

"1. For the future no monies whatever shall be paid from the Treasury, unless under the authority of a specific appropriation previously made by resolution of the Society, and such resolution certified by the presiding member at the time it was made, shall be considered a sufficient warrant to the Treasurer, under the VI of the twelve Fundamental Laws, for the payment of bills, for the objects and with the limits specified.

"2. The Treasurer shall be required to present a full statement of his

accounts, on the first stated meeting in December annually.

"3. The Treasurer shall be allowed a commission of 5 p. cent upon all monies received by him for the Society, except in the case of donations or bequests.

"4. A Standing Committee of three members shall be appointed at the 2d meeting in January annually, hereafter, to have charge of the Building, & no alterations or repairs shall be made but with their approbation and under their superintendence."

Building Committee: Strickland, Vaughan and Dr. Patterson, appointed for the current year.

Magellanic Fund. "The President & M^{r.} Collins are appointed a Com. to assist the Treasurer in the best mode of managing the M. F. now in his hands.

[&]quot;Resolved, That \$100 be appropriated for the payment of such expenses

as may be incurred by the Building Committee during the time for which they have been appointed.

"Resolved, That \$100 be put at the disposal of the Librarian for the purchase of such literary & scientific Journals as are now taken by the Society, or may be hereafter ordered by the Society.

"Resolved, That \$50 be put at the disposal of the Librarian for the bind-

ing of books.

- "Resolved, That \$100 be appropriated for all other current & necessary expenses of the Society for the ensuing year, & that this sum be put at the disposal of the Librarian for this purpose."
- 1821. April 20. (Duponceau; Vaughan, Strickland, Bache, LeSeur [sic], Harris, Conyngham, Colhoun, Barnwell, Patterson, Meredith, Mease, Dewees, Dr. Gibson, Judge Gibson, Collin, Patterson, Collins, Morgan, Chapman, Nuttal, Say, Lukins, and Hewson, 24.)

Donations from C. Botta, and Mr. Harris.

Committee to apply to City Councils for a portion of the Funds bequeathed by Mr. Scott, of Edinburgh,* is discharged.

Election of six new members: G. A. Otis, of Boston; C. C. Biddle, of Philadelphia; Dr. E. DeButts, of Baltimore; Jas. Workman, of New Orleans; Prof. P. Afzelius, of Sweden; Sir Jas. Wylie, of St. Petersburgh.

1821. May 4. (Patterson; Vaughan, Say, Collin, Duponceau, Barnwell, Lukins, Eberlé, Parrish, Bache, Nuttall, LeSueur.)

Donations from various persons.

Catalogue Committee continued for six months.

Vaughan, Patterson and Strickland, Committee on Oration by Duponceau, to report time and place.

1821. May 18. (Duponceau; and 12 others.)

Oration Committee reported that it would be delivered at the University on the first Wednesday in June.

The death of Dr. J. A. Albers, of Bremen, announced. Donations from several persons.

[°] of. page 480.

Appropriation of \$30 for "expense that may be incurred by M^{r.} Nuttall in procuring drawings of certain newly discovered plants;" Mease, Collins and LeSueur to carry resolution into effect.

1821. June 8. Special Meeting. (Patterson; and 14 others.)

Oration Committee reported that it had been delivered "before a large & highly respectable audience;" subject: "The early history of Pennsylvania." Thanks to Mr. Duponceau voted; copy requested; and Committee to superintend its publication.

1821. June 15. (Duponceau; and 14 others.)

Oration Committee reported the MS. in the hands of the printer.

Nuttall's plants; Committee had received Mr. Nuttall's promise; and given him an order on the Treasurer.

Donations from Featherstonehaugh, Ivanoff, and the Lond. S. Arts.

Donations: Cabinet—a medal of the late Mat. Boulton, from his son.

"On the Empire of Morocco," by M. de Lesseps; read and referred to the Historical Committee.

1821. July 20. (Patterson; and 14 others.)

Donations from various sources.

"On the art of Mining," by Mr. W. H. Keating, of Philadelphia, was read.

Election of two new members: Count Gust. Wetterstedt, of Sweden, and Mat. Carey, of Philadelphia.

1821. Aug. 17. (Duponceau; Patterson, Lukins, Harris, Currie, Mease, Bache, Patterson.)

Donations from Tanner, Keating and Massachusetts Academy.

"Remarks on the Sandstone & Floetz Trap Formations of the W. part of the Valley of the Mississippi," and

"Catalogue of plants collected during a journey to and from the Rocky Mts. during the summer of 1820, by E. P. James, Bot. & Geol. Exploring Expedition commanded by Maj. S. H. Long, U. S. E.," were communicated by permission of the Government, by Maj. Long, and referred to Dr. Patterson, Nuttall and Trooste [sic].

1821. Sept. 10. Special Meeting. (Patterson; Duponceau, Vaughan, LeSueur, Say, Strickland, Carey, Meredith, J. G. Biddle, Hembel, Collins, Ord, Patterson, Beesley [sic], Allison, Staughton, Eberle, Chapman, James, Bache, Brown, Mease, 22.)

Canal Survey: W. Strickland, Dr. Patterson, J. G. Biddle, Reu. Haines, Dr. Mease, E. J. Dupont, of Delaware; John Adlum, and Dr. De Butts, of Md., were made a Committee "to examine and explore the shortest and most practicable route for a Canal connecting the waters of the Chesapeake and Delaware, view being had to the possibility of a Sloop navigation." The Committee was "authorized to confer, or to act in concert with, any committee that may be appointed by the meeting of citizens, which it is understood is about to be called for the same objects." An appropriation of \$100 was voted to defray the necessary expenses of the Committee in prosecuting said survey.

1821. Sept. 21. (Collins; and 19 others.)

Donations from various persons and foreign societies. For the Cabinet—from Mr. Z. Collins.

Canal Committee: Joshua Gilpin added.

1821. Oct. 5. (Duponceau; and 13 others.)

James's paper (Long's Exp.) (Aug. 17) reported for publication.

Donations: Library—from Mr. Nicholls.

Donations: Cabinet—from Dr. Jno. Henderson, and Laomi Baldwin.

Mr. Baldwin's donation of Argillaceous limestone, from Rome, N. Y., used "instead of Roman Cement," for the Erie Canal, was referred to Cloud and Mease for examination.

Astronomical papers from W. Lambert, were referred to Nulty, Patterson and Patterson.

Catalogue: Mr. Carey offered to publish it, if duly prepared for the press, and 100 copies subscribed for by the Society or members, at 75 cents per copy; also, to present 50 copies to the Society. Referred to Library Committee: Walsh, Vaux, DuPonceau and Vaughan.

1821. Oct. 19. (Patterson; and 21 others.)

Donations: Library-from Carey, and Sec. State U.S.

Donations: Cabinet—from Cloud and Maclure.

"Geometric exemplification of temperature, wind and weather for 1820 at Washington," by Josiah Meigs; referred to Carey, Patterson and Collins.

"The two pairs of entangled horns of Cervus virginianus," presented Oct. 5th, deposited for public inspection in Mr. Peale's Philadelphia Museum.

1821. Nov. 2. (DuPonceau; and 19 others.)

Donations: Library—from Clark Frazer, M. Carey, Schaeffer, S. Vater, J. Vaughan, Berlin Academy, and Medical Recorder.

Library Committee: M. Carey and Dr. Collin added.

List of available Candidates for membership: "Dr. Col.
lin offered the following resolution:

"Whereas authors of valuable treatises in the U.S. merit particular notice in the nomination of members for this Society, but some of them may not be generally known,—Resolved that the Counsellors shall always keep a list of those that have treated on the peculiar objects of the Society,

to wit: Pure Mathematics in its various branches, Geometry, Algebra, Fluxions, Natural Philosophy, Astronomy, Mechanics, Navigation, Fortification & Artillery, Meteorology, Mineralogy, Chemistry, Geology, Nat. Hist. of the U. S., Physiology & Anatomy, Languages, so far as relative to the Nat. Hist. of mankind, animals and countries."

Referred to Chapman, Hopkinson and Carey.

1821. Nov. 16. (Collins; and 15 others.)

Meigs' paper (Oct. 19): Chairman ordered to report at next meeting.

Donations from various sources.

1821. Dec. 7. (Patterson; and 20 others.)

Donations from several persons.

Turin Academy to be furnished with missing Transactions of the American Philosophical Society.

Weights and Measures:

"Resolved that Com. be appointed to confer with Mr. Plitz" as to "what further measures are required for obtaining a good system of Weights and Measures in this State, than are contained in his communication; and whether and how this Society can contribute to the promotion of that object."

—Duponceau, Patterson, Mease.

Adjournment to Friday, Dec. 14, to audit the Treasurer's accounts and other business.

Annual Orator: Nominations made—Hopkinson, Walsh, Beesley [sic], Mease, Chapman, Seybert, Dr. Patterson, Collin. Election of Orator fixed for Dec. 21.

1821. Dec. 14. Adjourned Meeting. (Patterson; and 14 others.)

Treasurer's account submitted and referred to C. C. Biddle, Bache and Carey, Auditing Committee.

Board of Officers reported no Magellanic or Extra-Magellanic Premium applications.

Meigs' paper (Oct. 19): Report of Committee adopted.

Ebeling's American Geography lent to F. C. Schaeffer, of New York.

Donation from Mr. Schaeffer.

Harvard University having sent a printed memorial to Congress for Free books, it was referred to Carey, Dr. Patterson and DuPonceau.

Dr. Meade's request for a room in which to deposit his collection of minerals, was referred to Ord, Dr. Patterson and Collins.

1821. Dec. 21. (DuPonceau; and 15 others.)

Auditing Committee reported in the Treasurer's hands a balance of \$54.16 (Rittenhouse Fund), \$24.40 (Magellanic Fund). Due the Treasurer (General Fund), \$82.82.

Dr. Meade's request reported on and refused.

Weights and Measures: Committee reported it inexpedient to petition the Legislature for a law. Report adopted.

Free book memorial Committee reported progress.

Donations from Pedersen, and Hort. S., London.

Donation for the Cabinet from Major Abert, U. S. A.

Orator elected: R. M. Patterson.

Magellanic Premium: Report of Board of Officers re-read and confirmed: none awarded this year.

1822. Jan'y 4, 2 P. M. (Vaughan; J. G. Biddle, C. C. Biddle, Collin, Hembel, Ord, Chapman, DuPonceau, Bache, Dewees, Patterson, Patterson, Currie, Hopkinson.)

ELECTION OF OFFICERS.

President—R. Patterson.

Vice-Presidents—Tilghman, Duponceau, Collins.

Secretaries—Hewson, R. M. Patterson, Walsh, Ord.

Councillors—Binney, Adams (J. Q.), Sergeant, Rawle.

Curators-Cloud, Say, Horner.

Treasurer-Vaughan.

1822. Jan'y 4, Evening. (Patterson; Nicholls, Carey, Leseuer, Seybert, Nuttall, Lukins, Mease, and 9 others.)

Memorial to Congress for freedom to import books; draft read, and "received," and the President directed to sign and transmit it to the City Representatives in Congress. Vote reconsidered and again passed.

Oration: Dr. Patterson declined the appointment. New nominations—Walsh, Beesley, Collin, Chauncey, J. E. Hall, Mease, and N. Biddle. Election to take place at the next meeting.

Extra-Magellanic Premium: Communication from "a patriot of '76;" referred to the Board of Officers.

1822. Jan'y 18. (Tilghman; and 22 others.)

Donations from numerous persons; for one from Murray, Fairman & Co., of a full set of Rees's Cyclopedia, special thanks were voted.

"On a new principle of masting ships," from S. Humphreys, Master Builder at the Navy Yard, Philada.; referred to W. Jones, Ord, and Dr. Patterson.

A MS. Vol. of Met. Obs. was offered for use by Mr. Legaux, who was requested to make a summary to be placed on file.

Orator elected: Rob. Walsh, Jr.

Librarian elected: J. Vaughan.

Election of five new members: Baron Wm. Von Humboldt, of Berlin; Peter Poletica, Min. Russia to U.S.; Peter Pedersen, Min. Denmark to U.S.; Sam. Parkes, Chemist, of London; and Sol. W. Conrad, of Philadelphia, "was chosen as a resident member."

1822. Feb'y 1. (Collins; and 14 others.)

Donation: Cabinet-from Mr. Darby.

Committee to publish donations, &c. (March 17, 1820), discharged.

Building Committee selected for 1822: Vaughan, Dr. Patterson, Strickland; and \$100 appropriated for their use.

Appropriation of \$100 in addition to the unexpended balance of 1821, for Journals, &c., in 1822; \$50, plus balance, for binding books; \$100 for all other Society expenses to be expended by the Librarian.

1822. Feb'y 15. (Patterson; and 14 others.)

Catalogue Committee discharged; and a new Committee chosen, Carey, Collin, Dr. Patterson. Afterwards, R. Patterson added.

"Resolved, That in future the Librarian shall send a written notice to the chairman of every committee of the object of its appointment."

Donation from M. Carey.

Magellanic Premium; Mr. Carey appointed a Committee to print and circulate 3000 copies of its notice.

Subscriptions to Edinburgh and Quarterly Reviews, North American Review, and New York Repository, authorized.

1822. March 1. (DuPonceau; and 19 others.)

Catalogue Committee reported progress; a letter from Mr. Patterson on the subject was read.

Report on Humphrey's paper (Jan. 18) laid on the table.

Donations from several persons and the Asiatic Society. De La Forest's printed pamphlet on Yellow Fever was referred to Mease, Hartshorne and Dewees.

"Remarks on a portion of the Muscular Structure of the Eyelids, not commonly noticed by writers," by Dr. Horner, was referred to Hewson, Gibson and Parrish.

Humphrey's paper; report taken from the table; and Dr. Hare's resolution that Mr. Humphrey's letter be published, and he be furnished with a copy of the report of the Committee, postponed to the next meeting.

1822. March 15. (Collins; and 19 others.)

Library Committee resolutions adopted: That the Committee be authorized to have made a complete Catalogue of Books, Pamphlets and MSS. at an expense not exceeding \$50. Vaughan added to the Committee.

Canal Committee discharged.

Lambert's Astronomical papers: Committee discharged. Donation from Mr. Vaughan.

Dr. Hare's resolution of March 1, in relation to Hum-

phrey's paper, withdrawn.

Ord's collection of books made in London: Resolution of Mr. Vaughan that it be purchased; referred to the Library Committee.

1822. April 5. (Patterson; and 18 others.)

Ord's collection of books: Reference to the Lib. Com. rescinded, and purchase ordered; for \$150.

Horner's paper: Committee continued.

Donation of two engravings from Mr. Pekenino; and of books from various persons.

A. MS. "Description of New Sweden and the [blank] Indians, or Geography of America, dedicated to the Prince Royal, afterwards King Charles XII, by Peter Lindhestrom, Swedish Engineers; a MS. of the year 1691, preserved in the Archives of the Chancelry of H. M. the King of Sweden & Norway, accompanied by a Map," presented by Mr. Wm. Jones, was put into the hands of the Historical Committee.

"The Valuable MSS. extracted from the Swedish Archives and presented by his Excellency Jonathan Russell, in July 1820, were also ordered to be put into the hands of the Historical Committee."

"Names which the Lenni Lenape had given to rivers &c within Newjersey [sic], Maryland & Virginia, . . . of chieftains the signification of most of those names biographical sketches" by Mr. John Heckewelder, of Bethlehem, was presented and put into the hands of the Historical Committee.

1822. April 19. (DuPonceau; Hopkinson, Schweinitz, and 16 others.)

Baron Larey's [sic] pamphlet on Yellow Fever: Committee reported that they had not found anything in it new or important.

Donations from various persons.

C. W. Peale's application for the use of such rooms as the Society could spare, after the expiration of Mr. Sully's lease, was referred to Vaughan, Patterson and Mease.

Election of three new members: Dr. Rich. Harlan, of Philadelphia; Prof. Zach. Nordmark and Prof. Jons Svanberg, both of Upsal.

1822. May 3. (Duponceau; and 17 others.)

Extra Magellanic Premium: The Board of Officers reported on an application for "The Universal Protractor;" as not sufficiently worthy; report accepted.

C. W. Peale's application; Committee reported and were discharged.

Horner's paper: Committee ordered to report.

Donations from various sources.

Mr. Vaughan applied for the rooms, which Mr. Peale had applied for, and his application was referred to Seybert, Mease and Bache.

1822. May 17. (Duponceau; and 17 others.)

Lease to the Athenaum, reported executed, and to continue for five years from June 22, 1822.

Vaughan's verbal application was renewed, in written form, through the Committee: Offering \$100 annual rent for all the rooms occupied by Mr. Sully, except those on the first floor leased to the Athenæum (thus making up the \$600 paid annually by Mr. Sully); lease to run five years from June 22, 1822; rooms to be kept in good order; and fire and candles for \$20 per annum, as with Mr. Sully. Propo-

sal accepted by vote. Committee to execute a lease: Patterson, Morgan and Hall.

Donations from various persons.

Donations for the Cabinet: Sulphate of Magnesia from Wm. Maclure.

"Analysis of the Maclurite, or Fluosilicate of Magnesia, from New Jersey," by H. Seybert; read by Dr. Bache; and ordered to be engraved in the minutes. [Analysis follows.]

Prof. Hare read a printed correspondence between Prof. Silliman and himself on the Fusion of Charcoal by the Deflagrator.

On certain Indian tribes, in a letter from Dr. John Sibley at Nackitosh to Mr. Duponceau was read.

The Phrenological Society's request for the use of a room was refused, "as the apartments are all occupied."

1822. June 21. (Patterson; and 12 others.)

Horner's paper; Committee discharged; new Committee, Harlan, Parrish, Mease.

Transactions: Committee on new Volume, ordered to report.

Library Committee appointed March 15, discharged.

Donations from Tanner, and the Salem Marine Society, &c.

Ancient Mexican Cloth, a donation for the Cabinet, from Mr. Curson.

Portrait of Alexander Wilson, from Dr. Chapman.

Extra Magellanic Premium: "Instrument for finding Specific Gravities;" referred to Board of Officers.

Transactions N. S.; A set granted to Alleghany College.

Appropriation of \$50 additional for the use of the Libra-

rian.

1822. July 19. (Collins; and 11 others.)

Board of Officers reported progress on Extra Magellanic Premium paper.

Analysis of Hydraulic Lime from New York, by H. Seybert, reported by the Committee and ordered for publication.

Horner's paper reported for publication.

Transactions: Committee on new Volume reported progress.

Donation: Library—from various sources. Donation: Cabinet—from S. Parkes.

Transactions: full set ordered to the Astronomical Society, London.

Election of new members not entered into for want of a quorum.

1822. Aug. 16. (Duponceau; and 11 others.)

Transactions: Committee on new Volume reported progress.

Donation: Library—from various sources. An extensive collection of statistical works, documents and books from Dr. Adam Seybert; thanks voted.

1822. Sept. 20. (Patterson; and 16 others.)

Board of Officers' report on Extra Magellanic Premium paper, laid on the table, for action at next meeting; notice to be given.

Donations from Societies and persons.

1822. Oct. 4. (Collins; and 18 others.)

Transactions: Committee on new Volume reported progress.

Donation: Library—from several persons. Donation: Cabinet—from S. Merrick.

Legaux's abstract of his Meteorological Observations at Spring Mills in 1820-21, and R. Haines' Observations at Germantown, 1820-21, "with a Barometer graduated after that of Mr. Legaux," were referred with all other Meteorological

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Observations in the possession of the Society, to Hembel, Patterson and Mease.

Board of Officers' report on Extra Magellanic Premium paper called up and adopted.

1822. Oct. 18. (Duponceau; and 16 others.)

Meteorological Observations Committee reported progress. Transactions: Committee on new Volume, reported a proposition from Mr. Small; consideration postponed, and Mr. Carey added to Committee.

Donations from several sources.

Catalogue; resolution to prepare and print one laid on the table.

Election of five new members: J. B. de Andrada e Selva, Min. &c., Brazil; Gott. E. Schultze, Aulic Coun., &c., Prof. Phil. Göttingen; Condy Raguet, Phila., Consul U. S. to Brazil; W. H. Keating, Prof. Min. and Chem., Univ. Pa.; Lardner Vanuxem, Prof. Min., Coll. Columbia, S. C.

1822. Nov. 1. (Collins; Keating and 17 others.)

Meteorological Observations Committee reported progress. Transactions: Committee on new Volume, reported Mr. Small's offer to print it at \$5 a copy, if 250 were subscribed for, and to give the Society 60 for their foreign and domestic correspondents; 13 or 14 plates; 600 copies to be printed; all above 250 + 60 offered to the Society at \$1.00 in boards, at their option to buy. Committee continued, to secure subscriptions.

Donations from various sources.

Appointment of Catalogue Committee postponed.

1822. Nov. 15. (Patterson; and 14 others.)

Donations from Warren and Mease.

Print of Sir Isaac Newton from Dr. Jas. Mease.

Committee appointed to report a plan for a Catalogue, Carey, Seybert and Mease.

Mr. Vaughan's offer of Nicholson's Encyclopedia, 12 Vols., 8°, for 95 cents a volume, postponed to next meeting.

1822. Dec. 6. (DuPonceau; and 18 others.)

Catalogue Committee reported:

1. That it was highly expedient to print a Catalogue speedily, and

2. That the Librarian should have necessary assistance in arranging the books according to sizes, classed in order of subjects, and numbered on the plan adopted by the Library Company of Philadelphia.

Resolutions adopted. Vaughan added to the Committee. Committee authorized to carry the plan into effect.

Hentz on the Anatomy of the Mocking Bird: Committee reported; report accepted.

Donations: Library—from numerous sources. Donations: Cabinet—from Mease and Walsh.

"On Hernia" (in French), by Dr. Elkendorp, was read by Mr. Duponceau, and referred to Hewson, Horner and Harlan.

Treasurer reported his accounts; referred to Carey, Patterson, Hembel.

Nicholson's Encyclopedia accepted from Vaughan.

No Magellanic or Extra-Magellanic Premium papers.

1822. Dec. 20. (Duponceau; and 19 others.)

Auditing Committee reported the Treasurer's accounts and vouchers correct and complete.

Balance in	n favour	of the	Magellanic Fund	\$473	40
66	**	6.6	Rittenhouse Fund	63	39
4 6	66	**	Treasurer	15	26

Elkendorf's paper: Committee's report accepted.

Donations numerous; among them 14 Vols., completing set of Turin Transactions.

Treasurer allowed \$10.00, the expense of arranging the the books, and copying Dr. E. James' communications.

"Acting Secretary," Mr. Ord directed to wait on Mr. R.

Walsh, Jr., to enquire "what progress he had made, and when the Society should expect the Oration to be pronounced."

1823. Jan'y 3. 2 P. M. (Patterson; Duponceau, Collins, Vaughan, Collin, Harris, Ord, Patterson, Dewees, Keating, Hembel, Carey.)

ELECTION OF OFFICERS.

President—R. Patterson.

Vice-Presidents—Tilghman, DuPonceau, Collins.

Secretaries—R. M. Patterson, Walsh, Ord, Keating.

Councillors—Chapman, Hare, Hembel, C. C. Biddle.

Curators—Say, Horner, Lukins.

Treasurer—J. Vaughan.

1823. Jan'y 3. Evening. (Patterson; Duponceau, Vaughan, Ord, Hembel, Lukens, Seybert, Dr. Patterson.)

Annual Oration: Mr. Ord reported that Mr. Walsh would make a written communication on the subject.

Investing Committee "to vest the surplus of the Mag. & Rit. funds in such permanent stock as they may select," Seybert, Patterson and Vaughan.

Donation to the Library from Major Long.

1823. Jan'y 17. (Collins; Patterson, Duponceau, Collin, Harlan, Seybert, Bache, Hembel, Vaughan, Nicholls, Lesueur, Keating, Lukens, Meade, Chapman.)

Oration: Mr. Welsh was, at his own request, "exonerated from the duty" Nomination of candidates fixed for the next meeting.

Building Committee chosen: Vaughan, Strickland, Dr. Patterson; \$100 appropriated for 1823.

Librarian elected: J. Vaughan, \$100 put at his disposal for periodicals in 1823; \$50 and the balance of 1822 for binding; \$100 for all other expenses of 1823. Resolution to

stop the Monthly Magazine and take the Edinburgh Philosophical Journal; laid on the table.

Hassler's paper. Permission to withdraw it laid on table. Election of four new members: Rev. John Plitt, of Philadelphia; Baron Coquebert de Montbret; Gaspard Deabbate, Cons. Gen. Sardinia; Dr. Sam. Jackson, Prof. Phar. and M. M. College of Pharmacy, Philadelphia.

1823. Feb'y 7. (Patterson; Duponceau, Collins, Vaughan, Mease, Pedersen, Hall, Nicholls, Seybert, Ord, Bache, Lukens, Horner, Meade, Lesueur, Chapman, Strickland, Hopkinson, Dr. Patterson, 19.)

Donations from various persons.

Hasler's [sic] paper: Mr. Hasler [sic] to be informed that in spite of the long delay the printing of the Volume of Transactions would be "commenced early next spring."

Periodicals: Change of Edin. P. J. for Monthly Magazine voted.

Oration: C. J. Ingersoll and Dr. W. Gibson nominated.

Books, 59 Vols. purchased at a late public sale, and offered to the American Philosophical Society for \$110.48. Resolution to authorize the purchase laid on the table.

1823. Feb'y 21. (Tilghman; Patterson, Duponceau, Vaughan, Strickland, Collin, Lesueur, Deabbate, Hall, Mease, Hembel, Horner, C. C. Biddle, Ord, Nicholls, Hopkinson, Chapman, Beasley [sic], N. Biddle, Dr. Patterson, 20.)

Donations: Library—from Horner, Pedersen, and Prof. Cleaveland. Donations: Cabinet—from C. Bulfinch.

Extra Magellanic paper "On a New Hydrant," referred to Board of Officers.

Books: Purchase (\$110.48) ordered.

Mr. C. J. Ingersoll chosen annual orator; Secretary to notify, and inquire time and place.

1823. March 7. (Duponceau; Morgan, Pedersen, Eberlé, Troost, and 13 others.)

Oration: Ingersoll accepts for November next.

Extra Magellanic Premium of (blank) dollars recommended by the Board of Officers to the inventor of the "Improved Hydrant." (Motto: *Ultra quam satis est, virtutem se petat ipsam.*) To be acted on at next meeting, and notice given.

"Met. Obs.," from Jos. Lovell, referred to Patterson, Hembel, Mease.

Librarian's quarterly publication of donations dispensed with until after the issue of the next volume of Transactions.

1823. March 21. (Patterson; Drs. Jackson, Troost, Du-Pont, and 17 others.)

Donations from Harding, Bache, Klaproth, and Godman. Extra Magellanic Premium of \$55 (March 7) ordered, for Dr. Jas. Ewing, of Philadelphia, the inventor of the "Improved Hydrant."

1823. April 4. (Duponceau; Patterson, C. C. Biddle, Hall, Pedersen, Vaughan, Patterson, Short, Deabbaté, Mease, Lukens, Collins, Ord, Chapman, Le Sueur, Hewson, Strickland, Keating, 18.)

Extra Magellanic Premium in the form of a medal suited Dr. Ewing better, and one was ordered.

Donations for Library, from R. Walsh, Jr. and Victor Value; "MS. documents relating to the Connecticut Controversy," were received from R. Conyngham, with a letter of donation.

1828. April 18. (Patterson; DuPonceau, Vaughan, Mease, Carey, Pedersen, Staughton, C. C. Biddle, Chapman, Collin, Hall, Lesueur, Patterson, Ord, Harlan, Nicholls, Horner, Eberlé, Bache, Say, Seybert, Keating, 22.)

Catalogue Committee reported verbally.

Donations for Library from Geological Society of London and Asiatic Society of Calcutta.

1823.

Election of nine new members: Dr. B. H. Coates, Dr. Jason O'B. Lawrence, Joseph Count de Survilliers; all of Philadelphia; Jas. Cooper, of New York; Dr. W. Darlington, of Pennsylvania; Lucien, Prince of Canino, of Rome; Paul de Lövernorn, Rear Ad., Denmark; Prof. H. C. Schumacher, of Copenhagen; Rev. Dr. W. Bengo Collyer, of London.

1823. May 2. (Tilghman; Patterson, Duponceau, Vaughan, Carey, DuPont, Lee, Deabbaté, Seybert, Dewees, Horner, Hall. Jackson, Vaux, Nicholls, Harlan, Lukens, Coats [sic], C. C. Biddle, Strickland, Lesueur, Ord, Dr. Patterson, 23.)

Donations from various sources.

A new Ballot Box, with its description, was presented by Mr. Ben. Dearborn.

1823. May 16. (DuPonceau; Dr. Lawrance, Coates, Jackson, and 11 others.)

Donations from numerous sources.

Catalogue of Library now in press; 250 copies ordered to be struck off.

Mr. Vaughan's proposition to purchase a list of books (price, \$104.75) was postponed.

By-Law Committee appointed to report the Rules and Orders adopted since the publication of Laws and Regulations in 1814: Carey, Vaughan, C. C. Biddle.

1823. June 20. (Duponceau, and 19 others.)

Library Catalogue: Verbal report of Mr. Vaughan; 250 copies additional ordered to be struck off.

Donations from various sources.

"Notices historiques sur l'Origine du Culte Evangélique

des Vaudois," &c., by M. Deabbaté, was read and referred to the Historical Committee.

Mr. Vaughan's purchase of books was authorized.

Mr. Vaughan was, on Mr. Carey's motion, thanked "for his extraordinary care and attention in the arrangement of the Library; for his great exertions in procuring contributions for it, and for his own very liberal donations.

Mr. Vaughan's portrait was then ordered to be painted and "preserved in [the Society's] Hall, as a token of the sense which they entertain of his merits and services." Portrait Committee: Carey, Dr. Patterson, DuPonceau.

1823. July. 18. (Collins; Patterson, Vaughan, Collin, Trooste [sic], Patterson, Lawrance, C. C. Biddle, Harlan, Hare, Carey, Nicholls, Lesueur, Seybert, Hall, Horner, Brown, Chapman, Dewees, Hopkinson, Coates, Jackson, Ord, 23.)

Portrait Committee reported progress, and Mr. Vaughan's thanks for the same.

Donations for Library from various sources.

Donations for Cabinet from Dietz and Davis.

Jefferson's letter to the President, referred to Secretary Walsh.

Election of a new member: Wm. Lawrence, F.R.S., London.

1823. August 15. (Patterson; and 10 others.)

Donations from numerous sources.

Berber (Kabyle) Vocabularies, with three letters to Du-Ponceau from U. S. Consul, W. Shaler, were referred to DuPonceau, Dr. Patterson and Collin.

Meteorological Observations at Washington made by J. De Wallenstein, Secretary of Legation, Russia. The President read a letter respecting these observations.

1823. Sept. 19. (Tilghman; and 14 others.)
Donations from numerous sources.

Berber Vocabularies: Committee discharged to permit Mr. DuPonceau to read a paper in which he had remodeled Mr. Shaler's letters. This paper was then referred to Dr. Wilson, Dr. Wylie and R. Patterson.

1823. Oct. 3. (DuPonceau; and 16 others.)

Berber Vocabularies: An additional communication from Mr. Shaler was referred to the same Committee.

Donations for Library from M. Carey, Vaughan, V. Value and Soc. Antiq., London.

Vaughan's Portrait, by Sully, was exhibited and \$100

appropriated for its cost.

C. J. Ingersoll being prepared to deliver the oration, Vaughan, Dr. Patterson and C. C. Biddle were appointed a Committee of Arrangements.

Committee authorized to append to the Catalogue By-Laws, List of Members, &c.

1823. Oct. 17. (Collins; Troost, Lukens, Vaughan, Dr. Patterson, C. C. Biddle, Seybert, Mease, Deabbaté, Pedersen, Hall, T. Gilpin, Strickland, Nicholls, Patterson, Coates, Vaux, Dewees, Hare, Morgan, Chapman, N. Biddle, Pollock, Lesueur, Ord, 25.)

Committee on annual oration reported Dr. Chapman's lecture-room in the University as the place, and the published (newspaper) time, "Saturday next, at noon."

Catalogue Committee reported the Catalogue in press.

Shaler's (Berber) papers, (Aug. 15), reported for publication.

Numerous donations for the Library.

Donations for the Cabinet: Specimen of "Cryolite, or Alumine fluatic alkaline of Haüy, from the western coast of Greenland, its sole locality," from Rev. Mr. Hüffel.

Books: Reply of J. B. de Andrada e Silva to Condy Raguet, U. S. Consul at Brazil, "respecting some books which the Society is anxious to procure."

Election of four new members: Maj. S. H. Long, Philadelphia; W. J. Macneven, M.D., of New York; Maj. Nat. A. Ware; The Chevalier John M. DuPonceau, of France.

Adjourned to 1 o'clock to-morrow, immediately after the oration had been delivered.

1823. Oct. 18. Special Meeting. (Rawle; Patterson, Short, Meredith, Ord, Hewson, Otto, Seybert, Deabbaté, Mease, DuPont Vaughan, Walsh, Horner, 14.)

Thanks voted to Mr. C. J. Ingersoll, and a copy of the oration asked.

1823. Nov. 7. (Patterson; and 11 others.)

Donations for Library from various sources.

Donations for Cabinet: Minerals from Mr. Ware.

Analysis of very rich Dutchess county soil, from Dr. Macneven, New York; referred to Keating, Collins and Troost.

Description of a new air-pump offered for the Magellanic Premium; motto: *Homo naturæ minister et interpres*. Referred to Board of Officers.

Portrait of Washington: Permission to copy it granted to Charles B. Lawrence.

Academy of Natural Sciences of Philadelphia inquired if the American Philosophical Society "could accommodate them by raising an additional story to its building." Referred to Vaughan, Strickland and DuPonceau.

Delaware Grammar: DuPonceau's proposition to print a translation of it in the new volume of Transactions. Referred to Dr. Patterson, Collins and Carey.

1823. Nov. 21. (DuPonceau; and 13 others.)

Magellanic Premium: Report of the Committee of the Board of Officers, recommending delay until the "proposed new Air-pump shall be presented for examination."

Academy of Natural Sciences: Committee reported progress.

Donations for the Library from Von Hammer, R. Wilcocks, C. F. Schumacher, Chapman, Tucker and Small.

1823. Dec. 5. (Collins; and 22 others.)

Academy Committee's report "against raising an additional story to the Society's Hall, for the accommodation of the said Academy," was adopted.

Catalogue Committee reported progress.

Zeisberger's Delaware Grammar: Committee reported in part.

Donations for Library from seven sources.

Deposited in the Library by Mr. Vaughan: R. Boyle's Works, 6 Vol. 4°.

Election fee: "Mr. Carey laid on the table a Resolution, 'That in future, those members who nominate strangers, residing abroad pay [] dollars on the election of such candidates."

Treasurer's account not ready.

Adjournment to Dec. 12th voted.

Oration in 1824 to be considered at the next stated meeting.

1823. Dec. 12. Adjourned meeting to audit the Treasurer's accounts. (DuPonceau; Vaughan, Mease, Nichols, Dewees, Say, and Dr. Patterson.)

Auditing Committee appointed: C. C. Biddle, Hembel, and Ord.

1823. Dec. 19. (DuPonceau; Vaughan, Collin, Lukeus, Troost, Nichols, Hembel, C. C. Biddle, Bache, Morgan Carey, Long, Patterson, Barnwell, Hare, Harlan, Jas. Gibson, Seybert, Lesueur, Say, Dr. Patterson, Dewees, Keating, and Ord, 24.)

Auditing Committee reported the accounts correct. Due

the Society from the Treasurer, \$271.87 on general account; \$284.60 on Magellanic Fund account, and \$9.40 on Rittenhouse Fund account. Treasurer's expenditures \$8.26 in excess of the \$100, App. No. 1; and \$40.10 in excess of \$100 App. No. 4. Deficiency appropriation of \$12.36 voted. Committee to invest the Magellanic surplus: R. Patterson and J. Vaughan.

"Analysis of Soil by Dr. MacNeven" (Nov. 7, 1822): Re-

port against publication accepted.

Julius Klaproth's letter from Paris, to be answered by DuPonceau.

Donations for Library from Klaproth and others.

Deposited by Mr. Vaughan: Bayle's Dictionary, 12 Vols. Folio.

"Des. and Chem. Anal. of *Retinasphalt*, discovered at Cape Sable, Magothy river, Ann Arundal Co., Md.," by G. Troost, M.D., was referred to Hembel, Collins and Lukens.

1824. Jan'y 2; 2 o'clock P. M. (Patterson; Duponceau, Vaughan, Collin, Hembel, Vaux, Nichols, C. C. Biddle, Ord, Coats [sic], Dr. Patterson, Mease, Harlan, Lukens, Seybert, Troost, Say, Barnwell, Keating, 19.)

ELECTION OF OFFICERS.

President—Robert Patterson.

Vice-Presidents-Tilghman, DuPonceau, Collins.

Secretarics-R. M. Patterson, Walsh, Ord, Keating.

Councillors-T. Jefferson, W. Maclure, Collin, W. Meredith.

Curators—T. Say, W. E. Horner, Dr. Jas. Mease. Treasurer—John Vaughan.

1824. Jan'y 2, evening. (Seybert; Vaughan, Nichols, C. C. Biddle, Lukens, Troost, Say, Lesueur, Harlan, Hembel, Pedersen, Barnwell, Long, Coats, Ord, 15.)

Retinasphalt analysis reported for publication.

Donations from N. Biddle, Jas. Webster, Turin Academy.

Investing Committee authorized to stay proceedings until next meeting.

1824. Jan'y 16. (DuPonceau; Sergeant, Mease, and 24 others.)

Librarian elected: J. Vaughan.

Building Committee for 1824: Vaughan, Dr. Patterson, and Strickland.

Appropriations of \$100 to Building Committee; \$150 for periodicals, \$50 for binding, \$150 for extras, Library, &c., expenses.

Librarian might purchase Stewart's Hebrew Grammar, second edition.

Patterson's resolution to lend the Extra Magellanic Fund surplus now in the Treasurer's hand, on security, to the Printer of the Transactions; and Vaughan's additional resolution, that the Committee might increase the loan to the necessary degree by withdrawing a part of the already invested surplus—were laid over to the next meeting.

Election of five new members: Moses Stuart, of Andover, Mass.; Henry Seybert, of Philadelphia; Julius Klaproth, of Paris; Jos. B. McKean, of Philadelphia; Alex. Pearson, Physician to the British Factory at Canton.

1824. Feb'y 6. (Tilghman; Mr. Seybert, Dr. Seybert, and 20 others.)

Donations from various sources.

Extra Magellanic Fund surplus resolutions adopted.

Annual oration: Duponceau called up his resolution of December 5th, which was discussed, and then postponed to the next meeting.

1824. Feb'y 20. (Patterson; Mr. Seybert, Mr. McKean, Major Ware and 16 others.)

Donations of books; and a donation of ores from Z. Collins.

Dr. W. Meade's resignation by letter was offered and accepted.

Oration in 1824 resolved on. Nominations for Orator to be made at the next meeting.

1824. March 5. (Duponceau; Vaughan, Nichols, Carey, Dr. Seybert, Say, Hembel, Harlan, Stricklin, Collin, Bache, Dr. Patterson, Lukens, C. C. Biddle, Short, Major Long, Ord, 17.)

Donations from Ed. Peale, R. Waln, Jr., Chapman, Mease.

"Anal. of Chrysoberyls from Haddam and Brazil," by Mr. Henry Seybert, was read by Dr. Bache, and referred to Drs. Bache, Patterson and Hare. [Analysis follows, occupying half a page.]

"Proceedings:" Committee appointed, on motion of Mr. Carey, to consider the propriety of publishing the Transactions in 8° form, and in cahiers or numbers, from time to time: Carey, Ord and Dr. Patterson.

Oration: Hopkinson, R. Hare, W. Gibson, H. Seybert, M. Carey, Tilghman, Dr. Adam Seybert, Chapman, S. Jackson, Langdon Cheves, all nominated for Orator. Nomination list to be kept open until the election takes place.

Transactions: Librarian instructed to enquire what volumes were wanted by the Society, as there were copies for sale at a very low price.

1824. March 19. (Patterson; and 22 others.)

Seybert's Analysis ordered to be published in the current volume of Transactions.

Octavo Transactions: Committee's report ordered to lie on the table.

Donations for Library from Lin., Hort. and R. Societies, and S. Parkes, London.

Zollikoffer's circular, "Remarks on Euphorbia," ordered to lie on the table.

MS. copy of letter of Philadelphia ladies to General Washington, in 1781, about donations of clothing for the Amer. army, and Washington's autograph reply, were read by Dr. Mease and referred to the Historical Committee.

Death of Jose Correa de Serra, at Lisbon, announced.

Letter of sympathy to his family ordered.

Election of orator postponed to the next meeting.

Minerals, fossils, &c., in the Cabinet shall not be described and "published in any work except the Society's Transactions, unless express liberty to this effect be first obtained from the Society." [Dr. Patterson's resolution; adopted.]

1824. April 2. (DuPonceau; Patterson, C. C. Biddle, Dr. Patterson, Ord, Say, Mease, Carey, Nichols, Dr. Seybert, Barnwell, Collin, Morgan, Vaughan, Hembel, Gibson, Lesueur, Chapman, Mr. Seybert, Long, Harlan, Coates, Keating, 23.)

Donations for Library from various sources.

Heckewelder's Portrait presented by DuPonceau.

"Obs. on the culture of Silk in Pa.," by P. A. Browne, was referred to Say, Dr. Patterson, Ord.

"A substitute for Locks in Canals," in a letter from Maj.

S. H. Long, was read and laid on the table.

"The Curators called the attention of the Soc. to the unsafe state of the Building, from the want of a proper grating to the cellar windows." Referred to Building Committee.

Library Committee reported Rules. Referred to Patterson, Biddle, Ord.

Octavo form of Transactions: Resolution called up and discussed. M^{r.} Carey offered a Resolution that Publishing Committee contract with some Bookseller to publish the Transactions in numbers (150 to 200 pages each), and to subscribe for [] copies for the Society; price not to exceed \$1.00 (except for expensive plates); the MSS. to be

put to press immediately; authors to receive 25 copies, within 10 days, if their papers do not exceed 30 pages, and within three weeks, if not exceeding 60 pages. This Resolution and the Publishing Committee's report were referred to the Board of Officers.

Dr. Chapman moved that "the admission fee be increased."

M^{r.} Carey moved that the Treasurer furnish a complete list of members in arrears, and employ a collector on a five per cent commission, with security for faithfulness.

Election of orator again postponed.

1824. April 16. (Patterson; DuPonceau, Hembel, Dr. Seybert, Short, Collin, Hopkinson, Meredith, C. C. Biddle, Chapman, Pedersen, Hare, Mease, Brown, Lukens, Mr. Seybert, Carey, Vaughan, Bache, Dr. Patterson, Lesueur, Sergeant, Say, Harlan, Barnwell, Long, Hall, Coates, Nichols, Ord, Keating, 31.)

Transactions: Board of Officers reported that after full consideration they had unanimously agreed that it was not expedient to change the 4° form; "but that hereafter, whenever the papers... are sufficient to fill 100 pages,... the same shall be published, so that the publication shall keep pace as nearly as possible with the communication of the papers," and that such determination should be published with the current volume. Report ordered to lie on the table.

Committee on Rules since 1814, reported; and were discharged.

Committee on Report of Library Committee reported unfavorably to the resolutions recommended by the Library Committee, and their report being adopted, they were discharged.

P. A. Browne's paper on Silk Culture: Committee reported against its publication, and were discharged.

Board of Officers reported against granting the Magellanic

Premium "for a new Air-pump." (Nov. 7, 1823.) Report accepted.

Donations of insects, &c., from Lewis Vanuxem, Allen Armstrong, and Gen. D'Evereux. Donations of books from Dutch Min. Pub. Inst., the Governor of South Carolina and Academy of Natural Sciences. Vanuxem's insects were referred to Say, Ord and Harlan.

Deposited by Mr. Vaughan: "53 Vols. of valuable books." Transactions: Resolutions of Board of Officers called up and discussed. Dr. Patterson moved their adoption. Dr. Bache moved to postpone. Mr. Carey moved to publish in 8°, "in the manner specified in the resolutions offered by Mr. Carey at a former meeting," Finally the debate was postponed.

Election of two new members: A. J. Von Krusenstern, Capt. Russian Navy, St. Petersburg; and Charles Buonaparte, Prince of Canino, of Philadelphia.

1824. May 7. (Patterson; Duponceau, Hopkinson, Barnwell, Meredith, Dr. Patterson, Vaughan, Morgan, Mr. Gibson, Brown, Dr. Seybert, McKean, Sergeant, Ord, Harlan, Troost, Say, Nicholls, Carey, Horner, Collin, Dewees, Rawle, Long, Bache, Jackson, Coates, Strickland, Lesueur, Hall, Hembel, and Keating, 32.)

Vanuxem's Insects: Report of Committee accepted.

Donations for Library from Leopold de Buch, in his letter to Alex. v. Humboldt, W. Rodrigue, and M. Carey.

Meteorological Observations at Washington, in 1823-24, by Jules de Wallenstein. Referred to Committee on Meteorological Observations.

Ed. Clark's letter applying for admission to and loans from the Library during "the preparation of a work which he proposes publishing," was read. Mr. Vaughan moved to grant the request on sufficient security. On motion of Dr. Seybert, laid on the table.

Transactions: Discussion of report of Board of Officers PROC. AMER. PHILOS. SOC. I. XXXIV. PRINTED JULY 24, 1884.

resumed. Carey's motion negatived. Patterson's motion to adopt the report divided. The first part (to publish the Transactions in 100 page parts) was adopted. The second part, amended to confine the published notice to the mere fact that the publication should be in 100 page parts, was also adopted.

1824. May 21. (DuPonceau; and 17 others.)

Wallenstein's communications and abstracts of the Journals reported for publication.

MS. Journal of Michaux in America presented by his son, F. André Michaux.

Donations for Library from various sources.

Deposited by Dr. Mease: Map of Pennsylvania in 1681.

Ferussac's "Bulletin Universel." Letter and prospectus from the Baron, read and referred to Dr. Patterson, DuPonceau and Keating.

The use of the Library was granted to Ed. Clark. (May 7.)

1824. June 18. (DuPonceau; and 14 others.)

Donations for Library from various sources.

MS. Vocabulary of the Darien natives, presented by J. M. Salazar, Columbian Minister to U.S., was referred to the Historical Committee.

Dr. Godman permitted to examine the Mastodon bones. Ferussac Committee requested to report at next meeting. Deposited by Mr. Vaughan: Gen. Syn. of Birds, 8 Vols., 4°, and Index Ornith., 2 Vols., 4°, by Latham.

1824. July 16. (Deponceau; Seybert, C. C. Biddle, Gummeré, Hembel, Vaughan, Jackson, Collin, Bache, Lesueur, Ord, Harlan, Keating, 13.)

Donations numerous.

A Letter from R. Waln, Jr., of Philadelphia, respecting a Chinese book presented by Judge Peters, was referred to the Historical Committee. Catalogue of Library reported by the Librarian to be complete. Thanks voted to the Library Committee, and especially to Peter S. DuPonceau.

Election of two new members: Chas. J. Temminck, of Paris; and Severen Lorick, Chargé d'Affaires and Consul General, Sweden and Norway.

1824. July 23. Special Meeting. (Tilghman; DuPonceau, Vaughan, Strickland, C. C. Biddle, Ord, Harlan, Hembel, Say, Lesueur, Meredith, Mease, Chapman, Nichol [sic], and Keating, 15.)

Death of the President, Robert Patterson, announced.

Resolved, That the Society meet to-morrow at 5 o'clock, P. M., at the house of Dr. Robert Hare, No. 291 Chestnut street, to proceed to the funeral.

But when it was moved that an Orator be chosen at the next stated meeting to deliver an Eulogium, and Mr. Vaughan informed the members that it was the express wish of the deceased to have no eulogium pronounced upon him, it was

Resolved, That Chief Justice Tilghman "be requested to draw up a biographical notice of the late President, together with an account of his services and connections with the Society," to be published in the next volume of Transactions, "together with the motives, which have precluded the Society from appointing an Orator."

A letter to the family was ordered to be written by a Committee consisting of Mr. Tilghman, Dr. Chapman and Mr. Vaughan. These proceedings were ordered to be published.

[The rest of the page and all the following page left blank.]

1824. Aug. 20. (Mease; Collin, Vaughan, Curry, Ord, Lukens, Hembel, Lesueur, Hall, Judge Workman, Harlan, Bache, Coates, Say and Keating, 15.)

The Committee to wait on the family of the late Presi-

dent, to express the regret of the Society at his loss, reported Mrs. Patterson's grateful acknowledgments.

Donations of books numerous.

Committee on Ferussac's Bulletin were directed to report on the propriety of requesting the Society's agent in Paris, M. Michaux, to complete the set of Bulletin Société Philomathique.

Lorick's thanks for election to membership read.

La Fayette's reception: On motion of Mr. Vaughan, it was

Resolved, "That a committee be appointed to make arrangements for the proper reception of our illustrious associate General La Fayette; to ascertain when it may be convenient to him to meet the Society; to prepare an address to be delivered on the occasion; and to call a special meeting at the time which the General shall appoint."

This motion being adopted, the Vice-Presidents and Secretaries were chosen the Committee.

Dr. DeKay, of New York, "permitted to have a series of casts of the bones of the *Megalonix* which are in the possession of the Society."

1824. Sept. 17. (Collins; Ware and 15 others.) Donation from Mr. Collins.

1824. Oct. 1. ("Duponceau, V. P. in the chair; Mr. Collins, General Lafayette, Mr. Short, Mr. Hembel, Mr. Vaughan, Mr. Ord, Dr. Patterson, Dr. Horner, Mr. Lukens, Dr. Eberlé, Dr. Harlan, Dr. Troost, Mr. T. Gilpin, Mr. Lorick, Mr. C. J. Ingersoll, Mr. Say, Dr. James, Mr. Meredith, Mr. Cloud, Mr. Vaux, Mr. Haines, Genl. Izard, Mr. Harris, Mr. Wm. Jones, Dr. Mease, Mr. Deabbaté, Dr. Bache, Dr. Collin, Mr. Walsh, Mr. C. W. Peale, Mr. J. R. Smith, Major Ware, Bishop White, Mr. Pennington, Dr. Colhoun, Dr. Jackson, Mr. J. E. Hall, Mr. Pollok, Dr. Coxe, Mr. C. C. Biddle, Mr. Cheves, Dr. Hewson, Mr. J. M. Scott, Mr. Strickland, Mr. Thompson, Mr. Hopkinson, Dr. Coates, Mr. Carey, Dr. Abercrombie and Mr. Keating, 51.")

Donations were received from many persons and societies.

"On the Improvement of Government" was read by C. J. Ingersoll, "which, on motion, was laid on the table." "It was resolved that the consideration of Mr. Ingersoll's communication be resumed." "It was resolved that it should be published in pamphlet form."

"Resolved, That the Librarian be directed to present to General La Fayette a copy of the New Series of our Transactions, a copy of our Historical Transactions, and a copy of our Catalogue, all handsomely bound."

"The Society was adjourned. [Signed] William H. Keating, Secretary."

1824. Oct. 15. (Collins; and 14 others.)

Meteorological Observations: Committee reported, and report adopted.

Donations for Library from various persons, and the Society of Useful Arts.

Donations "to the Musæum," from Mease, Vaughan, Collins and Troost.

"Desc. of a new form of Yenite from R. I.," by Dr. Troost, read and referred to Patterson, Lukens and Hembel.

Ferussac: Committee report in favor of subscribing for "the whole work," and of completing the set of the Bull. S. Philomathique, adopted.

Specimen of Siren lacertina, from Carolina, deposited by Dr. Mease.

Chevalier DuPonceau's letter of thanks read.

MS. of La Harpe referred to the Historical Committee, "to determine the propriety of publishing the whole or any part of it."

1824. Nov. 5. (Duponceau; and 19 others.)

Troost's paper on Yenite reported for publication. Donations for Library various.

Donation for Cabinet: A collection of American Medals struck in France, from Mr. Short.

Wm. Lawrence's letter of thanks read.

Extra Magellanic Premium: Committee appointed to consider the propriety of giving it "to ingenious men for any useful invention or discovery, although the authors may be known, or may not have applied for the same:" Mease, Hare, Lukens, Hembel, Ord.

1824. Nov. 19. (Collins; and 19 others.)

Extra Magellanic Premium: Committee not prepared yet for final report. Binney and Meredith added to the Committee.

Donations for Library various.

Baron Cuvier's acknowledgment of "our Catalogue" read. Historical Committee requested to report progress.

1824. Dec. 3. (DuPonceau; and 16 others.)

Historical Committee reported materials ready for a second volume, and that they were in treaty with a bookseller.

Donation for Library from DuPonceau, Short, Mitchell, and Révinus.

"On a Steam Engine without boiler," by Mr. A. Plantou, was referred to Patterson, Lukens and Hembel.

No applications for Magellanic Premium.

Adjourned to Dec. 10, to audit the Treasurer's accounts.

1824. Dec. 10. Adjourned Meeting. (Collins; and 10 others.)

Treasurer's accounts presented, and referred to Biddle (C. C.) Hembel and Ord.

1824. Dec. 17. (DuPonceau; and 11 others.)

Transactions: Appropriation of \$32.75, to purchase fifty

copies of Vol. IV, and fifty copies of Vol. V, as reported by the Librarian.

Auditing Committee reported the Treasurer's account correct. In the Treasurer's hands, on General Account, \$315; Magellanic Fund, \$769.10; Rittenhouse Fund, \$22.22.

Investment of the \$769 committed to Patterson, Biddle, Vaughan.

Plantou's paper: Committee reported; paper laid on the table.

Donations for Library from several persons.

1825. Jan'y 7; 2 o'clock, P. M. (Collin; Thomson, Vaux, Harris, Patterson, Hembel, DuPonceau, Sergeant, Gibson, Lukens, C. C. Biddle, Chapman, Jackson, Ord, Mease, Keating, Hopkinson, Strickland, Chauncey, Carey, Binney, Ware, Ingersoll, Dewees, Jones, Walsh, Parrish, Collins, N. Biddle, Vaughan, James, Bache, Moore, Bonaparte, Nichols, 35.)

ELECTION OF OFFICERS.

President—Wm. Tilghman.
Vice-Presidents—DuPonceau, Collins, Patterson.
Secretaries—R. Walsh, Jr., Ord, Keating, Fr. Bache.
Councillors—Binney, Sergeant, J. Q. Adams, Rawle.
Curators—Say, Horner, Mease.
Treasurer—Vaughan.

1825. Jan'y 7. (Tilghman; and 15 others.)

Donations for Library from Patterson; Klaproth, N. Y.; Lyceum, N. H.; and J. Hare Powel.

"On Ventilating Ships," by Capt. Jas. Barron, U. S. N., was referred to Patterson, Jones and Hemble.

1825. Jan'y 21. (Tilghman; and 22 others.)

Barron's paper: Committee reported progress.

Donation for Library from S. A. Mitchell, of Philad'a.

"On the Air-pump," with diagrams, by C. P., was referred to Patterson, Lukens and Hare.

"On a new method of transferring boats by transit locks substitutes for locks of ordinary construction," by Major Long, was read by Dr. Patterson: 1. By vertical lift; 2. By oblique lift or inclined plane. Paper in three parts, with a supplement. Specifications of machinery, in both senses; application of method to railroads; and method of supplying summit level from a feeder of lower level. Drawings. Ordered to lie on the table.

Extra Magellanic Premium: Dr. Patterson applied for it in behalf of a Philadelphian, inventor of a new method of magnetizing steel bars. Referred to the Board of Officers.

Laws of the Society: Committee to prepare them for publication, and to suggest beneficial alterations and additions, Ord, Patterson and Tilghman.

Pennsylvania Agricultural Society's application for one of the rooms referred to the Building Committee.

Lesueur permitted (under direction of the Curators) to make drawings from the bones in the Cabinet, described in the Transactions.

Building Committee for 1825—Vaughan, Strickland and Patterson. Appropriation for their use, \$100.

Appropriation for Librarian: \$150 for periodicals; \$75 for binding; \$150 for all other expenses.

Librarian elected-J. Vaughan.

Election of three new members: Count Nicholas de Romanzoff, and Count John Laval, both of Russia; and John J. Bigsby, of England.

1825. Feb'y 4. (DuPonceau; and 18 others.)

C. P.'s paper on the Air-pump: Committee reported progress.

Barron's paper: Dr. Patterson's "particular report" adopted.

Donations for Library from various persons.

Islandic Society of Antiquaries; Secretary's letter read by Dr. Collin, was referred to the Historical Committee.

Bigsby's letter of thanks read.

Mai. Long's letter respecting his communication was read; and his communication referred to a Committee: Patterson, Strickland, and Lukens.

Mr. Luken's Lithontriptor, a modification of Civiale's machine, applied to the destruction and extraction of calculi from the human bladder, was exhibited by him.

[Here the MS. Vol. ends with 11 blank pages.]

1825. Jan'y 7 (in the afternoon).* (Drs. Collin, Patterson, Jackson, Mease, Parrish, James, S. Moore, Chapman, Dewees, Bache; Messrs. Vaux, Du Ponceau, Gibson, C. C. Biddle, Hopkinson, Chauncey, Binney, C. J. Ingersoll, W. Jones, N. Biddle, J. J. Thomson, Harris, Hembel, Sergeant, Lukens, Ord, Keating, Strickland, Carey, Walsh, Collins, Vaughan, Ch. Bonaparte, Nichols, and Major Ware, 35.)

Election of Officers by ballot resulted in the choice of:

ELECTION OF OFFICERS.

President-Wm. Tilghman.

Vice-Presidents—Duponceau, Collins, R. M. Patterson. Secretaries-R. Walsh, Jr., Ord, Keating, Fr. Bache. Councillors-Binney, Sergeant, J. Q. Adams, Rawle. Curators-Say, Horner, Mease.

Treasurer-J. Vaughan.

1825. Jan'y 7 (in the evening). (Tilghman in the Chair: Vaughan, Patterson, Dewees, Harlan, Barton, Nichols, Le-Sueur, Du Ponceau, Say, Lukens, Hembel, C. C. Biddle, Keating, Bonaparte, Ord, 16.)

Donations for the Library from Klaproth and others.

"Ventilating Ships;" communication from Capt. Jas. Barron, United States Navy; read by Dr. Barton; referred to Dr. Patterson, W. Jones, Hembel.

^{*}The new minute book starts in with duplicate minutes of the meetings held Jan. 7, 21, and Feb. 4.

1825. Jan'y 21. (Tilghman in the Chair; Dr. Colhoun, Mr. Pederson, and 21 others, 24).

Committee on Barron's paper asked for further time, "having occasion to refer to authors not at present within their reach."

Donation to the Library from S. A. Mitchell.

"Air pump:" A paper signed C. P. with a sheet of diagrams; read and referred to Dr. Patterson, Lukens and Dr. Hare.

"A new method of transferring boats of burden, loaded carriages &c. from one level to another, by means of transit locks, serving as substitutes for locks of the ordinary construction." A communication from Major Stephen H. Long; read by Dr. Patterson; laid on the table. [The paper is described in the minutes as offering two plans: 1. vertical and 2. Oblique It comprised three parts: 1. Specifications of machinery for vertical lift; 2. Ditto for oblique lift; 3. "Of the method of transition as applied to railroads;" Supplement, method of supplying upper level by water per feeder, "situated below the Summit pound." Drawings accompanied both paper and supplement.]

Magellanic premium applied for by "a gentleman of Philadelphia" (through Dr. Patterson) for "the discovery of a new method of communicating the magnetic virtue to bars of steel;" referred to Board of Officers.

New Edition of the Laws of the Society: Committee appointed, and instructed "to suggest any such alterations and additions as they may think beneficial to the Institution." Ord, Patterson, Tilghman.

Application for the use of one of the Society's rooms, made, through Mr. Vaughan, by the Pennsylvania Agricultural Society. Referred to Building Committee.

Le Sueur's request granted to be permitted to make drawings of fossil bones in the Cabinet already described in the Transactions.

Building Committee chosen to serve until second meeting

in January, 1826: Vaughan, Strickland, Dr. Patterson. \$150 placed at the Committee's disposal.

Librarian: \$150 voted for the purchase of "periodical

publications;" also \$75 for binding.

"For all other current and necessary expenses of the Society for the ensuing year, \$150, at the disposal of the Librarian."

John Vaughan chosen Librarian.

New members balloted for and elected: Count Nicholas Romanzoff, of Russia; Count John Laval, of Russia; John I. Bigsby, M.D., of England.

1825. Feb'y 4. (DuPonceau in the Chair, and 18 others.)

Committee on paper by C. P. verbally reported progress. Library donations from A. Smith, Tanner, Nuttall, Vaux, Ray de Chaumont, Ac. N. S. Phil. and Islandic Antiquarian Society, a letter from which last was read and referred.

Dr. Bigsby accepted membership by letter.

Major Long's letter being read, his communication to the last meeting was referred to Dr. Patterson, Mr. Strickland and Mr. Lukens.

Mr. Lukens exhibited and explained the surgical use of his machine, the "Lithontriptor," being a modification of that of Civiale.

1825. Feb'y 18. (Tilghman; DuPonceau, Hembel, Lukens, Harlan, Dr. Patterson, Vaughan, Strickland, Keating, 9.)

Committee on C. P.'s paper recommended that it be laid on the table. Report adopted.

Committee on Major Long's paper reported progress.

Library donations from Edward Correa da Serra, of Paris, and others.

Mr. E. T. Correa da Serra's letter, Paris, October 10, 1824, "acknowledging the receipt of the letter of condolence written to him by this Society on the occasion of his father's death," was read.

Megalonyx:

"Resolved, That the casts of M. claws &c., in the possession of this Society be presented to the Lyceum of Natural History of New York.

1825. March 4. (Present, 17 members. Tilghman in the Chair.)

Committee on Major Long's "new method of transferring boats, &c.," "made a report unfavorable to the merits of this paper, which report was adopted."

Library donations reported.

Letter of thanks for the casts from the New York Lyceum.

Mr. Lukens was requested to put in repair the *Clock* "which stands over the Eastern door of the building of the Society."

Luken's *Lithontriptor*: Dr. Horner reported experiments, "and exhibited an artificial calculus of gypsum which had been perforated with the greatest ease in several directions in the dead subject."

1825. March 18. (Present, 19. Tilghman in the Chair; Drs. Bache, Harlan, Barton, Patterson, Mease, Coates; Messrs. DuPonceau, Vaughan, Say, LeSueur, Ord, Jones, Lukens, Bonaparte, Keating; Judge McKean; Majors Lorick and Long.)

Library donations reported.

Major Long's letter respecting the Committee's report was read; and it was resolved that the report be reconsidered, and its consideration postponed to the next meeting.

"Dr. Harlan communicated some observations on some of the Mammiferous animals of N. America, being part of a work which he is preparing for the press on that subject."

Com. Barron's "communication, and documents accompanying it, to be at his request returned to him."

1825. April 1. (Present, 24. Tilghman; DuPonceau, Judge Gibson, Vaughan, C. C. Biddle, Say, Dr. Troost, Dr.

Horner, Dr. Bache, Dr. Mease, Haines, Bonaparte, Dr. Patterson, Vaux, Dr. Collin, Short, Nichols, Dr. Harlan, Dr. Colhoun, Ord, Major Long, Lukens, Dr. Jackson, Keating.)

Fossils: Dr. Harlan read a notice of an extinct fossil Tapir; of a new species of Lepus; of a new genus (Osteopera) of the order Glires. Ordered "enrolled in the archives."

Some particulars relating to Mungo Park's death, contained in a letter from Consul General Shaler at Algiers, were read by Mr. Duponceau.

Major Long's paper was taken up; the report of the Committee discussed; and a substitute resolution proposed by Dr. Patterson, passed, viz.:

"Resolved, That Major Long be requested to furnish the Society for their Transactions, with such an abstract of his paper on transit locks, as with the drawings may be sufficient to explain these inventions, and bring them before the public."

Mr. Deabate's request to be allowed to take with him to Europe the tooth of the Mammoth, promising to send back exchanges, was referred to the Curators with power to take order.

The Directors of the Athenæum requested permission to remove the partition between the two northern rooms rented to them. Referred to the Building Committee with power to take order.

1825. April 15. (Present, 23. Duponceau in the Chair. Troost, Carey, Long, Bonaparte and others.)

Library donations from Michaux and others.

Gen. Geo. Izard's letter informing the Society "that he would take pleasure in promoting the objects of the Society by collecting such information respecting the Aborigines and the Natural History of the Territory of Arkansas, as his situation of governor of that Territory" would permit, was "referred to a Committee with instructions to prepare notes to assist Gen. Izard in his inquiries & observations," consisting of Keating, Chapman, Bonaparte and Duponceau.

Catalogue of the Library: Thanks (for copies) received from the London Institution and Royal Institution of Great Britain.

C. C. Brodie's "invention to repair the sides of ships, under the surface of the water." Model sent with a letter from Com. Barron. Referred to Board of Officers to report "whether the invention be worthy of the Magellanic or Extra Magellanic premium."

Weights and Measures: "Mr. Vaughan communicated the passage of a law by the Assembly of this State, appointing a board of Commissioners to examine & report upon the system of weights and measures in use in the Commonwealth."

New Members Elected.

M. Flourens, M.D., of Paris.

Count Real, of France.

Thomas Cadwalader,

John K. Kane,

John D. Godman,

Charles N. Bancker,

of Philadelphia.

Edward Livingston, of New Orleans.

1825. May 6. (Present, 27. Patterson in the Chair; Hopkinson, Ingersoll, Pedersen, Bancker, Kane, Morgan, Hare, Bonaparte, Godman and others.)

Brodie's invention reported by the Board of Officers worthy to receive the *Extra Magellanic* premium. Consideration of the report made special order for next meeting; notice to be given in the newspapers.

Izard's researches: Committee reported its "notes."

"Resolved, That a copy be transmitted to Gen. Izard, 'with a letter from the Secretary informing him that the Society is grateful for his offer and will be thankful for any communication,' "&c.

Library donations from Quoy and Guemard, of Paris; Deabate, Consul General of Sardinia; Jose da Silva Lisboa, of Rio Janeiro, and others. Capt. Krusenstern's letter of thanks for his election, with a donation of Pacific Ocean charts, Vol. I, and promise of following volumes, was read by Mr. Keating.

Count Real's thanks for election to membership reported.

1825. May 20. (Present, 26. DuPonceau in the Chair; Nicholas Biddle, Eberle, Dewees, Meredith and others.)

Library donations from various persons and the Royal Swedish Academy.

Mr. Strickland deposited a work on the New York Canals.

 $\mathbf{M}^{r.}$ Temminck's letter of thanks for membership was read.

Brodie's invention. Report of the Board considered, "and adopted by a vote of two-thirds of the members present."

On motion, the value of the *premium* just awarded was fixed at \$45, "to be furnished in a medal, or money, at the option of the inventor."

Bust of Franklin: The Franklin Institute's request for the loan of the cast of Flaxman's bust of Franklin and Reich's medal of the same, was referred to the Curators, with power.

Major Long was, on motion, permitted to withdraw his paper.

The Building Committee reported that they had permitted the removal of the partition. (See April 1.)

The Curator's reported that they had presented the tooth to M. Deabbate [sic]. (See April 1.)

1825. June 17. (Present, 14. Collins in the Chair; Vaughan, Harlan, Collin, Conrad, Pollock, Vaux, Godman, Say, Keating, Brown, Ord, Patterson, Bache.)

Library donations from R. H. Lee, Harlan, Collins, Patterson and the Academy Natural Sciences, Philadelphia.

Mr. Say said that Dr. Harlan's generic name had been anticipated by that of Cælogenus. (April 1.)

Agricultural Society's room-rent: The Building Committee was directed to consider the propriety of reducing the

rent paid by the Agricultural Society for their room; with power to take action.

Mr. Short's offer "to deposit his library in the Society's rooms" was accepted, with thanks.

1825. July 15. (Present, 18. Tilghman; Vaughan, Le-Sueur, Godman, Troost, Collin, Du Ponceau, Mease, Nicholls, Ord, Horner, Warren, C. C. Biddle, Keating, Hare, Collins, Say, Dr. Bache.)

Library Donations from M. Oliveira of Rio, and others. Catalogue received by the Literary and Philosophical Society, Manchester.

Historical Collections American Philosophical Society, Vol. I. Copy to be sent to the New Hampshire Historical Society.

New members elected: Don José da Silva Lisboa, of Rio Janeiro; Joseph R. Ingersoll, of Philadelphia.

1825. Aug. 19. (Present, 11. DuPonceau; Vaughan, Harlan, Godman, Nicholls, Mease, C. C. Biddle, Keating, Jackson, Dr. Coates, Dr. Bache.)

Library donations from Rob. De Silver, Charles Bonaparte, Rich. Hen. Lee and others.

Cabinet donation from the Natural Historical Lyceum of New York.

Weights and measures: Letter and documents from Wm. Vaughan, of London, "enclosing a letter to Davies Gilbert Esq. on the same subject."

Parement before the Hall to be extended by the Building Committee, "so as to make it uniform with the width, recently established by the city corporation."

1825. Sept. 16. (Present, 15. Patterson in the Chair; Jacobs, Short, Carey and others.)

Transactions American Philosophical Society, Vol. II, New Series, reported ready for delivery.

Library donations from J. T. Carré, Mrs. Ann Harris, of

Bellefonte, General Cortez, Commodore Kruzenstern, J. Barrozo de Pereira and others.

Cabinet donations from Dr. Mease and Mr. Rivinus.

Capture of the General Monk by the Hyder Ali during the American war. Dr. Mease's written communication was referred to the Historical Committee.

"Dr. Collin made a verbal communication respecting the weather of the preceding summer."

1825. Oct. 7. (Present, 16. Patterson in the Chair.)

Library donations from "his majesty, the King of the Low Countries," and others.

"Dr. Collin made a verbal communication on the subject of Languages."

Magnet: "The Vice President stated that he had recently examined a very powerful magnet, constructed by Mr. Franklin Bache, of this city, which sustained a weight of more than 310 pounds."

1825. Oct. 21. (Present, 20. Dr. Collins in the Chair; S. Conrad, Livingston, Pollok [sic], and others.)

Library donations from the Marquis Lascaris of Turin, C. S. Rafinesque, of Kentucky, and others.

New members elected:

Count Miot de Melito, of the National Institute of France. Philip Tidyman, M.D., of Germantown, Pa.

1825. Nov. 4. (Present, 15. DuPonceau in the Chair; Pedersen, Pollok, and others.)

Library donations from Niles, Say, Ord, Martigny, Mitchell, DuPonceau and the Lyceum Natural History, New York.

M. Martigny's letter on the subject of American geography was read.

Count Miot de Melito's letter of thanks for membership was read.

Count de Romanzoff's thanks (per Levitt Harris) were read.

"Dr. Mease read a letter, dated Monticello, Sep. 16, 1825, addressed to him by Thomas Jefferson, on the subject of the house in which he resided when he wrote the *Declaration of Independence*.

"Dr. Mease stated that he had ascertained the house to be that situated at the South West corner of Seventh and Market

Streets."

"Mr. DuPonceau made a verbal communication on the subject of American Iron."

"Dr. Mease read two letters from a soldier of the Revolution, named Major Jacquet, relating to several skirmishes and transactions wherein the writer had been engaged."

1825. Nov. 18. (Present, 16. Tilghman in the Chair; Hasler and others.)

Library donations from several persons.

Cabinet donation from Mr. Pedersen through Mr. Collins.

Mr. Macnevin's (of New York) request for the return of his paper previously offered the Society was granted.

"Mr. DuPonceau read a private letter which he had received from Mr. Von Hammer."

"Mr. Hasler made some remarks on Mummies."

"The first volume of a work published by Mr. Von Hammer, having been presented some time ago to the Society, through Mr. DuPonceau, by mistake, it was resolved that it be returned to Mr. DuPonceau, for whose private library it had been intended."

1825. Dec. 2. (Present, 13. Drs. Patterson; Collin, Moore, Harlan, Barton, Gibson, Chapman and Mease; Messrs. Vaughan, Nichols, Kane, Harris and Ord.)

Library donations from Desilver and Chapman.

Cabinet donation of a drawing of the Mammoth by Dr. Colhoun.

On the Grous [sic] of North America; in letters to John Vaughan from B. Vaughan, of Maine, and Dr. Holmes, of Maine.

Tidyman's letter of thanks read.

Keating's letter informed the Society that he had returned to Mr. Vaughan, the cast from Flaxman's head of Franklin, and the Medal by Reich; promising for the Franklin Institute that "as soon as the dies are hardened, a proof impression in silver, of the Institute Medal, will be presented to the Cabinet of the Society."

"New demonstration of the Binomial Theorem by W. Marrat of Liverpool," communicated per Mr. F. Nicholls, was referred to Nichols, Patterson and Nulty.

"The Treasurer, Mr. Vaughan, laid his annual accounts before the Society;" referred to C. C. Biddle, Hembel and Ord.

1825. Dec. 16. (Present, 19. Tilghman; Vaughan, Hasler, C. C. Biddle, Kane, C. Bonaparte, Morgan, Collin, Patterson, Nichols, Moore, Harris, DuPonceau, Dewees, Mease, Harlan, Collins, T. Gilpin, Ord.)

Auditing Committee reported balance due by the Treasurer to the Society: On the general account \$370.39; on the Magellanic Fund account, \$1015.67; on the Rittenhouse Fund account, \$31.45; excess of expenditure for foreign journals over appropriation, \$16.75; therefore recommend an appropriation of \$200 for 1826.

"The Committee also recommend the immediate investment of the large balance, now \$1015.67 due to the Magellanic Fund; and of which \$769.10 has been due more than a year.

"The present Insurance on the Books, &c. . . . is but \$4000; the Committee therefore suggest the propriety of increasing the Insurance to \$6000."

\$16.75 was then appropriated to supply deficiency as above.

Marrat's demonstration: Committee's report adopted. Committee appointed to invest the funds: C. C. Biddle, Patterson, Ord.

1826.

Insurance discussed and raised to \$6000.

Library donations from W. Thompson, of London; Dr. Patterson, Dr. Jer. Van Rensselaer, and Dr. Dav. Hosack.

Texas: "The Geographical Society of Paris having some time ago requested some information of this Society respecting the Province of Texas, Dr. Mease read a Paper on the subject, which he submits to the Society, as a reply to the Queries of the Society of Paris."

1826. Jan'y 6. Afternoon session. (Present, 14. Du-Ponceau, C. C. Biddle, Hembel, Vaux, Tilghman, Keating, Vaughan, Harlan, Mease, Collin, Patterson, Barton, Dewees, Kane.)

Judges and Clerks were appointed, and balloting proceeded until five o'clock, when the following were declared Officers of the Society:

ELECTION OF OFFICERS.

President-Wm. Tilghman.

Vice-Presidents-DuPonceau, Collins, Patterson.

Secretaries-Walsh, Ord, Keating, Bache.

Councillors-Chapman, Hembel, Hare, C. C. Biddle.

Curators-Say, Mease, Horner.

Treasurer-Vaughan.

[There appears to have been no evening session.]

1826. Jan'y 20. (Present, 14. Tilghman in the Chair; Pedersen and others.)

Investigating Committee reported "that they had invested \$1049.74 in a certificate of the U. S. Exchanged Four and one-half per cent stock of 1824." "The attention of the Com. having been drawn to the character of the securities in

which the funds of the Society are placed, they deem it their duty to suggest the propriety of investing or converting all the funds of the Society, as speedily as possible, into the Funded debt of the United States, the State of Pennsylvania, or the City of Philadelphia."

Treasurer reported increase of Insurance on the Personal property of the Society to \$6000, with \$4000 on the Building in the Insurance Company of North America.

Committee of Finance established: "On motion of Dr. Patterson, it was resolved, that a permanent Committee consisting of three members, to be called the Committee of Finance, be now established, with the following powers and duties:

- "1. To take charge, in conjunction with the Treasurer, of the investment of the Society's monies; and to have the general superintendence and management of the Funds.
 - "2. To report on the Treasurer's accounts, when presented.
- "3. To have access, whenever they may desire it, to all the books, accounts, and other papers of the Treasurer.
- "4. To have power to remit the payment of the amount of the annual dues of members, when they shall judge that the circumstances of the case require it." Com. to be appointed annually on the second meeting in February. The following were then appointed: Clement C. Biddle, R. M. Patterson, George Ord.

Library donations from M. Gräberg di Hemso, of Tangier, M. Pedersen, and the A. S. Phil.

"A new and original invention; by G. W. Long, U. S. Artillery," read by Dr. Harlan, and referred to Patterson, Strickland and Hembel.

Greek Colony planted in East Florida, 1768: Paper read by Dr. Mease, as a reply to some of the Queries of the Geographical Society, Paris.

The Historical Society of Pennsylvania's request to be permitted to examine the Society's original letters, papers and documents relating to country's history, with a view to publication, was referred to the Board.

Building Committee appointed: Strickland, Vaughan, Patterson. \$100 placed at its disposal for expenses of 1826.

To the Librarian: \$100 for periodicals; \$75 for binding; \$150 for current expenses.

J. Vaughan elected Librarian for 1826.

New members elected: Samuel Humphreys, of Philadelphia; Don Pablo de la Llave, Min. Justice, Mexico; Dr. John Lewis Tiarks, of Jever, E. Friesland.

1826. Feb'y 3. (Present, 11. DuPonceau in the Chair; Vaughan, Mease, Pedersen, Morgan, Bache, Colhoun, Harlan, Nichols, Keating, Ord.)

Historical Society's request: Report of the Board presented and adopted, ending thus: "Resolved, That it is not expedient to grant the request of the Historical Society of Pennsylvania." Resolution to be transmitted by the Secretary.

Mr. Humphreys' letter of thanks for election read.

1826. Feb'y 17. (Present, 11. Patterson in the Chair.)

Library donations from persons and societies.

"Dr. Nicholas Collins entertained the Society with remarks upon some Birds, Quadrupeds and phenomena of Nature."

"Mr. DuPonceau read a letter from M. Gräberg di Hemso, of Tripoli, relating to the Languages of sundry tribes of Africa, viz., the Berbers."

Long's paper (read Jan. 20) was allowed to be withdrawn by the author.

Committee appointed "of five persons, severally acquainted with various branches of Literature and Science, to make a list of such books and pamphlets for the Library of the Society as may be specially wanted to render it more useful:" Nichols, Mease, DuPonceau, Harlan, Hembel.

Committee appointed on Rask's letter and papers, sent "sometime ago" to the Society: Collin, Pedersen, Lorick.

1826. March 3. (Present, 13. Patterson in the Chair; Mease, Collin, Vaughan, Hembell, Conrad, Harlan, Strickland, Ord, Kane, Hare, Bache, Keating.)

Draft of report of Committee on Rask's letter and papers read.

Committee of Finance reported organization.

Library donations from two persons and two societies.

Taylor, Sicard & Co., of Alvarado, send an Invoice of case "containing a number of the insect called in Spanish Aje," and "a sample of the preparation from the insect used in Mexico as a paint," with a letter from Col. J. D. Bradburn, of the Mexican Marines, enclosing a treatise in Spanish by Padre Tizan on the subject. Box not yet landed from the ship. Referred to Ord, Vaughan and Collins.

"Proposed method of ascertaining the quadrature of the circle:" Letter from Jacob Peck, Greenville, Tenn. Laid on the table.

Dr. Harlan described the differences "between the European leech, and that used in medicine in the United States."

1826. March 17. (Present, 12. DuPonceau in the Chair; Lorick, Pedersen, and others.)

Committee on Rask's letter reported. Laid on the table. Committee on Tizan's treatise read an English translation of it by Mr. Vaughan. Committee continued.

Library donations from Livingston, Renshaw, Barão de Cavru of Rio, Ed. Coles, Lea, &c.

"Mr. Nichols made a verbal communication on Land Surveying."

1826. April 7. (Present, 12. DuPonceau in the Chair.)

Committee on List of Books required for the Library reported a recommendation to purchase the "Bulletin de la Société d'Encouragement" and "Annales d'Industrie." Adopted.

John Vaughan's Bond: Committee of Finance report that Mr. Vaughan would pay off his Bond for \$2000, due the Society. Ordered, that the Secretary "affix the common seal of the Society to the assignment of said Bond to such person as Mr. Vaughan shall name, upon being informed by the Committee of Finance that said Bond has been duly paid."

Library donations from two persons and two societies.

"On the heat evolved by different kinds of fuel," by Marcus Bull, read by Dr. Patterson; with diagrams. Referred to Patterson, Coates, Bache. The author permitted meanwhile to publish it, if so disposed.

1826. April 21. (Present, 23. DuPonceau in the Chair; Haines, Eberle, Short, Conrad, Jackson and others.)

Committee on Marcus Bull's paper on Heat of fuels, rereported in favor of its publication in the Transactions. Adopted.

Library donations from Aloysio Colla, of Turin; Henrich von Struve, of Hamburg; Stephano Borson, of Turin, and others.

Romanzoff's Death: Dr. Mease offered the following resolution, which was unanimously adopted:

"The American Philosophical Society having been informed of the death of their illustrious associate, Count Nicholas de Romanzoff; and deeply impressed with the feelings which such a loss is calculated to excite in all the lovers of science, and particularly in this Society, to which he was zealously attached, of which attachment he gave them repeated proofs while he lived, and acquired a well-merited right to their gratitude; therefore,

"Resolved, That the Secretary write a letter to Baron de Maltitz, Chargé des Aflaires of his Im. & R. majesty, the Emperor of Russia & King of Poland near the United States, expressive of the deep regret of this Society for the loss which they, in common with the scientific world, have sustained, by the death of Count Romanzoff; & requesting him to convey the expression thereof to the family of the illustrious deceased."

Committee on Rask's letter: Report called up-

"Resolved, That the Society subscribe to one copy of Mr. Raffin's [sic] proposed publication in the Latin language."

Transactions to issue in numbers: "Dr. Patterson offered the following resolution which was adopted:

"Resolved, That it is expedient to carry into effect the resolution of . . . May 7, 1824, viz. That hereafter the Transactions be published in numbers, so that the publication shall keep pace as nearly as possible with the communication of the papers.

Publication Committee organized:

"Resolved, That a Standing Committee of three members, to be termed 'The Committee of Publication' be now appointed (and to be hereafter appointed at the second meeting in January, annually,) with the following powers and duties:-1. To superintend the printing & publishing of the Society's Transactions; -2. To receive subscriptions for these volumes; with an understanding that they may be delivered in numbers, to be published at such intervals, and to be of such size, as the Committee may judge convenient; & to be paid on delivery, at a price proportioned to the number of pages, which price is to be determined by the Committee and stated in the proposals;—3. To call on the Librarian for his assistance in the performance of their duties ;-4. To receive all the payments made for the numbers, & to attend to their collection; to pay from the funds so received, or which may be from time to time appropriated for the purpose by the Society, all the expenses attending the publication: to keep regular & separate accounts of such receipts & expenditures; & to make a report of all their proceedings at the first meeting in December annually, or more frequently, if required."

First Committee of Publication chosen: Patterson, Ord, Bache.

New members elected: Charles D. Meigs, M.D., of Philadelphia: William McIlvaine, of Philadelphia; Jacopo Gråberg di Hemso, of Sweden.

1826. May 5. (Present, 16. DuPonceau in the Chair; Vaughan, Humbel, James, Bonaparte, Patterson, Nichols, Mease, Harlan, Conrad, Coates, Godman, Morgan, Ord, Dewees, Bache.)

Library donations from six persons and one society.

Transactions III, No. 1, Bull on Fuel, reported printed by the Publication Committee.

Reply of Baron Maltitz read.

John Vaughan's private library of books, deposited in the

Society's Library costing \$202.05. Mr. Ord's motion to purchase it passed.

Poppel's map of the British Colonies in America offered for sale to the Society by Mr. Rivinus; referred to Vaughan Ord and DuPonceau.

Zeisberger's Grammar, translated, referred to a special committee at the meeting of ————, was now referred to the Publication Committee, "with the liberty of printing it in the next volume of Transactions, should they judge it expedient."

1826. May 19. (Present, 16. DuPonceau in the Chair; McIlvaine, Humphreys, and others.)

Transactions, Vol. II, No. 1, presented; also, "a printed prospectus for obtaining subscriptions."

Library donations from Featherstonehaugh and da Silva. Mason & Dixon's line: "Dr. Mease deposited with the Society several very interesting maps, of early date, of the division lines between Pennsylvania, Delaware and Maryland, accompanied by some explanatory notes." Referred to the Historical Committee.

M^{r.} Lisboa and Dr. Meigs acknowledged the honor of membership.

"Dr. Mease communicated a letter written by Captain Mussey, describing a successful waling [sic] voyage, performed in 1803."

1826. June 16. (Present, 10. Dr. Collin in the Chair; Vaughan, Harlan, Meigs, Barnwell, Coates, Nichols, Ord, Godman, Bache.)

Poppel's map, Committee reported against its purchase, "at the price."

Library donations from Lambert, DeKay, Bonaparte, Darlington, Worcester and two societies.

Cabinet donation from Midshipman Deas, U. S. N.

Transactions, "last volume," receipt acknowledged by two London societies. Mr. Small's offer to sell all remaining copies of Vols. I, II, referred to Finance Committee.

1826. July 8.* (Present, 17. DuPonceau in the Chair; Patterson, Vaughan, Lorick, Harlan, Hare, Meredith, Beasley, Chapman, Vaux, Ingersoll, C. C. Biddle, Horner, Godman, Sergeant, Walsh, Bache.)

Jefferson's Death: "Dr. Patterson, having stated the object of the meeting to be the adoption of such measures as may be proper, on occasion of the death of Thomas Jefferson, former President of this Society, proposed the following Resolutions, which were unanimously adopted:

Resolved, That this Society, in common with the American Nation, and the whole learned world, is impressed with the deepest regret for the loss of their late illustrious associate and former President, Thomas Jefferson.

Resolved, That the President's chair, which for a great number of years he so honorably filled, be clothed in black for the space of six months.

Resolved, That, according to the ancient usage of this Society in relation to their deceased presidents, a public discourse in commemoration of Thomas Jefferson be delivered by a member, to be appointed for that purpose.

Resolved, That a letter expressive of the feelings of this Society on this mournful occasion be addressed to the family of Thomas Jefferson, and sent to them, together with a certified copy of these proceedings. That the said letter be signed by the officer presiding at this meeting, and by the now acting Secretary.

Resolved, That a letter be written in like manner, to the Royal Academy of Inscriptions and Belles Lettres, at Paris, of which Thomas Jefferson was a member, informing them of the death of their illustrious associate, and expressing at the same time, the regret of this Society for his loss."

Death of John Adams: Dr. Chapman then proposed the following Resolutions, which were unanimously adopted:

Resolved, That this Society, in common with the American nation, feel the most profound regret for the loss of their illustrious associate, John Adams, whose talents, virtues, and patriotism contributed in a great de-

^{*} Evidently a special meeting to take action on the deaths of Jefferson and Adams.

gree to secure to our country the blessings of liberty and independence, and in trying times to obtain for it the aid and friendship of foreign nations.

Resolved, That a letter, expressive of the feelings of this Society on this mournful occasion, be addressed to the family of John Adams, and sent to them, together with a certified copy of these proceedings. That the said letter be signed by the officer presiding at this meeting, and by the now acting Secretary.

Resolved, That a similar letter be addressed to the American Academy of Arts and Sciences at Boston, expressive of our regret for this common loss.

"On motion of Dr. Chapman, it was

- $^{\prime\prime}$ Resolved, That the Society enter immediately upon the election of an Orator.
 - "Whereupon Nicholas Biddle, Esq., was chosen."

A Committee of three, Chapman, Vaughan and Bache, were appointed to apply to the family of Jefferson "for such documents and other information as may be needed by the orator in the preparation of his discourse."

Proceedings of this meeting ordered to be published.

1826. July 21. (Present, 11. DuPonceau in the Chair; Vaughan, Nicholls, Mease, Hembell, Lorick, Meigs, Moore, Patterson, Strickland, Bache.)

Committee on Jefferson's death reported that an answer to their request had been received from Mr. Thomas J. Randolph.

Library donations from six persons and three Societies.

1826. Aug. 18. (Present, 11. DuPonceau in the Chair; Vaughan, Hare, Mease, Nicholls, Moore, Meigs, Long, Collin, Kane, Harlan.)

John Adams' Death: "The Committee appointed to write letters of condolence on the subject of the death of John Adams to the family of the deceased & to the American Academy of Arts & Sciences at Boston, reported replies from Mr. President Adams & from that Society... respectively."

Library donations from José F. F. Pinheiro, of Brazil; Count Lanjuinais, of Paris; J. J. Barrozo de Pereira, and a dozen other persons and societies.

Cabinet donation from the corporation of New York City. Captain Barron's patent carrying and lifting trunk dock for repairing ships was verbally described by Mr. Vaughan.

1826. Sept. 15. (Present, 11. Patterson in the Chair.)

Library donations from four sources.

"Table to compute the Moon's horizontal parallax," &c., by Wm. Lambert, of Washington, was communicated by S. L. Southward, Sec. U. S. N., and referred to Moore, Patterson and Nulty.*

Transactions American Philosophical Society, "late volumes" received by the Geographical Society, Paris.

"Dr. Collin made some verbal remarks" on Peaches and Plums.

C. W. Peale's request to have the skeleton of the Elephant presented to the Society by the Asiatic Society of Bengal, was granted on the following conditions:

First—That the bones be joined together, at his cost, in a substantial and proper manner, under the superintendence of the curators of this Society, so as to form an entire skeleton.

Secondly—That, when exhibited, a label be attached to it, stating, that it was presented to the American Philosophical Society, by the Asiatic Society of Bengal; and was by the former deposited in the Philadelphia Museum.

Thirdly—That it may be reclaimed by the Society at any time after three years from its first exhibition.

Fourthly—that if the skeleton be not mounted within one year from this date, the bones may be reclaimed by the Society, and the agreement made void.

M. Rafn, Secretary Society Antiquaries, Copenhagen, to be informed of the Society's subscription to one copy of his proposed publication in Latin.

 $^{^{\}bullet}$ Mr. Nulty's name does not appear in the records of members present at meetings in 1825, 1826.

1826. Oct. 6. (Present, 14. DuPonceau in the Chair; Major Ware, Pollok, Tidyman, and others.)

C. W. Peale accepts the Society's conditions. (See last meeting.)

Library donations from ten sources.

On the ancient languages of America; communicated by $M^{r_{\text{-}}}$ Rafinesque, and referred to the Historical Committee.

Count Laval, of Russia returns thanks for membership. Silk Culture: Committee appointed to consider the subject: Mease, Vaux, Kane.

1826. Oct. 20. (Present, 15. Patterson in the Chair; Strickland, Kane, Bonaparte, and others.)

Silk Culture Committee reported progress.

Library donations from three sources.

Jefferson: A letter from James Brown, Minister at Paris, informed the Society that he had transmitted its communication to M. Dacier, Secretary Academy Inscriptions and Belles Lettres, Paris; and enclosed a copy of M. Dacier's reply to his letter; and a letter from M. Dacier to the President American Philosophical Society "offering the condolence of the R. Acad. Inscr. & B. L. on the melancholy event," &c.

"On the Hermaphrodite Orang-outang which recently died in Philadelphia." Dr. Harlan described the animal which he had dissected.

New members elected: Mr. Henry de Struvé, Councillor of State, Russia; General Lewis Cass, Governor United States Territory, Michigan; Wm. Shaler, Esq., Consul General United States at Algiers.

1826. Nov. 3. (Present, 12. Duponceau; Conrad, Dewees, Morgan, and others.)

Silk Culture Committee report accepted; resolution postponed.

Library donations from four persons.

Cabinet donations from Mr. John Bacon and the Franklin Institute.

1826. Nov. 17. (Present, 12. Collins in the Chair.)

Library donations from eight sources.

Silk Culture Committee's Resolution again postponed.

1826. Dec. 1. (Present, 12. DuPonceau; Collin, Hall, Mease, Vaughan, Hembel, Nichols, Meigs, Bache, Barnwell, Collins, Ord.)

Finance Committee reported (verbally) the Treasurer's accounts correct: Balance on general account \$136.94; "the whole of the Magellanic & Rittenhouse funds having been invested, there is no balance in these accounts." "The Treasurer stated that his accounts had been transcribed & were lying on the table." He "exhibited a detailed account of the situation of the Magellanic, Extra Magellanic & Rittenhouse Funds."

Library donations from three Academies, and G. Fischer de Waldheim.

Silk Culture Committee's Resolution was discussed and adopted, recommending "the appointment of a Committee to prepare an Address to the Public urging the planting of White Mulberry trees, extensively, & the breeding of Silkworms, by the people of the U. S."

Mr. Vaughan gave notice he would move for an appropriation of money to buy enough copies of the current Vol. Transactions American Philosophical Society to supply foreign and domestic corresponding societies.

Annual Meeting Card: "On motion of Mr. Ord the Treasurer was instructed to have the Stated Meetings of the Society printed upon a card for the use of the members.

Letter of Information to New Members, announcing their election. Engraving of such a copperplate form ordered.

Byrd's Line. The original MS. was exhibited by Dr. Mease, "containing the History of the Dividing Line be-

tween North Carolina and Virginia, by Colonel Byrd, of Westover, Va."

1826. Dec. 15. (Present, 13. Tilghman in the Chair.)

Finance Committee reported verbally on the condition of the funds.

Library donation from the Charleston Library Company. Cabinet donation from Mr. Baker.

Dr. Collin spoke on the Effect of the Weather on the Human Constitution; and on Eating.

Mr. Vaughan's promised Resolution to buy copies of Transactions American Philosophical Society for other Societies was, after discussion, postponed.

No applications for Magellanic or Extra Magellanic premium.

Election Day-Evening Meeting:

Some doubts having been expressed, with respect to the necessity of holding an Ordinary meeting of the Society, on the evening of the first Friday in January, the day whereon the third article of the twelve Fundamental Laws declares that the annual election of Officers shall be held; Chief Justice Tilghman, to whom the question was referred, decided, that, in conformity with article ninth of the said Fundamental Laws, an Ordinary meeting ought to be held on the evening of the day above mentioned; and it was consequently resolved, that the Society should henceforward, assemble in accordance with this decision.

1827. Jan'y 5. (Present, 8. Tilghman in the Chair; DuPonceau, Vaughan, Meigs, Patterson, Mease, Coates, Ord.) Election returns reported, thus: Electors present: Collin, Ord, Patterson, Collins, Bache, Vaux, Vaughan, DuPonceau, Mease, Harlan, Meigs, Hembel, Kane, Tilghman, Persons duly elected.

ELECTION OF OFFICERS.

President—Tilghman.
Vice-Presidents—DuPonceau, Collins, Patterson.
Secreturies—Ord, Keating, Fr. Bache, C. C. Biddle.

Councillors—Meredith, Collin, Wm. Maclure, R. Walsh, Jr.

Curators—Say, Mease, Horner.

Treasurer-Vaughan.

Library donations from five persons.

Pelham's Map of Boston, 1775-'6 was deposited by Dr. E. Hudson.

Magellanic Premium. Resolution adopted by the Board of Officers at its last meeting, December 22.

"Resolved, That it be stated to the Society as the opinion of this Board that it is consistent with the terms of the Magellanic Donation, and is therefore in the power of the Society to make any such appropriation of the Surplus Magellanic Fund as they may judge most likely to serve the objects of the Institution; and that it be recommended to the Society to make such an appropriation for the purpose of aiding in the publication of their Transactions." This resolution to be inserted in the minutes and to be "acted upon at some future day."

"A table to compute the Moon's correct motion for 12 hours in long., lat., right asc., & dec. by interpolation from successive differences, extended to the fourth order, & to every 5 minutes of intermediate time between noon & midnight or midnight & noon," by Wm. Lambert, of Washington, was communicated and referred to Patterson, Moore and Nulty.

Dr. Patterson made some remarks on the explosion of gunpowder by the electric spark.

1827. Jan'y 19. (Present, 14. Patterson in the Chair.)

Library donations from Richard Bache, of West Point, Schumacher, of Copenhagen, and other sources.

Cabinet donation from Dr. James Mease.

"Some brief notes respecting the Territory of Arkansas & the late Possessors & Occupants of the greater part of that Country" were received with a letter from Governor Geo. Izard. Referred to DuPonceau, Mease, Harland. Governor Izard had sent a small collection of specimens to New Orleans for shipment to the Society's cabinet.

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Two MSS. of Arthur Lee were received from Richard Henry Lee, "giving an account of the proceedings before the Criminal Judge, of the government of Prussia, in relation to the Robbery of Doctor Lee's official papers, while minister at the Prussian court, in the time of Frederick the Great." Referred to the Historical Committee.

Transactions American Philosophical Society III, i, re-

ceived by the Geographical Society, Paris.

Gilbert's Annals: Letter from Mr. Barth, of Leipsig, offering to exchange them for Transactions American Philosophical Society. Accepted.

The Standing Committees were continued for 1827:

Building Committee: Strickland, Vaughan, Patterson.

Finance Committee: C. C. Biddle, Patterson, Ord.

Publication Committee: Patterson, Ord, Bache.

Appropriations for 1827: Building, \$150; Periodicals, \$200; Binding, \$75; Current Expenses, \$150.

Librarian chosen for 1827, John Vaughan.

New members elected: Mr. Honoré Torombert, of Lyons, France; Mr. Joel R. Poinsett, of Charleston, South Carolina; Dr. René La Roche, of Philadelphia.

1827. Feb'y 2. (Present, 11. DuPonceau in the Chair; Patterson, Mease, Harlan, Kane, Vaux, Vaughan, LaRoche, Nichols, Meigs, Ord.)

Committee on the paper by Izard reported progress.

Library donations from LaRoche, Meigs, Geo. Vaux, Job R. Tyson, Dr. W. C. Daniell, of Savannah, and the Society of Arts, London.

Transactions American Philosophical Society III, i, received by Linnsean Society, London, and II by the Bath and West of England Society.

"Some account of the *Menomonies*, with a specimen of an attempt to form a Dictionary of their Language," by Edwin James, M.D., U. S. A., was read and referred to Meigs, Du-Ponceau, Mease.

Form of announcement to new members reported and approved.

1827. Feb'y 16. (Present, 15. DuPonceau in the Chair; Vaughan, Harlan, Nichols, Mease, Patterson, Kane, Bache, Moore, Meredith, Meigs, Conrad, Coates, Hare, Ord.)

Magellanic premium: Report of Board with resolutions, adopted:

Resolved, That the Ground rent reserved and payable out of certain Lots, at the Northeast corner of Mulberry and Eighth streets, originally purchased by the society for Nine hundred and ninety-four dollars, and yielding an annual income (exclusive of taxes) of Eighty-nine dollars and sixty cents, and this investment alone, be retained and appropriated for the Magellanic Premium Fund.

Resolved, That any number of Premiums more than two, which now remain, or shall at any time hereafter remains, unawarded, may be distributed under the terms of the Surplus Magellanic Premium, as now established.

Resolved, That all the monies which have accumulated upon the Magellanic donation, or which may hereafter arise from this source, except the Ground-rent reserved by the first resolution, shall constitute a Fund, to be called the Magellanic Publication Fund, the whole Interest of which (but no part of the principal) shall be appropriated to assist in the publication of the Society's Transactions, under the charge and direction of the committee of publication; provided, that this fund shall be at all times liable for the Magellanic or surplus Magellanic Premium, reserved as above, should those be claimed and awarded.

Library donations from four persons and three societies. Cabinet donation of fossil shells from Virginia, from J. Finch.

Lasteyrie's death: "The presiding officer, having announced to the Society the death of a distinguished foreign member, Count Lasteyrie, son-in-law to General La Fayette; it was

"Resolved, That the Secretary be instructed to write a letter to General La Fayette, expressive of regret for the loss which science has sustained in the death of Count Lasteyrie and to request the former to convey to the family of the latter the condolence of the Society on the occasion of his decease."

- 1827. Feb'y 23. Special Meeting. (Present, 10. Du-Ponceau, Patterson, Collins, Hembell, Mease, Vaughan, Short, LaRoche, Aarlan, Ord.)
- "The Society having heard, with deep regret, of the death of their venerable associate, Charles Wilson Peale, it was
- "Resolved, That the members assemble at his late residence, on Sunday next, at 12 o'clock, for the purpose of attending his funeral."
 - "Resolved, That a letter be addressed to the family," &c.
- "Resolved, That the first of the above resolutions be published in the newspapers of to-morrow."
- 1827. March 2. (Present, 17. DuPonceau in the Chair; LaRoche, Morgan, Izard, Hall, Rawle, Hopkinson, and others.)

Library donations were received from twelve persons and three societies.

Zeisberger's Grammar of the Delaware language: Mr. Du-Ponceau read the first part of his preface to his translation now in press for the Transactions American Philosophical Society, Vol. III. Referred to the Committee of Publication to take order.

Transactions III, i, acknowledged by the Astronomical and Royal Societies, London.

Governor Lewis Cass returned thanks for membership.

1827. March 16. (Present, 17. Patterson in the Chair.)

Library donations from three persons and one society. Cabinet donations from W. Lewis and Dr. Mease.

Dr. Horner read Dr. J. Rhea Barton's printed paper on the Treatment of Anchylosis, to be published in the North American Medical and Surgical Journal.

Mr. DuPonceau read the rest of his Preface to Zeisberger. Nicholas Biddle having accepted the appointment to deliver the oration on Jefferson, it was

[&]quot;Resolved, That the Committee of July 8, 1826, should arrange with him with respect to the public delivery of the Eulogium."

Chapman, Vaughan, Bache, appointed such Committee.

Historical Documents:

"Resolved, That a Committee be appointed to address a memorial to the Legislature of Pa. requesting them to grant this society the sum of \$500 to enable it to print the Historical Documents in its possession."

Mease, Moore, Kane. Memorial to be subscribed by the President and Secretary.

1827. April 6. (Present, 14. DuPonceau in the Chair.)

Eulogium Committee reported Wednesday April 11, noon, as the time, and Dr. Chapman's lecture room in the University as the place appointed.

Library donations from six persons and three societies.

1827. April 13. Special Meeting. (Present, 8. DuPonceau; Vaughan, La Roche, Coates, Lorick, Collin, Moore, Ord.)

Thanks voted to Mr. N. Biddle, "for the able manner in which he performed the duty which they had assigned him in pronouncing the Eulogium on their former President, Thomas Jefferson." Copy requested for publication. Publication Committee instructed to take order.

1827. April 20. (Present, 28. Patterson in the Chair; DuPonceau, Collin, Nichols, Godman, Lorick, Colhoun, Kane, Jackson, Major Ware, Coates, C. C. Biddle, Horner, Hare, Vaughan, Harlan, Bache, Meigs, Mr. J. E. Hall, La Roche, Dr. Drake, Hembel, Chapman, Moore, Mease, McIlvaine, N. Biddle, Ord.)

Library donations from Lyceum Natural History, New York, and Prof. C. C. Rafn.

Cabinet donation of specimens of Amber from the deep cut of the Chesapeake and Delaware Canal, from S. N. Dexter.

A letter, book and pamphlets from Prof. Rafn were "re-

ferred to Major Lorick, with a request to give the Society some information thereon."

Dr. J. D. Godman would present at the next meeting a memoir relative to a new Fossil Animal allied to Megalosaurus and Ichthyosaurus," &c., for which he proposed the name of Megistosaurus ensiformis. [See Dr. Harlan's assertion that it was a common Sperm whale, Minutes of July 20, 1827, and January 18, 1828.]

New members elected: John Price Wetherill, of Philadelphia; George Emlen, of Philadelphia; Judge Tait, of Alabama; Marcus Bull, of Philadelphia; John Wilhelm Dalman, M.D., of Stockholm; Dr. Zecchinelli, of Padua.

1827. April 30. Special Meeting. (Present, 13. DuPonceau; Vaughan, Bache, Chapman, Harris, Moore, Hare, Ord, Ware, Meigs, Wetherill, Bancker, C. C. Biddle.)

Tilghman's death: "Dr. Chapman having stated the object of the meeting to be the adoption of such measures as may be proper, on occasion of the death of the Honorable William Tilghman, late President of this Society, proposed the following resolutions, which were unanimously adopted:

"The Society being desirous of testifying their deep regret for the loss of their President the Honorable William Tilghman, resolve:

That the members shall assemble at their Hall, on Wednesday next, at 4 o'clock P. M., in order to attend the funeral, in a body.

That the president's chair be shrouded in black during six months.

That according to the ancient usage of this society, in relation to their deceased presidents, a public discourse, in commemoration of Chief Justice Tilghman, be delivered by a member, to be appointed for that purpose.

That a letter, expressive of the feelings of this society on this mournful occasion, be addressed to the family of the Honourable William Tlighman, and sent to them, together with a certified copy of these proceedings; and that the said letter be signed by the Officer presiding, and by the now acting Secretary."

Peter S. DuPonceau was then nominated Orator; proceedings of the meeting to be published in the newspapers.

1827. May 4. (Present, 18. Patterson in the Chair; Judge Tait, Major Lorick, and others.)

Major Lorick reported "an account of the principal contents of Prof. Rafn's books & pamphlet." Ordered to be deposited in the archives.

Mr. Vaughan reported the transmission of resolutions of condolence to the family of Judge Tilghman, &c.

Library donation from six persons and five societies.

Cabinet donation from Dr. La Roche.

Transactions American Philosophical Society, Vol. III, acknowledged by Asiatic Society, Paris.

Thanks for membership from Dr. Tiarks and Judge Tait.

Mr. Bancker stated, verbally, that Dr. Godman left this city yesterday on his way to New Orleans, for the purpose of procuring a fuller & more detailed account of the *Fossil bones* which he announced at the last meeting."

Duponceau chosen (on ballot) Orator for Judge Tilghman's Eulogy.

1827. May 18. (Present, 15. DuPonceau in the Chair.)

Library donations from four persons and two societies.

1827. June 15. (Present, 9. DuPonceau; Vaughan, Vaux, Moore, Colhoun, Meigs, Mease, Hembel, Bache.)

Library donations from President Madison, Attorney-General Wirt, &c.

Cabinet donation: *Medal* struck to commemorate the *Grand Canal Celebration* from the corporation of the city of New York.

"On a Cypress tree, of immense size, growing near the city of Oaxaca, Mexico," letter from Joel R. Poinsett, "now in Mexico," "with a cord [] feet along, representing its exact circumference."

1827. July 20. (Present, 13. Patterson in the Chair; DuPonceau, and others.)

Library donations from J. Adamson and Count de Lillers. Letter from Rev. Th. Hartwell Horne, respecting his printed Catalogue of the Library of Queen's College, Cambridge, England.

"Resolved, That the thanks of the Society be presented to the Revd. Mr. Horne for his obliging intention; & that two copies of the Catalogue of our Library be forwarded to him," one for himself and one for the Library.

Dr. Harlan spoke of Dr. Godman's animal as in his opinion belonging to the Whale family (cf. Jan. 18, 1828).

New members elected: J. P. C. Cassado de Giraldes, of Lisbon; James Rush, M.D., of Philadelphia; John K. Mitchell, M.D., of Philadelphia; James Brown, Minister Plenipotentiary United States at Paris.

1827. Aug. 17. (Present, 15. DuPonceau in the Chair; Dr. Mitchell, and others.)

Library donations from four persons and two societies.

Dr. Rush tendered in one letter, his acknowledgments, for the honor, and in another, his resignation of membership, which was accepted.

A letter on Portuguese Geography was received from M. Giraldes.

The medical properties of Ginseng. Dr. Mease read a letter from Rev. Mr. Morrison, of Canton, recounting the opinions of the Chinese.

Notes "intended to direct Mr. Poinsett in his inquiries in relation to the structure of the Indian Languages of Mexico, were read by Mr. DuPonceau.

Mr. DuPonceau also read a Supplement to his observations on the Grammar of the Delaware Language. Referred to Publication Committee with power.

1827. Sept. 21. (Present, 14. Mr. Collins in the Chair.) . Library donations from five London societies, 2 institutions and 11 private persons.

Transactions American Philosophical Society, II, No. 2 (Delaware Indian Grammar), reported "completed" by the Publication Committee, and a printed copy laid on the table.

Baron Struvé's acknowledgments received.

J. Bywater's (of Liverpool), communication on some Physical phenomena, was referred to Patterson, Bache, Hembel.

1827. Oct. 5. (Present, 12. Patterson in the Chair; Du Ponceau, Hembel, Harlan, Moore, Hopkinson, Vaughan, Nichols, Ord, Chapman, Meigs, Bache.)

Committee report on Bywater's paper, adopted.

Library donations from six persons, and the French Academy.

Eulogy on Tilghman fixed for noon, October 11, in Dr. Chapman's lecture room in the University, and a Committee of Management appointed: Vaughan, Chapman, Hopkinson.

1827. Oct. 12. Special Meeting. (Present, Mr. Wm. Jones in the Chair; Nichols, Moore, Vaughan, Chapman and Ord.)

Thanks voted to Mr. DuPonceau for his Eulogium; copy requested; Publication Committee instructed to take order for its publication.

1827. Oct. 19. (Present, 19. DuPonceau in the Chair; C. Bonaparte, J. P. Wetherill, Dr. Mitchell, Kane, Lukens, and others.)

DuPonceau's Eulogium printed and "ready for distribution to-morrow."

Library donations from Mr. Turpin, Mr. Jomard, M. Balbi, and Mr. Warden, of Paris, Prof. Thunberg, of Upsal, Mr. DuPonceau, and the Berlin Academy. Several Vols. Transactions to complete the set. "For this it seems the

Society is indebted to the liberality & attention of the Minister of the Interior of Prussia, Baron Schuckmann," to whom therefore a copy of the Transactions American Philosophical Society was to be sent "as a testimonial of respect for his beneficial exertions in behalf of science."

"On the geographical distribution of plants," by Ch. Pickering, M.D., read, and referred to Harlan, Collins, Mease.

Tilghman's bequest: "Mr. Vaughan read to the Society the following letter:"

"To Peter S. DuPonceau
Zaccheus Collins
Robert M. Patterson

Esquires

Vice Presidents of the Am. Phil. Society.

GENTLEMEN,

As Executors of the last Will and Testament of the late Chief Justice Tilghman, we have the honor to enclose you the sum of Two Hundred Dollars; being the amount of his Bequest to your highly respected society.

In executing this part of the Will of our deceased and venerated friend, we cannot avoid experiencing a high gratification; for while we, in common with all who had the pleasure of his acquaintance, must ever deeply deplore the loss of so estimable a character, we are nevertheless happy in the opportunity afforded us of conveying to you this small token of his regard and consideration.

As such, we now transmit it to 'The American Philosophical Society, held at Philadelphia, for Promoting Useful Knowledge,' in the name, and by the directions, of the Honourable William Tilghman, the Testator.

We have the honor to be, with every sentiment of respect,

Your most obed. Servts.

B. CHEW, JR. E. S. BURD."

Philad'a, 8th Octr, 1827.

After reading the foregoing letter, Mr. Collins offered the following resolution, which was adopted:

Resolved, That the Society gratefully receive and record the Bequest of their late venerated and lamented President; and that the senior Vice President be requested to acknowledge its receipt, and to communicate to the Executors the great satisfaction with which the Society view this memorial of the Testator's regard; together with a copy of this resolution.

New members elected: Noah Webster, LL.D., of New Haven, Conn.

1827. Nov. 2. (Present, 15. Mr. Collins in the Chair; Dr. Brown, Raguet, Mr. Gilpin and others.)

Library donations from Bonaparte, Webster, Everett, Reed, Carey and Lea.

"On eleven new species of insects," by N. M. Hentz, re-

ferred to Harlan, Mease, Collin.

"On six new species of Unio," by Isaac Lea, referred to Collins, Harlan, Coates.

Answer reported sent to Tilghman's Executors.

"A more particular account of the gigantic Cypress," near Oaxaca in a letter from Mr. Poinsett, was read. (See June, 1827.)

"Original letter from Ch. Thompson [sic] to John Langdon, Prest. of Congress pro tem., giving an account of his interview with Gen. Washington, at Mount Vernon, when sent to announce to the general his unanimous election to the office of President of the U. S.;" also, "a copy of Gen. Washington's answer to Mr. Thompson;" communicated by Dr. Mease.

Dr. Harlan described some rattlesnakes on exhibition.

Copies of the Catalogue to be given to the Hospital and Almshouse libraries.

Appropriation of \$200 "to be paid out of such funds as are not otherwise appropriated" to enable the Publication Committee to pay the unsettled balance of the expense of publishing the half volume of Transactions American Philosophical Society, III, just completed.

"Resolved, That the legacy of \$200 from the late venerable president of the Society be added to the publication fund, and that the interest thereof, as it accrues, be put at the disposal of the Pub. Com. to assist in the expense of printing the Society's Transactions."

1827. Nov. 16. (Present, 15. Patterson in the Chair; Adrain, and others.)

Committee on Hentz's paper reported in favor of publication.

Library donations from Adelung, Rivinus, and Dr. Emerson, of Philadelphia.

Noah Webster acknowledged the honor of membership.

1827. Dec. 7. (Present, 17. DuPonceau in the Chair; Adrain, Brown, Ware, Vanuxem, and others.)

Committee on Lee's paper reported in favor of publication. Committee on Pickering's paper reported in favor of publication.

Finance Committee reported the Treasurer's accounts correct.

Library donations from five sources.

"On human bones found on the coast of Brazil," by Dr. Meigs; referred to Patterson, Brown, Ware.

A copy of DuPonceau's Grammar acknowledged by Jas. Barbour, Secretary of War, United States.

Minister Brown in Paris returned thanks for membership. Colonel Giraldes' letter of thanks for membership.

Mr. W. H. Keating's letter from the Mines of San José, Mexico, communicated his resignation as one of the Secretaries of the Society.

Memorial Committee reported a draught of memorial for the Legislature (see p. 565) of which "was referred to the Historical Com. to report their progress to the Society especially to lay before it a list of the documents they have collected."

1827. Dec. 21. (Present, 19. Collins in the Chair; Du-Ponceau, Vaughan, Moore, Lorick, Wetherill, Meigs, Adrain, Ord, Lukens, Patterson, Nichols, Hembel, Mitchell, Harlan, Brown, Mease, Ware, Bache.)

Committee on Meigs' paper reported it for publication.

Historical Committee reported an amended draught of the Memorial, and a List of Documents in their possession:

"The Memorial having been considered & amended, it was

[&]quot;Resolved, That the same, with the amendments now adopted by the Society, & with such further alterations, not materially affecting its gen-

eral aim, as the Vice-Presidents & Secretaries may think proper to make, be signed by these officers, & that the Hist. Com. be instructed to have it forwarded to the Legislature.

1828.

"Resolved, That if the said Memorial shall be successful, the money which may be obtained in consequence thereof, shall be exclusively applied to the use & purposes of the Com. of History, the Moral Sciences and General Literature."

Finance Committee made a detailed statement of the revenue of the Society, amounting, for 1827, to \$1558.88.

Library donations from four persons.

New York Custom House: "Mr. DuPonceau, having stated a case of vexatious detention of a package of books, at the Custom House at New York, intended for the Society, it was

"Resolved, That Mr. DuPonceau be authorized to address the Secretary of the Treasury on the subject."

1828. Jan'y 4. (Present, 16. DuPonceau in the Chair; Vaughan, Ord, Harlan, Hembel, Wetherill, Lukens, Nichols, Mease, Meigs, Mitchell, Kane, Patterson, Horner, Vaux, Bache.)

Annual election (by 19 members); the report of the Judges and Clerks, read:

ANNUAL ELECTION OF OFFICERS.

President—Peter S. DuPonceau.

Vice-Presidents—Zaccheus Collins, R. M. Patterson, Nathaniel Chapman.

Secretaries—Franklin Bache, C. C. Biddle, J. K. Kane, Ch. D. Meigs.

Councillors for three years—John Q. Adams, John Sergeant, Wm. Short, Samuel Moore.

Councillor for one year-Robert Adrain.

Curators—James Mease, Wm. E. Horner, John P. Wetherill.

Treasurer-John Vaughan.

"Dr. Patterson on behalf of the Judges read a letter

which they had addressed to Mr. DuPonceau, announcing his election to the office of President; and Mr. DuPonceau's reply."

Historical Committee reported forwarding the Memorial.

Dr. Meigs offered his resignation as Secretary, accepted.

Geo. Ord was then unanimously elected in his place.

Library donations from five academies, &c., and from Dr. Zollickoffer, of Baltimore, Bishop White, Jos. Von. Hammer, and Jules Klaproth.

Cabinet donation: Centennial Medal of the Imperial Academy, Russia.

J. Von Hammer's letter from Vienna, with a copy of his "Les Mines de l'Orient," elicited the following resolution:

The Society having received from Count Wencèslaus Rzewusky, through Mr. Counsellor of State Von Hammer, a complete set, in six Volumes folio, of the justly celebrated Journal of Asiatic Literature, published at Vienna, under that nobleman's auspices, and entitled "Les Mines de L'Orient." and being desirous of expressing their gratitude for this valuable gift;—

Resolved, That the President address a letter, in the name of the Society, to Count Wencèslaus Rzewusky, conveying to him their thanks for this valuable donation, and their sense of the great benefit and advantage, which science has derived from that important and highly useful work, and expressing at the same time their regret, that it has been discontinued, and their hopes that it may again be revived under his high patronage; and that the President also transmit to the Count, an official copy of this resolution.

Klaproth's request "to have a copy taken from a MS. in the Society's Library, entitled a Journal of Travels in Russia by Count Potocki," was referred to the Historical Committee with power to act.

"On the motions of a body on a surface of any form," by Dr. H. James Anderson, of New York, was referred to Patterson, Adrain and Nulty.

Resignation of Rev. Dr. Jas. P. Wilson, read and accepted.

1828. Jan'y 18. (Present, 31. DuPonceau; Collins, Biddle, Meigs, Harlan, Dewees, Patterson, Coates, B. R. Mor-

gan, T. Gilpin, Horner, Vaughan, Collin, Wetherill, Brown, Adrain, Bache, Mitchell, Mease, James, Hembel, Kane, Eberle, Lukens, Vaux, Ord.)

Committee on Dr. Edwin James' paper reported it worthy of publication, "but for sundry reasons" offered a resolution, which was adopted, that it be referred to the Publishing Committee with power "either to publish it themselves in a future volume, or hand it over to the Hist. Com. for publication."

Committee on Izard's letter of January 10, 1827, reported, with a similar resolution, which was adopted.

Committee on Anderson's paper reported it for publication in the Transactions.

Library donations from Enoch Lewis, Von Hammer, Klaproth, Tiarks, C. Bonaparte, Collin and others.

A written communication of Mr. DuPonceau "relating to some of the interests of the Society" was referred to the Board of Officers.

"On a marine animal discovered in the Alluvion of the Mississippi, near to its mouth, now exhibiting in Baltimore." Verbal communication by Dr. Harlan, who had examined it. It was not fossil. It was undoubtedly a Physeter macrocephalus, or Spermaceti whale, on which an erroneous fossil genus Megistosaurus had been established. (See Minutes of April 20, 1827.)

Insurance: On motion of C. C. Biddle

"Resolved, That the Committee of Finance be directed to effect a permanent insurance of \$4000 on the Hall, and an insurance for seven years of \$6000 on the Books, Minerals, Specimens of Natural History, &c.

"Resolved, That \$150 be placed at the disposal of the Committee for said purpose. On reconsideration \$230 was substituted."

Memorial to the Legislature:

"Resolved, That the Secretary write to W. M. Meredith of the Penna. Legislature, requesting him not to present the memorial for aid in publishing the Historical Documents."

Standing Committees appointed for 1828: Building Committee: Strickland, Vaughan, Patterson.

Finance Committee: Biddle (C. C.), Patterson, Ord. Publication Committee: Patterson, Ord, Dr. Bache.

Appropriations voted for 1828: Building Committee, \$150; Periodicals, \$200; Binding, \$75; current expenses, \$150.

Librarian elected: John Vaughan.

New members elected: Don José Maria Bustamente, of Mexico; Don José Maria Salazar, of Colombia; Thomas Harris, M.D., of Philadelphia; Robert E. Griffith, Jr., M. D.; Charles Pickering, M.D.; Samuel G. Morton, M.D., Philadelphia.

An irregularity having taken place in balloting for one of the candidates proposed for membership, it was

"Resolved, That the election for the said candidate be postponed until the next stated meeting of the Society."

1828. Feb'y 1. (Present, 40. DuPonceau in the Chair; Vaughan, Mr. Collins, Hembel, Kane, Nulty, Nichols, Strickland, Dr. Jackson, Short, Dr. Meigs, Dr. Harris, Hopkinson, Dr. Eberle, Ware, T. Gilpin, C. C. Biddle, Carey, Vaux, Dr. Coates, Dr. Patterson, Dr. Collin, Dr. Bache, Dr. Griffith, Dr. Harlan, Dr. Adrain, Bull, Dr. Pickering, Wm. Jones, Dr. Moore, Dr. Brown, Wetherill, Dr. Chapman, Haines, Dr. Morton, Lorick, Dr. Dewees, Dr. Mitchell, Dr. Horner, Ord.)

Library donations from Wm. Humboldt, and others.

Rev. Dr. Collin "made a verbal communication with respect to Prof. Thunberg, from whom he had lately received letters, in which he had requested to be remembered to the Society."

Megatherium: "Dr. Harlan stated that Wm. H. Todd, Esq., of Phil. had lately put into his hands, for examination, a fossil clavicle & part of the sternum of the Megatherium which Mr. Todd had discovered in a Marlpit, at his plantation, in the State of New Jersey."

A motion for proceeding with the postponed election did

not prevail, "the president having expressed his opinion that an election on this evening could not be gone into, agreeably to the Laws of the Society."

1828. Feb'y 15. (Present, 17. Chapman in the Chair; Salazar, Griffith, Pickering, and others.)

Annual Address of the President: "The Board of Officers, to whom was referred the address of the president, delivered on the 18th January, made a report, containing the following resolutions:

- 1. Resolved, That it be hereafter the duty of the President, to present to the society, at the close of each year, or as soon thereafter as convenient, a statement of the most important transactions of the society, during the year; accompanied with a general view of the affairs of the institution.
- 2. Resolved, That these statements be made in writing, and carefully preserved among the society's papers.
- 3. Resolved, That a book be prepared and kept, for the purpose of preserving brief obituary notices of deceased members of the society.
- 4. Resolved, That it shall be the duty of any member, who shall be informed of the Death of any of our associates, to communicate the fact at the first subsequent meeting of the society; that this information be entered in the minutes; and that a member shall be appointed to prepare an obituary notice, which, after being read, and approved, shall be inserted in the book appropriated for this purpose.
- 5. Resolved, That the Curators be instructed to prepare a Catalogue of the articles in the society's Cabinet.
- 6. Resolved, That a committee be appointed to prepare for the press, a Supplement to the catalogue of the society's Library; and that they report to the society an estimate of the expense of printing such supplement.

These resolutions were adopted.

Catalogue Supplement Committee chosen: DuPonceau, Patterson, Mitchell.

Library donations from the Maclurian Lyceum of Philadelphia and eight other persons and institutions.

Communication from Prof. T. J. Matthews, of Transylvania University, read, and referred to Patterson, Adrain, Nultv.

J. M. Salazar's thanks for election read.

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J. W. Dalman's thanks for election; acknowledging receipt of diploma.

Cabinet of Minerals: "Mr. Wetherill's resolution was adopted:

"That the Curators be requested to report a more improved plan of cases for our Minerals, and an estimate of their cost."

1828. March 7. (Present, 19. DuPonceau in the Chair; Adrain, Rawle, B. R. Morgan and others.)

Library donations: F. R. Hassler and seven other sources.

"Report of experiments made on the poison of the Rattle Snake," by Dr. Harlan; first part read by him.

"Some observations on the Moulting of Birds," by Mr. Ord, was read by him and referred to Morton, Pickering, Harlan.

Jos. Sabine, Secretary Horticultural Society, London, acknowledged receipt of Vol. III, Transactions.

Death of De Witt Clinton, Governor of New York, announced by Mr. DuPonceau:

Resolved, That the American Philosophical Society, "sharing in the sensibility which has been in common expressed at the death of their late distinguished associate De Witt Clinton; and desirous of testifying the high respect in which they held his services, as well in the cultivation of science as the promotion of the great public improvements, which were brought to so successful an issue under his auspices; direct the appointment of a member to prepare an Obituary notice of him."

The President appointed Wm. Rawle, Esq.

Further Resolved, "That a committee be appointed to address a Letter of Condolence to the family of De Witt Clinton on the heavy bereavement which they have sustained:" Chapman, Rawle, Morgan.

Athenœum Lease: "Mr. Vaughan stated to the Society that the Lease of the Athenœum had expired; & that the Directors of that institution were about bringing before the Stockholders a plan to purchase a Lot, and erect a building for their accommodation; whereupon it was

"Resolved, That the Building Committee and the Committee of Finance confer with a committee chosen by the Athenæum; and endeavor to re-

tain that Institution as tenants on such terms as they conceive to be for the interest of this Society; and that they have power to take order."

1828. March 21. (Present, 17. DuPonceau in the Chair.)

Athenœum Lease: Committee reported that they had agreed on the terms of a lease for five years, at \$550 per annum; "& that they had made arrangements for certain alterations in the building according to the agreement of the parties."

Committee of Condolence reported their duty performed. Committee on Ord's paper reported it for publication. So ordered.

Library donations from four persons.

Dr. Harlan concluded the reading of his paper (March 7), which was referred to Pickering, Coates, Ord.

J. F. Blumenbach (R. S. Göttingen) acknowledged receipt of Transactions.

Letter of thanks for donations: "Mr. Kane laid before the Society an account of the expense of engraving \$24.65." Ordered paid.

Alterations in building: Resolutions offered by Dr. Patterson, and laid on the table for consideration:

Resolved, That an appropriation of Twelve hundred Dollars be made, for the purpose of fitting up apartments in the Basement story of the society's building; and of making other alteratioms, proposed by the committee, appointed at the last meeting, to confer with a committee to be chosen by the Athenæum, on the subject of a Lease.

Resolved, That the sum thus appropriated be put at the disposal of the Building Committee, for the purposes above stated.

Resolved, That it be referred to the Committee of Finance to raise the sum now appropriated, in such manner as they shall think most expedient.

1828. April 4. (Present, 15. DuPonceau in the Chair.)

Committee on Harlan's paper report it for publication. So ordered.

Library donations from two academies and nine persons.

Acknowledgments of receipt of Transactions American Philosophical Society, Vol. III, from three societies in London.

Cherokee newspaper, published at the Cherokee settlement in Georgia; subscription ordered.

Resolutions submitted by Dr. Patterson at the last meeting, considered and "severally adopted without amendment." [Minutes of this and subsequent meetings, written in a beautiful hand, and signed J. K. Kane.]

1828. April 18. (Present, 26. Patterson in the Chair; Brown, Bancker, Morton, Nichols, Lorich [sic], Vaughan, Griffith, Hopkinson, Harlan, Ord, Wetherill, Col. Biddle, Pickering, Vaux, Dr. Bache, Meigs, Short, Carey, Moore, Mitchell, Harris, Hembel, Haines, Dr. Coates, Kane.)

Library donations from three persons.

Mr. Nichols' paper (not intended for publication) was read by Mr. Vaughan, "presenting evidence in opposition to the assertion made by Mr. Hassler, in his recent work on Astronomy, viz., that *Kepler had anticipated Newton* in the discovery of the law of universal gravitation."

New members elected: José Maria Dantes Pereira, Admiral, and Sec. R. S. Lisbon; Henry J. Anderson, M.D., Prof. Math., Columbia College, N. Y.; Isaac Lea, of Philadelphia.

1828. May 2. (Present, 15. DuPonceau in the Chair; Lea, and others.)

Prof. Anderson's thanks for election were read.

Library donations from five sources.

Acknowledgments from two societies.

Dr. Patterson (in reference to Hassler's claim of priority for Kepler over Newton) read extracts from the works of Copernicus and Kepler, communicated to him by letter by Mr. Hassler; and said that "they showed merely that an extension of the force of gravity to the heavenly bodies had been originated by these astronomers, but they contained no indication whatever of the law by which it acts; so that the claim of the discovery for Newton was not invalidated by them."

1828. May 16. (Present, 14. DuPonceau in the Chair.)

Transactions American Philosophical Society III, iii, reported ready for distribution.

Library donations from thirteen sources. Letters from various foreign societies acknowledged the receipt of copies of the Transactions.

Wm. Shaler's thanks for membership were read.

"A Catalogue of all the members of the Society from its commencement, with the dates of their election, & such other notices respecting them, arranged in columns or otherwise, as they shall on deliberation think proper to introduce," the Secretaries were instructed to prepare.

The Librarian was instructed to purchase Whewell's Mechanics.

1828. June 20. (Present, 15. DuPonceau in the Chair.)

Library donations from Mariáno Cubi y Soler, of Baltimore; Rivinus, of Germantown; James Monroe, of Virginia, and nine other sources. Royal Society of London acknowledged receipt of Transactions.

Mexican Calendar: "A donation to the Cabinet of models of two stones found in Mexico, one of which was said to be that of the ancient Mexican Calendar, was received from Joel R. Poinsett."

"Observations on the birds of the genus *Tetrao*, with a synopsis of the species hitherto known," by Charles Lucien Bonaparte, was read and referred to Ord, Pickering and Harlan.

The Librarian was authorized to buy Elliott's Botany of South Carolina, for presentation to, and at the request of, the Asiatic Society of Calcutta.

1828. July 18. (Present, 16. Patterson; Ord, Hembel, Horner, Ware, Moore, Pickering Harlan, Lukens, Chapman, Vaughan, Adrain, Meigs, Nichols, Dr. Bache, Kane.)

Committee on Bonaparte's paper reported. Ord's motion for publication laid on the table for consideration at the next meeting.

Library donations from seven sources.

Minerals and vegetable remains from the deep cut of the Chesapeake and Delaware Canal, presented by Mr. Kane for the Cabinet.

"On the Berber language:" Mr. Vaughan read parts of a letter recently received by Mr. DuPonceau from Wm. Shaler, Esq.

Acknowledgment of donations received from the Royal Irish Academy.

Mr. Abr. Small's offer "to sell to the Society the remaining copies" of Transactions, Vols. I and II (N. S.), "with the plates, for the amount now due from him to the Society, on his bond held by them, say \$250 and the interest," was referred to the Publication Committee with full power to take order.

Alterations: The Building Committee and Curators were constituted a Committee "to make such alterations in the Hall of the Society, as may be required for the better disposition of the Library and Cabinet," and \$200 were appropriated for the purpose.

New members elected: Dr. Samuel Betton, of Germantown; George Ticknor, of Boston.

1828. Aug. 15. (Present, 15. DuPonceau in the Chair.)

Publication Committee reported Small's offer accepted, bond cancelled, and books received.

Library donations from nine persons and one society. "The Librarian having stated that he had received from his Exc. Baron Schuckmann, Min. Home Dept. of H. M. the King of Prussia, through the Prussian Charge des Af-

faires, M. Niederstetter, thirty-two volumes of the Berlin Memoires, of which our Library was deficient, it was

"Resolved. That the President be requested to acknowledge the safe reception of this valuable donation."

Mr. Joseph Reed deposited in the Library "L'Histoire Générale des Provinces Unies," in 7 Vols. 4°.

Berber language: W. B. Hodgson's letter to DuPonceau, Algiers, May 28, 1828, described the progress of his investigations of the Berber language.

"On the change of the temperature of the air, & of the weather, which the climate of an inhabited and cultivated country may undergo after a lapse of some ages," by Francis Nichols, was read by Mr. Kane. "At the request of the author, no order was taken on this communication." [None of Mr. Nichols' papers seem to have been intended for publication.]

"On the discovery of the Solar System," by Mr. Nichols, was read by Mr. Vaughan.

Resignation of Dr. Patterson from the Publication, Building and Finance Committees, offered and accepted, on account of his change of residence from Philadelphia to the University of Virginia.

Isaac Lea was then chosen on the Publishing Committee; J. K. Kane, on the Building Committee; and Roberts Vaux, on the Finance Committee.

C. Bonaparte's paper was taken from the table, discussed, and ordered for publication in the Transactions.

1828. Sept. 19. (Present, 22. Collins in the Chair.)

Building Committee reported that the appropriation of \$1200 (April 4) was insufficient.

Resolved, That \$150 be placed at the disposal of the Committee "to enable them to liquidate all the claims against the Society, which have arisen from the late alterations and improvements in the building."

Library donations from Rev. Ezra Styles Ely; C. Bernard,

Duke of Saxe-Weimer, and thirteen other persons, and one society.

For the Cabinet, some iron ores from Dr. T. Cooper.

Letters from Com. Torlade d'Azambuja (now at Washington); Viscount de Santarem, of Lisbon; E. Drummond Hay, Sec. S. Antiq., Scotland; Wm. Marsden, Esq., F.R.S.; and Dr. Philip Tidyman, were read.

Geo. Ticknor's letter, "expressing his satisfaction, on his having been elected a member of the Society," was read.

"Remarks on the use of the Maxillæ in Coleopterous insects; with an account of two species of the family Telephoridæ, and of three of the family Mordillidæ, which ought to be the type of two distinct genera," by N. M. Hentz, of North Carolina, was read by Dr. Harlan, and referred to Pickering, Harlan and Collins.

"On a change of climate in the United States," by Mr. Nichols, was read by Mr. Kane. The author requested that no order should be taken. An extract from a Thermometrical Register, kept by Dr. Hodge in Walnut street, Philadelphia, in August, 1828; with some remarks by Mr. Nichols; was read by Mr. Kane. "Some interesting verbal observations on the change of climate observed in the U. S. of late years, were now made by Drs. Hare, Cooper, Mease, Chapman, & Messrs. Vaux, Hopkinson, Vaughan, Collins, & Hembel."

1828. Oct. 3. (Present, 12. DuPonceau in the Chair; Hembel, Vaughan, Ord, Harlan, Collins, Carey, Col. Biddle, Pickering, Hare, Meigs, Kane.)

Library donations from four sources.

A MS. of Franklin, "giving an account of his interview with Lord Hillsborough, on the 16th of Jan. 1771," was presented by Richard Henry Lee, Esq., through Mr. Vaughan.

Mr. Ord deposited in the Library a copy of Ainsworth's folio Dictionary, 4th ed., 1752. A letter from the Secretary French Institute, March 26, 1828, announced the transmission of donations to this Society.

Jos. Graberg's letter, dated Tripoli, in Africa, April 10, 1828, communicated his thanks for election to membership, and announced the transmission by him of several donations.

"On the Arabic dialect of the Mog'rib-el-aksa, or language of the Moors," by J. Graberg, was read and referred to Du-Ponceau, Collins, and Hopkinson.

1828. Oct. 17. (Present, 19. DuPonceau in the Chair.) Committee on Hentz's paper reported for its publication. Adopted.

'Committee on Graberg's paper reported progress.

Library donations from the King of Denmark, Prof. Rafn, Royal Danish Society, Prof. Ormsted, M. LeVasseur, of Paris, and four others. The President was requested to "express to Mr. Pedersen, as the representative of his Danish Majesty, the gratitude of the Society for the very liberal donation made by his majesty to the library of this institution."

Rafn's communication "on the subject of certain monuments discovered on the coast of Greenland, which establish this fact, that America was visited by inhabitants of the North of Europe in the year 1135," was read, and "referred to the President for reply."

Ord's resignation from the Publication Committee was communicated and accepted; and R. E. Griffith appointed to supply the vacancy.

For binding books, an additional \$40 was appropriated.

Revision of the Laws: On motion of Dr. Chapman a Committee was appointed "to take into consideration the revisal of the laws of the Society." The President, Mr. Hopkinson, and Mr. Kane.

New member elected: Prof. James Renwick, of Columbia College, New York.

1828. Nov. 7. (Present, 18. Chapman in the Chair; Seybert, and others.)

Library donations from thirteen sources; among others J. P. C. Casado Giraldes of Havre, whose letter requesting geographical and statistical information was referred to Vaughan and Raguet, to collect the information asked.

M. Quadrado's request was granted, and the Librarian directed to complete the Set of Transactions American Philosophical Society in the Library of the Royal Academy at Madrid.

"A brief view of the policy of the Founders of the Colonies of Massachusetts, Rhode Island, N. Jersey, Pennsylvania, Maryland, Virginia, & Carolina, as regards the liberty of conscience," by Mr. Carey, was read by Dr. Bache. It was not offered for publication.

"The Atheneum being desirous of relinquishing the basement story room, in case a satisfactory arrangement could be made," the Building Committee were "authorized to confer with any committee appointed on the part of the Atheneum," and report at the next meeting.

1828. Nov. 21. (Present, 17. Du Ponceau in the Chair.)

Building Committee reporting that the Athenæum Committee "offer, either to give up the room, on a reduction of \$100 [? 160] in the rent, or to let the room jointly with the Society, and share the profits;" "the whole subject was referred to the Building Com. to take order thereon."

Library donations from five persons, and the editor Southern Review.

The death of Prof. Thunberg, of Upsal, was announced, and Mr. Lorich was appointed to prepare a biographical notice.

1828. Dec. 5. (Present, 16. DuPonceau in the Chair.)

Publication Committee "made a report of their proceedings from the date of their appointment up to the present time." Accepted.

Building Committee reported, that they had agreed with

the Athenæum about the north basement room; the Athenæum relinquishing it, on a reduction of \$75 on their rent; "making their rent from the first of the present month \$475."

Library donations from four persons. For the Cabinet, "several specimens of the siliceous deposits from the great spring of Geyser, in Iceland," from Mr. Pedersen.

1828. Dec. 19. (Present, 16. Du Ponceau in the Chair.) Committee on Graberg's paper reported, with a resolution, which was adopted:

"Resolved, That the Secretary address a letter of thanks in the usual form to Mr. Graberg de Hemso, for the copy which he has been pleased to send to the Society of his interesting communication to the Journal Asiatique of Paris, on the Arabic dialect spoken & written by the Moors of Africa."

Library donations from Adelung and three other persons. For the Cabinet, a donation [not described] from Mrs. Griffiths, of New Brunswick, New Jersey.

Poinsett's MSS.: "A letter from Mr. Poinsett was read respecting some manuscripts, which he had collected, relating to early journeys made through portions of Mexico, & to certain antiquities. These MSS. the writer expressed his intention to deposite [sic] in the Society's cabinet."

"On the effect of cultivation on Climate," by Mr. Nichols, was read.

Adelung's request for a copy of the Transactions [N. S.] American Philosophical Society was granted.

The Seal used by the Secretaries being reported by Mr. Kane as lost, DuPonceau, Vaughan and Kane were appointed a Committee "to determine a suitable device for a new seal to be engraved without delay."

1829. Jan'y 2. (Present, 9. Strickland in the Chair; Lukens, Harlan, Vaughan, Meigs, Wetherill, Mitchell, Mease, Morton.)

ELECTION OF OFFICERS.

President-DuPonceau.

Vice-Presidents-Collins, Patterson, Chapman.

Secretaries-Ord, Bache, C. C. Biddle, Kane.

Councillors for three years—Hare, Rawle, Hopkinson, Hembell.

Curators—Mease, Wetherill, Griffith.

Treasurer-Vaughan.

Mr. Vaughan reported that the old seal of the Society was found. The Committee for providing a new seal was continued.

Library donations from M. Quadrada and M. De Moleon, of Paris, a letter from the latter of whom was referred to the President.

Mr. Lukens presented "a fragment of a bell fused by lightning."

1829. Jan'y 16. (DuPonceau in the Chair; Vaughan, Griffith, Wetherill, Lukens, Moore, Pedersen, Chapman, N. Biddle, Short, Lea, Pickering, Harris, Hare, Lorick, Morton, Coates, Meigs, Morgan, Kane, Adrain, Nicolls, Strickland, Hembel, Mitchell, Harlan, Mease, Hopkinson, Bache.)

(1768.) A memoir on the revenues of the country, by the late Charles Thompson [sic]. A copy of this old document was laid before the Society by the President. It had been submitted in 1768 to the American Society for Promoting Useful Knowledge, as an exposition of his views on the subject of enlarging the operations of the Society.

"On equinoctial gales," by Mr. Nicolls (not intended for

publication), was read.

Standing Committees appointed:

Building: Strickland, Vaughan, Kane.

Finance: C. C. Biddle, Vaux, Moore.

Publication: Bache, Lea, Griffiths.

Appropriations for 1829: Building Committee, \$150; periodicals, \$200; binding, \$75; current expenses, \$150.

Librarian elected: Vaughan.

New members elected: Thomas Biddle, Esq., of Philadelphia; Rev. Wm. H. Delancey, of Philadelphia; Hans Christian Oersted, of Copenhagen; Baron Hyde de Neufville, of France; Prof. Carls Christian Rafn, of Copenhagen; Henry Wheaton, Esq., of New York, Chargé d'Aff. at Copenhagen.

1829. Feb'y 6. (Present, 16. Duponceau in the Chair.) Library donations from M. Pereira, Dr. Tyarks, of London; Motley, of Boston; Stephen Duncan, of Philadelphia; Cabinet donations from M. Pedersen and Isaac Lea.

New members' letters of acknowledgment: Ticknor, Renwick, Pereira and Delancey. The Geographical Society of Paris, acknowledged, "donations from this institution."

"On the imperfections and variance of the common thermometers," by Mr. Nicolls was read by Dr. Bache. At the request of M. Nichols, no order was taken on that paper.

The death of General George Izard was announced, and Judge Hopkinson was appointed to prepare an obituary address.

The Icelandic Society's letter requesting the gift of duplicate books in the Library was read.

1829. Feb'y 20. (Present, 4. Duponceau in the Chair; Vaughan, Wetherill, Pickering.)

A bust of John Quincy Adams was received from Dr. J. K. Mitchell.

Ordered that a copy of the new Transactions be presented to the Royal Northern Antiquarian Society of Copenhagen.

1829. March 6. (Present, 19. Duponceau in the Chair.)Library donations from two persons and three societies.A bust of LaFayette was received from Dr. Chapman.

"Conchological remarks on Lamarck's family of the Naiades," by Philip H. Nicklin, was read by Mr. Lea. Referred to Griffith, Pickering, Collins.

"On the genus Unio," by Mr. Lea; read and referred to

Griffiths, Pickering, Collins.

An anonymous paper on Orthoepy criticising the Walker system, was read, but not intended for publication.

The Society of Sciences and Arts of Batavia acknowl-

edged donation.

Ordered that \$27.12 being interest accrued during 1828 on a reserved fund of \$603, and interest accruing hereafter, shall till otherwise ordered be placed at the disposal of the Publication Committee, &c.

1829. March 20. (Present, 16. Patterson in the Chair; Pickering, and others.)

Library donations from four sources.

A paper by John Dawson, late of Sedberg, England, was read and referred to Nulty, Adrian, Nichols.

- "On the construction of eclipses of the sun," by Mr. Gummere, was read by Dr. Bache and referred to Adrian, Nulty, Moore.
- "Meteorological observations made by Dr. Hodge, Philadelphia, in Feb. 1829," was read and ordered to be placed among the archives.
- "Additional note to Dr. Harlan's paper on the poison of the rattlesnake" (See Transactions American Philosophical Society, 3d Vol. N. S.), was referred to Pickering, Coates, Griffiths.

Acknowledgments from three foreign societies.

The Keith Biennial Medal of the Royal Society of Edinburgh: Letter from the Society's Secretary calling attention to it, was referred to Vaughan, Bache, Kane, with power to take order.

1829. April 8. (Present, 17. DuPonceau in the Chair.) Committee on Harlan's paper reported it for publication.

Committee on Nicklin's paper reported it for publication.

Donations from Von Hammer, Audubon, and W. H. Furness.

"Description of a new species of Astacus," by Dr. Harlan, was read and referred to Pickering, Coates, Griffiths.

Notice of an anatomical peculiarity observed in the structure of the Condor of the Andes," by Dr. Harlan, was read and referred to same Committee.

Mr. Nicholls's proposition that a table of meteorological and thermometrical observations should be kept by the Librarian, was referred to Nicholls, Hembell, Morton. Later in the evening the Committee reported a resolution, which was adopted:

"Resolved, That immediate measures be taken to procure from London a barometer, thermometer, and hygrometer of the best construction," by the same Committee.

J. P. Espy's request to borrow the Society's achromatic telescope was referred to Lukens, Bache, Kane.

A letter from the Royal Librarian of the Netherlands, respecting the receipt and envoy of donations in exchange.

1829. April 17. (Present, 30 members: DuPonceau, Vaughan, Lea, Reed, General Swift, Strickland, Bache, Vaux, T. Biddle, Lukens, Horner, Judge Smith, Griffith, Nicholls, Colonel Biddle, Ware, Harlan, Wetherill, Moore, Rawle, Mease, Kane, Morton, Pedersen, Harris, Chapman, Mitchell, Hopkinson, Coates, Hare.)

Committee on Lea's paper reported it for publication. Accepted.

Committee on Dawson's paper (March 20) reported against its publication.

Library donations from nine persons and one society, received.

Sam. Hazard's request for permission to publish in Register of Pennsylvania, edited by him, extracts from certain

manuscripts relating to the early history of Pennsylvania and the other States was referred to the Board of Officers.

Mr. Lea finished the reading of his paper of March 6.

"A journal of the weather kept by Dr. Hodge at Philadelphia for Jan. Feb. March, 1829," was read by Mr. Nicholls, and deposited in the archives.

The deaths of Edward Holyoke and Timothy Matlack, were announced, and Mr. Kane was appointed to prepare

obituary notices of the deceased.

New members elected: Alex. Dallas Bache, of the University of Pennsylvania; Philip H. Nicklin, of Philadelphia; James Kent, LL.D., of New York; Josiah Quincy, of Harvard University; Washington Irving; Joseph Roberts, of Philadelphia.

1829. May 1. (Present, 14. DuPonceau; A. D. Bache, Dr. Bache, &c.)

Committee on Lea's paper reported it for publication.

Committee on the purchase of instruments reported that the situation of the Hall was not favorable to the proposed observations, and recommended that the Committee be discharged, and the Librarian instructed to purchase Haward's Meteorology, and Gay-Lussac's Lessons de Physique. Accepted.

Library: Donations from the Royal Society, Edinburgh, and three persons.

"On the solar system," by Mr. Nichols; first part read.

The Franklin Institute's request for information and other aid "in certain experiments which they are about to institute respecting the action of water as a mechanical force and the best mode of applying it," was referred to Nulty, Bache (A.D.), and Lukens.

1829. May 15. (Present, 14. DuPonceau; Roberts, Seybert, Nicklin, and A. D. Bache, and others.)

Board of Officers and Committee on Franklin Institute request, report progress.

Donations for the Cabinet from Jon. Fell and J. Pierie. "On the solar system;" reading concluded; referred to Dr. Bache, Mr. Roberts, and Prof. Bache.

Letter from Michaux; Librarian instructed to continue the Society's subscription to Ferussac's Bulletin des Sciences, another year.

1829. June 19. (Present, 23. DuPonceau in the Chair.)

Board of Officers reported in favor of granting Mr. Hazard's request of April 17. It was so ordered "under the supervision of the President of the Society."

Franklin Institute request Committee reported progress.

Library donations from ten sources.

Fossils from the deep cut of the Chesapeake and Delaware Canal were received for the Cabinet from Hugh Lee, Assistant Engineer.

A tropical seed, found on the coast of Ireland, from Mr. Pedersen.

M. Morandini, of Pisa, by letter, announced the publication of a translation of the Historical Transactions in the Italian language.

The death of John E. Hall was announced by the Presi-

dent.

The death of M. Francis de Borja Garção, at Lisbon, March 6, was announced by letter from Mr. Daubas.

"On the originating causes of the American revolution," and "On the orthography and orthoepy of the english language," two papers by Mr. Nicholl's, were read by the Secretary.

"On certain improvements in domestic economy," by Dr. M. Crevelli, was communicated by the Librarian.

M. Hyde de Neufville acknowledged the honor of election.

"The President was requested to communicate to M. Daubas the expression of the sympathy of the Society in his feelings on the occasion of the death of M. Stockler."

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The President was requested to prepare an introduction to the forthcoming volume of the Transactions.

1829.

Dr. Mease was permitted to copy for publication in an English journal, Mr. Poinsett's account of the cypress tree near Oaxaca. (See minutes of June 1st and November 2, 1827.)

1829. July 17. (Present, 28. DuPonceau in the Chair; Bache, Hembel, Griffith, Pickering, Harlan, Meigs, Roberts, Coates, Haines, Nulty, Short, Banker, Hopkinson, Mease, Vaughan, Rawle, T. Biddle, Pedersen, Chapman, Lukens, Gilpin, Prof. Bache, Nichols, Horner, Adrian, Kane.)

Library donations from seven sources.

A collection of fossils earths, and minerals from the deep cut of the Delaware and Chesapeake Canal from Daniel Livermore and And. A. Dexter, Engineers, for the Cabinet, "with a memoir and profile of the geological strata developed in the progress of the work."

Resolutions passed by the Franklin Institute on the subject of the removal of Dr. T. P. James from the Patent Office and a memorial for his restoration were presented for the concurrence of the Society, and laid on the table for the present. After the election it was

"Resolved, That the Secretary be instructed to inform the F. I. that it is not in their view proper for this Society to express an opinion on the subject"

Election of new members: Prof. R. K. Rask, of Copenhagen; Jos. Nich. Ben. V. Abramson, of Copenhagen; Geo. B. Wood, M.D., of Philadelphia.

1829. Aug. 21. (DuPonceau; Nicholls, Mease, Eberle, LaRoche, Wood, Vaughan, Griffith, Morton, Pickering, Ware, Short, Moore, Conrad, Kane.)

Library donations from fifteen sources.

Dexter's Memoir and geological section of the C. & D. Canal were referred to Morton, Pickering, Wetherill.

Letters of acknowledgment from foreign societies, and a letter from W. Vaughan, announcing donations, were read.

"Observations and experiments at Sandy Spring to determine the mean temperature of the air and water" by Wm. Darby, of Maryland, were referred to Adrain, Roberts, Hembel.

The death of M. Thorembert, at Lyons, was announced by the President, who assumed the duty of preparing an obituary notice.

On the course of mathematics prepared for Harvard University by Mr. Nichols, was read by the Secretary.

1829. Sept. 18. (Present, 24. DuPonceau; Cloud, Tidyman, Ware, Lorich, F. Bache, A. D. Bache, Rawle, and others.)

Donations from six sources.

Committee on Gummere's paper reported for its publication; adopted.

Mr. Tanner's request that his new Map of the United States and the accompanying memoir should be examined, was read and referred to Ware, Kane, Vaux.

The volume and letter sent by the Société de la morale Chrétienne, proposing certain questions respecting Prisons, were referred to Vaux, F. Bache, Kane.

A letter from Mr. Ord, in Paris, announced a donation of books from Mr. Jas. Brown. Mr. Ord was authorized to purchase Vols. XIII, XIV, XV, of Shaw's Zoology. Mr. Shaw presenting the remaining volumes.

"A memoir of [sic] magnetism" was submitted and referred to Adrain, F. Bache, Hare.

Committees on papers: "The following motion, submitted by Mr. Nicholls, was laid on the table for consideration at the next meeting: All committees to whom papers are referred shall present a written report on them to the Society before the fourth stated meeting in winter, and the second in summer, after the papers have been read to the Society; and committees which do not report within the time prescribed shall be discharged."

1829. Oct. 2. (Present, 20. DuPonceau in the Chair.)

Library donations from four persons. For the Cabinet, a specimen of retingsphalt [sic] from the deep cut (Del. & C. Canal), presented by A. A. Dexter, and other minerals by F. Leoming.

Berber Language: Four letters written on the Barbary language, with several papers, comprising a Grammar and specimens of the language, received from Mr. Wm. B. Hodgson, of Algiers, were referred to Lorich, DuPonceau, Rawle.

Dr. Hare's request to borrow the large lens was granted. Josiah Quincy returned thanks for membership. Nicholls's resolution was again postponed.

1829. Oct. 16. (Present, 37. DuPonceau; Vaughan, Lukens, Wood, A. D. Bache, Conrad, Roberts, Lea, Bancker, Nichols, Harlan, Dr. Otto, Short, La Roche, C. Biddle, Meigs, Coates, Moore, Pollock, Nicklin, Horner, Harris, Mitchell, McIlvaine, Chapman, Kane, Hopkinson, Vaux, Pickering, Hare, Collins, Morton, T. Biddle, Livingstone, Hembel, F. Bache, Sergeant.)

Library donations from six sources.

A committee was appointed to enquire into the practicability and expediency of making arrangements for the better accommodation of the Society: Hopkinson, Chapman, Strickland.

New members elected: The Chevalier Charles Pougens, Paris; Don Francisca de Paula Quadrado, Madrid; M. Jomard, Paris; Henry S. Tanner, of Philadelphia; Daniel B. Smith, of Philadelphia; Dr. Thomas Horsfield, of Pennsylvania. 1829. Nov. 6. (Present, 22. Chapman in the Chair.)

The Committee appointed at the last meeting reported a plan which was submitted to the inspection of the members. Mr. Kane's resolution that the report be accepted, the plan adopted, and the committee authorized to carry it into effect, was laid on the table for the present.

Donations reported from four sources, with a letter from

Mr. J. Davis, one of the donors.

M. Quadrado, Mr. D. B. Smith, and Mr. Tanner sent their written thanks for election to membership.

The committee on Hodgson's papers having reported favorably, they were ordered for insertion in the Transactions after revision and arrangement by the President.

Mr. Kane's resolution was now taken up and adopted.

1829. Nov. 20. (Present, 15. DuPonceau in the Chair.)

Donations from Berzelius, and seven other sources.

A mineralogical specimen from Wm. Boyd, for the Cabinet.

A letter from Mr. Harris accompanied his donation.

1829. Dec. 4. (Present, 17. DuPonceau in the Chair.)

No offers for the Magellanic premium were reported.

Donations were received from Fischer de Waldheim and seven others.

"Description of a fragment of the head of a new fossil animal discovered in a marl pit near Moorestown," by Dr. Isaac Hays, was referred to Lea, Collins, Griffiths.

"A plain, concise and general method of resolving all numerical problems, in which proportion is concerned," by Mr. Nicholls, was referred to Adrain, A. D. Bache, Bancker.

Some Barometrical Observations were described by Mr. Bancker. His barometer, four weeks ago, stood at 30.85 inches. The same usual height was observed at Boston. To-day it stood at more than 31 inches.

1829. Dec. 18. (Mr. DuPonceau in the Chair.)

Donations from Mount St. Mary's College; N. Bowditch; D. Meigs.

On the means of distending caoutchouc bags so as to form sheet caoutchouc, by Dr. Mitchell; read and referred to F. Bache, Seybert, and A. D. Bache.

On vegetables from which cordage is made, by Dr. Mease. *Magnetic Variation*:

"Resolved, That a committee of three be appointed to enquire into the expediency of obtaining from the public surveyors of the State of Pennsylvania, the results of observations which they may have made upon the variation of the magnetic needle (by a report from them of such results to the Society), and to report. A. D. Bache, Collins, Adrain.

1830. [Five pages are here left blank, evidently for the minutes of the annual election and of the stated meeting of January 1st.]

1830. Jan'y 15. (Present, 25. Duponceau in the Chair; Chapman, Hopkinson, Vaughan, Griffith, Meigs, Lorich, A. D. Bache, Morton, Wetherill, Lukens, Pedersen, Pickering, Haines, Featherstonehaugh, Mease, Quadrado, Nicklin, Short, Nickols, Lea, Mitchell, Collins, Kane, Horner.)

Committee on Hays's paper (Saurodon) reported for its publication.

Committee on Godman's paper reported it for publication; both adopted.

Donations from five persons and a journal.

Abrahamson acknowledged by letter the honor of election, "announcing a donation of the different works of which he is the author, or which have been published under his care."

"Certain electrical experiments and investigations," by Mr. Edward Clibborn, in a letter to Mr. Vaughan, were read and laid on the table.

Librarian chosen for the year, John Vaughan.

Standing Committees chosen for the year: Hall, Strickland, Vaughan, Kane.

Finance: C. C. Biddle, Vaux, Moore. Publication: F. Bache, Lea, Griffith.

Annual appropriations for: The building, \$150; for periodicals, \$200; for binding, \$75; contingent expenses, \$150.

New members elected: Bishop Münter, of Copenhagen; J. P. Abel Remusat, of Paris; William Yarrel, of London; Chief Justice John Marshall; Jules de Wallenstein, of Russia; Thomas McEuen, of Philadelphia.

1830. Feb'y 5. (Present, 17. DuPonceau in the Chair.)

Committee on Mease's paper on plants yielding fibre fit for cordage, reported that, regarding the memoir as containing interesting matter, the result of much industry and research, and derived from many respectable authorities, they, however, think that it is less calculated for the Society's volume, than some agricultural or other journal of greater circulation. Adopted, and the Committee discharged.

Donations from three sources.

Letters of acknowledgment accepting membership were received from M. De Wallenstein (who was present), and from M. Rask, also announcing a donation of books.

The death of Dr. Sam. Brown, of Alabama, was announced, and Dr. LaRoche was appointed to prepare an obituary notice. The President was requested to write a letter of condolence to his brother, James Brown.

1830. Feb'y 19. (Present, 28. DuPonceau in the Chair.)

The Hon. James Brown's reply to the President's letter of condolence was read.

Donations from four sources.

"On the invention of Hadley's octant or quadrant as it has been called," by Mr. Nichols, was read by Dr. Bache.

1830. March 5. (Present, 19. DuPonceau in the Chair.) Donations from seven sources.

"On operations in Lithotrity," being extracts from a let-

ter to Dr. Coates, from Dr. A. G. Smith, of Ky., now in Paris, was read.

1830. March 19. (Present, 19. Duponceau in the Chair.)

Dr. Mitchell had leave to withdraw his paper on Caoutchouc in order to make additions thereto.

Donations from five sources.

Condorcet's bust in marble was presented by W. Short, Esq.

Dr. Laroche read his biographical memoir of Dr. S. Browne, which was approved and ordered to be recorded in the book appropriated to that purpose.

1830. April 2. (Present, 12. DuPonceau in the Chair.) Donations from four sources.

Mexican Antiquities: Extensive donations were received to the Cabinet of a number of very valuable Mexican antiquities from the Hon. J. Poinsett, and Mr. W. H. Keating, and of a series of minerals from the same region from the Hon. Mr. Poinsett, and the Secretary was directed to tender to those gentlemen the thanks of the Society for their liberality.

Letters were received from Pougens, Horsfield, and Marshall, acknowledging the honor of membership.

The death of Bustamente was announced by Mr. Keating, who also communicated the circumstances which had prevented him from acknowledging the receipt of the Society's diploma of membership.

Mr. Keating and Mr. Poinsett were requested to unite with the Curators in arranging and preparing a Catalogue of the valuable donations this evening received from them.

The Curators were authorized to provide proper cases.

Also, to lend Mr. Franck such of the specimens of Mexican antiquities . . . to illustrate the fidelity of his drawings, now exhibiting to the public.

Mr. Franck was permitted to make and publish drawings from the Mexican specimens.

1830. April 16. (Present, 89. Dr. Chapman in the Chair); Hopkinson, Strickland, LaRoche, Quadrado, Morton, Ware, McEuen, Mease, Tanner, Keating, Cary, Bancker, Pickering, Haines, Wood, Poinsett, Conrad, Lea, Horner, Nicklin, Wetherill, Gibson. D. B. Smith, Meigs, Hembel, Harlan, Griffiths, DuPonceau, De Wallenstein, Vaughan, Kane, C. C. Biddle, Lukens, Coates, Vaux, F. Bache, Hare.)

Notes on Dr. Hays's "Description of a fragment," &c., and Notes on Dr. Godman's "Notes on the new fossil genus," &c., were read by Dr. Harlan. But these were not intended for publication.

Donations from four sources.

The cast of a "Singular impression in primitive marble from Henderson's quarry in Montgomery county, was received with a letter from Mr. Peter A. Browne.

Mr. Poinsett presented, in addition to his gifts of the last meeting, "Specimens of workmanship in pure gold, found in the tombs of the original inhabitants of Mexico."

New members elected: Duke Bernard, of Saxe-Weimar; Wm. B. Hodgson, of Virginia; Isaac Hays, M.D., of Philadelphia; Hon. Jona. Sewell, Chief Justice of L. Canada, President of the L. and P. S. of Quebec; Wm. Vaughan, Esq., of London.

1830. May 7. (Present, 19. Collins in the Chair.)

Donations from eight sources.

A fragment of the Giant's Causeway was presented by Wm. M. Camac.

"Description of a new species of Sarracenia," by Thos. Nuttall, was read and referred to Collins, Conrad, Lea.

"Description of a new species of Symphynota," of seven new species of Naiad, and of three species of Melania, were read by Mr. Lea. 1830. May 21. (Present, 18. Chapman in the Chair.)

Committee on Nuttal's paper reported for its publication. "On light and caloric," by Sam. Hyde Saunders, was read and referred to Hembel, Conrad, Hare.

Mr. Lea added to his last communication.

Donations from thirteen persons.

1830. June 18. (Present, 20. Chapman in the Chair; Pedersen, Harris, Quadrada, Conrad, Hays, Lukens, Mease, Wood, Harlan, A. D. Bache, Tidyman, Lea, Morton, Pickering, Vaughan, Hembel, Pollock, Hare, Moore.)

Committee on Saunders' paper reported adversely. Ordered to be returned

The Four Gospels in Berber, and a Berber female's girdle, were deposited by Mr. Hodgson.

Donations were received from Mr. Hassler.

A communication on a mineral subject by Feushwanger [sic] was referred to Conrad, A. D. Bache, Seybert.

Dr. Feuschwanger's offer of 500 minerals at twenty-five cents each was referred to Wetherill, Morton, Griffith.

Jefferson's portrait by Sully was presented to the Society by Mr. Short. From this portrait Sully painted his fulllength portrait of Jefferson for the Military Academy at West Point. Thanks voted.

The death of Bishop Münter was announced as having occurred on April 9th.

Silk Worms: Dr. Mease stated that several thousand worms imported by him from China in March, hatched in a stove room on April 21, 1827, began spinning June 1; finished about June 8; the cocoons turned out to be so small that 1200 weighed one ounce, and were deficient in firmness. Whereas Prof. Lavini's cocoons (from China worms), weighed 210 to a Piedmontese pound of eleven ounces.

Dr. Hare described the successful examination of a stomach for arsenic, by means of nitric acid, lime water, and ignition with charcoal and potash.

1830. July 16. (Present, 20. DuPonceau in the Chair.)

Committee on Feuchtwanger's offer reported adversely.

Committee on Feuchtwanger's paper reported progress.

Donations to the Library from fifteen sources.

Two Peruvian silver sacerdotal vases, and a cestus worn by a vestal of the sun temple at the time of the Spanish invasion, were deposited by Jos. E. Bloomfield.

A Berber translation of Genesis was deposited by Mr.

Hodgson.

Books procured by Mr. Ord in Paris; Librarian authorized to buy them at cost.

M. Jomard's letter of thanks for his election announced the transmission of his works to the Society.

Portraits of the Presidents: Mr. Vaughan having announced that several of the members had made arrangements to procure portraits of the several Presidents of the Society for the purpose of offering them to its acceptance,

Resolved, That the President and Librarian be authorized to request the loan from the proprietors of such portraits of our deceased Presidents as may be deemed the best for the purpose of being copied.

New member elected: Thos. I. Wharton, Esq., of Philadelphia.

1830. Aug. 20. (Present, 12. DuPonceau in the Chair.)

Committee on Feuchtwanger's paper reported that he desired to withdraw it; permission was granted.

Donations from four sources.

Donation of minerals from the Missouri Lead Region, with a description from Jos. P. Grant.

"On the art of preserving life from the effects of flame," by the Chev. Aldini, was referred to Kane, Hays, Lukens.

1830. Sept. 17. (Present, 22. DuPonceau in the Chair.) Librarian reported the Feuchtwanger MS. returned. Donations from twelve sources.

The Lisbon Academy sent list of preminms and donations. S. Bradford's proposal to publish 120 portraits of Indian chiefs, &c., was laid on the table.

Poisoning vegetables with their own poison: Dr. Harlan communicated the results of his experiments. The vegetables were not affected as asserted by M. Macuire, in Ferussac's Bulletin of March.

1830. Oct. 1. (Present, 14. DuPonceau in the Chair.)

W. Vaughan and W. B. Hodgson acknowledged their election.

Donations from four sources.

On information that H. E. Fred. Adelung had transmitted a large and valuable donation of books,

Resolved, That the Librarian transmit a copy of the Transactions, N. S., to M. Adelung with a letter acknowledging his liberality to the Society.

M. De Gournoff's letter to Mr. Vaughan with a pamphlet on Russian Foundling Asylums, soliciting information as to the results of similar institutions in the United States was read.

Del Rio's request for a small specimen of sulphuret of silver for analysis was granted.

1830. Oct. 15. (Present, 27. DuPonceau in the Chair.) Donations from Adelung and Lieber.

A portrait of DuPonceau by Sully was presented by Messrs. Vaughan, Strickland, N. Biddle, Pollock and Collins.

Committee appointed to exchange duplicate shells for such as are not in the Cabinet: Lea and Griffith.

New members elected: Lorenzo Martini, of Turin; Andreas del Rio, Professor of Mineralogy at Mexico; Marc Antonio Julien, of Paris.

Election Rules: "In the course of the election the following positions were ruled by the Society after full discussion:

1. That where on examining the Ballot Box on the election of a candi-

date, it appears that there were more Ballots received than there were members present, at the election, the proceedings must be considered irregular and the Election null. 14 to 10.

2. That when on examining the Ballot Box on the election of a candidate, a small piece of white paper was found in the box, and a member affirmed that he had used such piece of paper* shall not be counted as a

vote in favor of the candidate. 17 to 7.

"The election of a candidate having been gone into and closed, the Secretary having opened the Ballot Box, but the result of the election not having been declared by the Presiding officer, the hour of 10 o'clock arrived; and thereupon a question being stated as to the situation of the election, it was determined by the members present, that such election being incomplete, no result could be declared, that therefore the Secretary should remove the Ballots from the Drawer."

1830. Nov. 5. (Present, 23. DuPonceau in the Chair.)

Committee on collecting magnetic observations was discharged.

Donations for the Library from ten sources.

A specimen of calcareous deposit from the Tartarian lake near Rome, was received from Dr. LaRoche.

"Silver ores reduced by the method of Becquerel," by M. Del Rio, was referred to A. D. Bache, Wetherill, Hembel.

A copy of the Transactions Hist. Com. ordered to be sent to the Michigan Historical Society.

A communication on Mutual Instruction in Denmark, with pamphlets, from M. De Abrahamson, was laid on the table.

Committee appointed to collect Observations made in all parts of the United States on the Variation, Dip, &c., of the magnetic needle, through any channels open to them or to the Society: A. D. Bache, Keating, Bancker.

Del Rio's request for any minerals for analysis which can be spared from the collection, was granted.

^{*} It omitted.

Dr. Coates made a communication on the process of Lithotrity.

The candidate whose election was declared incomplete at the last meeting, was now declared a candidate in nomination.

1830. Nov. 19. (Present, 22. DuPonceau in the Chair.)

Donations from four sources.

Lead, Copper and Iron ores from Illinois, Missouri, and the Northwest, were received from Ed. Coles, of Illinois.

A Thermometer (with its instructions) was received from Jos. Jaeckel, of Austria, used in the inspection of Gunpowder and Saltpetre.

"Account of a nondescript species of Orang-Otang from Azam," was read by Dr. Harlan, who exhibited dried specimens. Referred to Morton, Pickering, Horner.

A list of the Medical Committee to be made by the Librarian for Dr. Horner, Chairman.

1830. Dec. 3. (Present, 21. DuPonceau in the Chair.)

The Poinsett Collection Committee reported progress.

Donations from eight sources.

- "An account of a method of treating Morbus Coxarius as practiced by Dr. Philip Syng Physick," by Dr. Jacob Randolph, was read.
- P. A. Browne's recommendation of a revision and new edition of McClure's Geological Map of the United States was laid on the table. Afterwards it was referred to Wetherill, Pickering, Keating.

Treasurer's report was reported ready for examination by the Finance Committee.

1830. Dec. 17. (Present, 23. DuPonceau in the Chair.)

Finance Committee reported the Treasurer's accounts correct. Balance in his hands, \$16.70 on general account;

\$221.56 on the Magellanic Premium Fund; \$40.94 on the Rittenhouse Fund.

The Building Committee reported the New Arrangements of the Hall to be complete, and that places were now provided for the Vice-President and Curators.

The Committee on the Geological Map reported its repub-*lication at the present time inexpedient. Accepted.

The Committee appointed on the 17th October, 1828, to take into consideration the Laws of the Society, and the subjects connected therewith, made a report as follows:

"That after a careful examination of the Laws of the Society, they unite in opinion as to the Propriety of submitting them to a full revision, and of arranging them under appropriate titles. Not a few of them as they stand at present are unsuited to the existing situation of the Society, and are habitually disregarded by tacit consent, others are seldom noticed without an expression of the embarrassment to which they subject the occasional business of the meetings; and some are directly opposed, or with difficulty reconcilable to other equally positive regulations.

"The Laws of the Society are included under three Titles—the Act of Incorporation, passed March 15, 1780—twelve regulations, adopted soon after the formation of the Society on the 3d February, 1769, and the By-Laws, enacted on the 4th May, 1804, and since amended by standing resolutions in various particulars. Of these, the Act of Incorporation is, of course, not susceptible of any modification by the Society. The By-Laws, so called, may without doubt be modified or repealed at pleasure;—but a question has been suggested, whether the twelve regulations of February, 1769, have not been so recognized and adopted by the Act of Incorporation, as to preclude the right of the Society to amend them.

"As this question has an obvious and very important bearing upon the duties of the Committee, they have considered it very fully, and it is the object of the present report to express their views in regard to it, and to invite a corresponding expression of the opinion of the Society. Its decision will indicate the extent to which the proposed revision shall be carried by the Committee.

"The twelve Laws referred to are spoken of in the Act of Assembly, as 'the fundamental Laws and regulations of the Society,' comprised in twelve sections, prefixed to their volume of Transactions, published in Philadelphia by 'W^m & Thos Bradford'—and it has been supposed that the term fundamental implies a permanency of character, inconsistent with the notion of future amendment. While, however, it must be admitted that this is a common meaning of the term, it is equally certain that it has other meanings which would not support the argument. It is

often used to express the important and primitive character of an act of Legislation, which is yet essentially liable to revision and repeal,—and this remark may be sufficient to invalidate any important inference from its application to these laws. That mode of interpreting a statute is rarely to be relied on which refers to the Philological meaning of an insulated word. It is wiser to examine the general Tenour and scope of the Instrument, and to ascertain the sense of each paragraph by relation to its connexion with the rest.

"The twelve Laws are first referred to in the principal enacting clause of the Act, where they form part of the description of those, for whose benefit it was passed, and who became corporators at the moment of its enactment. That clause declares them to consist of the members of the A. P. S., &c., heretofore voluntarily assembled, or in other words, of its founders, who came in without election and of 'such other persons as have been duly elected members and officers of the same agreeably to the fundamental laws and regulations comprised in the twelve sections,' &c.; in other words such as had before the Act of Incorporation been elected members, according to the then subsisting regulations. These two classes of persons were declared to constitute the corporation. This provision therefore relates exclusively to the first Corporators; and has precisely the same effect, as if they had been mentioned by their names, instead of being described by reference to the manner in which they had obtained their Membership. Nothing can be inferred from this, of peculiar dignity in the twelve laws.

"They are again mentioned in the third enacting clause of the Act, after directing that certain officers shall be chosen for the well governing of the Society, this section provides that the election shall be by ballot, 'agreeably to the Fundamental Laws' and 'that notice of the same shall be given' in the newpapers agreeably to the fundamental Laws. Those parts of the twelve laws which describe the manner of electing officers. and the character of the notice of the election, are thus incorporated into the Act of Assembly, and become incapable of alteration by the Society. But while the 3d Chapter of those Laws, in which the provisions referred to are all of them contained, is made by the reference part of the Act, other parts of the Section in the opinion of the Committee effectually negative the idea that any but the provisions so recognized are to be esteemed permanent and irreparable. The Section creates the Council of the Society; excludes certain members from the rights of voting, and of being elected, and exacts additional qualifications from all who vote at the Elec-These are in themselves substantial modifications of the fundamental Laws, and one of them at least amends the conditions of the Union which gave birth to the Society. Besides when this Section twice mentions the fundamental Laws as flxing forever the mode of conducting and giving notice of the election, it adopts, as if by design, a different expression, while describing the rights of Corporators of the Electors and alludes to 'such laws as shall then be in force.'

"The remaining Sections of the Act of incorporation have no reference to the Laws in question. Yet the fourth Section which defines the manner of passing new Statutes, laws, regulations, and ordinances is drawn with singular care. And it is difficult to believe if the Legislature intended to confer on them an inviolable character, that this would not have found a place among the many limitations and restrictions, which are detailed in this part of the Act. In fact this Section repeals several of the provisions of the fundamental Laws, and substitutes others.

"And it concludes by declaring that all the Statutes, ordinances, &c., made by this Society in the manner therein prescribed, shall be binding on any member, and shall be inviolably observed, provided they are not repugnant to the laws of the Land. Had it been determined that a By-Law should also be invaid [sic] if repugnant to the twelve Laws, it would have been naturally and easily expressed by an addition to this last proviso.

"But, if it were even admitted that the whole of these laws had received the sanction of a Legislative Act, it might still be reasonably doubted whether the corporation might not amend them at its discretion. The tenth chapter of them expressly provides for new laws, and does not limit in any manner the right of the Society, in regard to them; if this chapter then, is admitted with the rest, it is plain that they may all be repealed or modified by new laws duly passed.

"The right to make, alter, and repeal its bye laws, is indeed incident to every corporation and the manner of doing so is for itself to determine. They must not contravene the Laws of the Land, nor must they contradict the Law of its constitution, its charter. But, in all other respects, the power to precribe [sic] and to modify its own laws is unlimited and it is for those who deny the validity of a particular By-Law to shew that it has exceeded the limits of the Corporate authority.

"The Committee are unable to imagine why an irrepealable character should be given to the twelve laws, and not be given at the same time to the articles of the fundamental compact, under which those laws were passed. Nor do they understand why such mere rules of order as, that motions must be seconded before they are voted on; that a member speaking shall stand, and that the others shall be silent, should be dignified with perpetuity of obligation (see Law 2) while the publication of transactions, the office and duty of the Librarian, the use of the Library, and the exclusion of absentees from office, should be left to the regulation of varying bylaws.

"The result of the reflexions of the Committee has been, that the twelve laws passed on the 3 Feb, 1769, are not more binding or more permanent in their character, than any other Laws, statutes, or ordinances of the Society. Two of their provisions, which are included in the 3^d Chapter 'Of the officers, and manner of their election' are irrepealable, because they are referred to by the Act of Incorporation, as fixing the manner, &c., of such elections. The rest may be amended, suspended, or repealed, at the pleasure of the Society, in the manner prescribed by Law.

"This construction has been practically sanctioned by the Society from a very early period. The Society was incorporated in 1780, and before the end of 1788, two of the most important provisions of the twelve laws were essentially changed. In 1786, the first chapter was altered so as to increase the fee upon admission from 10 shs to \$10. In 1788 the 2nd Chapter was amended by increasing the annual contribution from 10 shs to \$10: and at the same time the quorum for electing members and for appropriating money, which by that Chapter, had been fixed at twenty, was reduced to thirteen.

Nor were these changes admitted by our Predecessors, without full and repeated enquiries, as to the extent of their powers. On the 6 Feb, 1784, a Committee, consisting of the late Judge Hopkinson, Dr. Ewing, Mr. Hazard, Dr. Morgan, and Mr. Rittenhouse, made a report on the constitution of Laws of the Society, from which the following is an Extract 'Whereas the Law of Incorporation having reference to certain rules and regulations comprised in twelve sections prefixed to our volume of Transactions seems in the opinion of some to establish those rules irrevocably; and experience having shewn that some of these rules are inconvenient and detrimental to the Interests of the Society on account of the restrictions therein laid, such as confining elections to be held between the hours of two and five on certain days; that no money shall be disposed of without the consent of a certain majority of twenty members met,-with others of the like kind. A strict compliance with which hath been found oftentimes inconvenient and sometimes impracticable. Your Committee would recommend that the Legislature be respectfully applied to, praying that a Supplement may be made to the said Law of Incorporation, taking off all unnecessary restrictions, and leaving all matters respecting the internal polity and government of the Society to be determined on by the Members thereof and to be established or repealed as convenience or experience may point out.' The consideration of this part of the report was postponed, and in the month of November of the same year the Chairman of the former Committee, Judge Hopkinson, and two other Gentlemen, were directed to take the opinion of the Chief Justice, the Judges, and the Attorney General respecting certain sections of the Charter of Incorpora-Their report is not among the Minutes, but it would seem that the doubts of the Society, were soon after removed, and probably by the Intervention of this Committee, for in the following year a law was presented by the Learned Judge, who has been already named as a member of it, amending the fundamental laws in some of the particulars which had been before complained of, and this amendment having been read, was debated by paragraphs, amended, and adopted by a very large meeting on 5 Jany, 1786.

"In the year 1787 other amendments were probably in contemplation, and similar doubts having been again suggested, the draught of a petition to the Legislature was presented by a Member praying 'the alteration of some clauses in the Act of Incorporation.' This was referred for consid-

eration to William Bradford Esq^r at that time Attorney General of Pennsylvania, Dr. Foulke, and Mr. Patterson. Their report is remarkable for its brief simplicity 'that they do not think it expedient to trouble the House at present in that business.' It was evidently satisfactory to the Society, for no further question seems to have arisen on the subject for a long time afterwards, and in the following year other amendments of great moment, were, after much deliberation, made in the fundamental Laws. A similar report was made on the same subject in Dec^r 1799, and it is not known, that since that time, the Society's power over these Laws, as over any others of their own enacting, has been made a subject of doubt.

"This long continued acquiescence in what may almost be esteemed the Contemporaneous exposition of the act of Incorporation, is in the opinion of the Committee, entitled to great weight. It would indeed be most unhappy, were it now to be determined, that their exposition was erroneous. The elections of a majority of those who are now the members, have taken place in the presence of the diminished quorum authorized by the amended Laws; and the elections of all the Officers of the Society, which are indispensable to the continuance of the Corporation, have been made by those members. Both would be invalidated therefore by such a determination, the Society would be entirely disorganized, and its legal existence probably at an end. The Committee are not aware that these results can be avoided, if the right of the Society to amend the twelve fundamental laws is now to be denied.

"The Committee, in conclusion, submit the following resolution for the Society's consideration:

"'Resolved, That in the opinion of the Society, the twelve Fundamental 'Laws and Regulations, passed on the 3rd Feb' 1769 may be lawfully 'amended or repealed, except so much thereof as is included in the 3d 'Chapter of the same."

"All which is respectfully submitted December 17th 1830.

(Signed)

"PETER S. DU PONCEAU,

"Jos. Hopkinson,

"J. K. KANE."

And thereupon it was ordered: That the report and resolution therewith presented, be laid on the table, and they be the subject of consideration, at the next stated meeting of the Society, and that due notice be given in some of the public newspapers that the enacting of statutes and laws, and the making and passing ordinances and regulations, will be part of the business of the meeting.

Library donations from five persons.

Cabinet donations: Thirteen insects from Cuba from Ger-

ard Ralston; and seven minerals from Lieut. Allen Deas, U. S. N.

A communication on three new species of shells (Dolium) by Mr. Isaac Lea for the Transactions.

1831. Jan'y 7. (Present, 23. DuPonceau in the Chair; Chapman, F. Bache, Kane, Vaughan, Griffith, Wetherill, Lorich, Meigs, Nicklin, Harlan, Morton, Keating, A. D. Bache, D. B. Smith, Lukens, Bancker, Pickering, Lea, Hays, Quadrado, Del Rio, Vaux.)

Election of officers reported (42 votes cast):

ELECTION OF OFFICERS.

President-DuPonceau.

Vice-Presidents-Collins, Chapman, Hopkinson.

Secretaries-Ord, F. Bache, C. C. Biddle, Kane.

Councillors for three years—N. Biddle, Collin, Meredith.

Councillor for one year, in lieu of Hopkinson-Keating.

Curators—R. Eglesfeld Griffith, Wetherill, Lea.

Treasurer-Vaughan.

Committee on Harlan's new species of Orang from Assam reported for publication. Accepted.

Committee on Del Rio's paper (Becquerel's process), reported it for publication. Accepted.

Library donations from Babbage, DesMoulins and three others.

Cabinet donations from Mr. Kraff: Minerals from the Perkiomen mines.

A Portrait of Dr. Wistar (formerly President of the Society) by Sully, was presented by Henry Seybert.

Two papers by Mr. Lea describing new shells were read and referred to Nicklin, Morton, Pickering.

Letters from four foreign societies; also a circular letter from the Rhode Island Historical Society, which was laid over for consideration; also, from Counsellor Schlegel of Copenhagen, announcing a donation.

The Librarian reported public notice given of proposed business.

Report of the Committee on the Laws again considered, accepted, and the appended resolution adopted, as follows:

Resolved, That in the opinion of the Society, the Twelve Fundamental Laws and regulations passed on the 3rd of February, 1769, may be lawfully amended or repealed, except so much thereof as is included in the Third Chapter of the same, entitled "Of the Officers and the manner of their election."

1831. Jan'y 21. (Present, 24. Chapman in the Chair.)

Librarian elected: Vaughan.

Standing Committees for the year chosen:

Hall-Strickland, Vaughan, Kane.

Finance-C. C. Biddle, Vaux, Moore.

Publication-F. Bache, Lea, Griffith.

Annual appropriations made: Hall expenses, \$150; Journals, \$200; Binding, \$75; Contingent expenses, \$150.

Donations from six sources.

Portrait of Correa de Serra, by C. B. Lawrence, was presented by the Pennsylvania Academy of the Fine Arts. Thanks voted.

Surgeon General Joseph Lovell's offer to put at the disposal of the Society a complete series of Meteorological Observations made at the different military stations of the United States, was referred to A. D. Bache, Hembel, and Col. Long.

A committee was appointed "to make astronomical observations and to collect such obs. as may be made by others, during the year and to report the same to the Society;" \$200 appropriated for their use: A. D. Bache, Roberts, Lukens.

Circular of the R. I. H. S. considered and laid on the table.

New members elected: Prosper, Count Balbo, of Turin; Hyacinth Carena, of Turin; Louis Philip [sic], King of the French; Thos. P. Jones, M.D., of Washington, D. C.

1831. Feb'y 4. (Present, 16. DuPonceau in the Chair.)

Committee on Lea's papers reported them for publication. Accepted.

Donations from seven sources.

Memoires de l'Academie des Inscriptions: The Librarian reported that a complete set in 46 volumes had been presented to the Library by Messrs. Duponceau, Vaughan, Strickland, Chapman, Kane, A. D. Bache, Moore, Roberts, Wetherill, Short, T. Biddle, Hewson, N. Biddle, Morgan, Horner, Lea, Laroche, Lorich, Hopkinson, members.

Rafn's letter of acknowledgment for membership was read.

Hassler's letter on the proposed observation of the Solar Eclipse of the 1st inst., at Washington, was read; Prof. Bache, for the Committee on the Eclipse, reported that Mr. Gummere would coöperate with the Committee in observing; and that the Trustees of the University had placed at their disposal astronomical apparatus. Messrs. Hassler and Gummere were added to the Committee.

Dr. Chapman was added to the Committee on the Revision of the Laws.

1831. Feb'y 18. (Present, 22. DuPonceau in the Chair.)

Mr. Lea's paper of May 7th, 1830, was referred to A. D. Bache, Nicklin, Pickering.

A list of the heads of 60 families, original settlers on 60 farms in Albemarle county, with their respective ages, from a letter of Mr. Coles to Mr. Vaughan, was read.

The President's letter of notification to Louis Philip [sic] was read.

The Curator's were authorized to extend to G. W. Featherstonehaugh the use of the geological specimens in the Cabinet.

"Observations of the Solar Eclipse of Feb. 12," verbally communicated by Prof. Bache.

1831. March 4. (Present, 23. DuPonceau in the Chair; Del Rio, Quadrado, Long, and others.)

1831.

Donations from seven sources.

A book ordered in which all specimens loaned from the Cabinet should be entered by the Librarian.

1831. March 18. (Present, 18. Duponceau in the Chair.)

Committee on Lea's paper of May 7, 1830, reported in favor of publication. So ordered.

Donations from Harris, Vaughan.

Letter of acknowledgment for donations from the French Institute.

"For purchasing works not now in the Library," by Mr. Ord, with the cooperation of Messrs. Vaughan, Nicklin, and Delancy, \$200 were appropriated.

Committee on the Hall was directed to report on the expediency of having the roof renewed, and on the most secure plan for doing it.

[The minutes of the last three meetings are repeated verbatim on the following pages, in a different handwriting.]

1831. April 1. (Present, 23. DuPonceau in the Chair.)

Donations from eight sources.

Publication Fund: The Publication Committee reported a plan, to carry out which it was

Resolved, That the 1st and 2d volumes of the Transactions (N. S.) be placed at the disposal of the Committee, and that the receipts from the sale of said volumes, commencing from the present year, be appropriated in aid of the Publication Fund.

Hall Committee instructed to have the roof renewed in the course of the ensuing summer.

1831. April 15. (Present, 18. DuPonceau in the Chair.) Donations from eight sources.

Schweinitz's "Synopsis Fungorum in America" was presented and referred to Pickering, Griffith, Featherstone-

haugh.

New members elected: Henry Vethake, Prof. Nat. Phil., Princeton, N. J.; Samuel L. Southard, of New Jersey; Edward Everett, of Massachusetts; Louis McLane, of Delaware; William C. Rives, of Virginia; Alexander Everett, of Massachusetts.

1831. May 6. (Present, 18. Duponceau; Chapman, F. Bache, Biddle, Griffith, Lea, Vaughan, A. D. Bache, Quadrado, Nichols, Hays, Moore, Wood, Pickering, Nicklin, Del Rios, Harlan, Hare.)

Poinsett's Collection: "The Curators laid before the Society a Catalogue of the Mexican minerals and Antiquities presented by Mr. Poinsett and Mr. Keating, prepared for the use of the members, which was ordered to be placed on file."

Donations from six sources, for the Library; and from Hon. Henry Middleton, for the Cabinet.

Laurence Martini's thanks for election was read.

1831. May 20. (Present, 21. DuPonceau in the Chair.)

Ed. Everett's letter of acknowledgment was read.

Donations of books from three persons.

A supplement to the paper of May, 1830, by Mr. Lea was referred to the same committee.

Committee on Synopsis Fungorum reported in favor of its

publication.

Dr. Hays exhibited the specific differences between the Mastodon and Dr. Godman's fossil, in a paper entitled "Specimens of inferior maxillary bones of Mastodons in the Cabinet of the A. P. S., with remarks on the genus of Godman." Referred to Lea, Pickering, Wetherill.

A case of Lithotrity in Kentucky, performed by Dr. Alvan

Smith, was described by Dr. Coates.

1831. June 14. Special Meeting on account of the death of Vice-President Zaccheus Collins. (Duponceau; Hopkinson, Chapman, Hembel, Harris, Wharton, Harlan, Vaux, Wetherill, Lorich, Ware, Vaughan, Hays.)

Resolved, To meet at 6 o'clock P. M., at No. 22 N. Second street, opposite the dwelling and proceed thence in a body to the funeral.

1831. June 17. (Present, 25. DuPonceau in the Chair; Featherstonehaugh, Morgan, Del Rio, Quadrado, and others.)

Committee on Hay's paper reported in favor of publication.

Committee on Lea's Supplement reported favorably.

Donations from various sources; for the Cabinet from Dr. Mease.

A legacy of \$500 (with several volumes of the Massachusetts Spy) was announced by a letter from the executor of Isaac Thomas of Worcester, Mass., payable April 4, 1831, "to be added to the funds of the Society, or otherwise disposed of as the Society may direct."

A biographical sketch of DeWitt Clinton by Wm. Rawle,

was presented and filed away among the archives.

Mr. Rawle was appointed to prepare an obituary notice of Z. Collins.

The late Wm. Priestman's Library: A committee of Featherstonehaugh, Hopkinson, Duponceau, and Vaughan, was appointed to examine the books and purchase, not exceeding \$300.

1831. July 15. (Present, 35. DuPonceau in the Chair; Quadrado, Delancey, Long, Meigs, Ware, Jackson, N. Biddle, Lukens, Del Rio, Horner, Nicolls, and others.)

Committee on Priestman's Library reported the purchase of \$70 of books.

Donations from twelve sources.

"On irradiation," by Dr. B. F. Joslin, of Schenectady, was read and referred to Pickering, A. D. Bache, Lukens.

New members elected: Martin Fernandez Navarrete, of Madrid; Francisco Antonio Gonzales, of Madrid; John James Audubon.

1831. Aug. 19. (Present, 15. DuPonceau in the Chair.)
Donations from eight sources.

On blasting rocks by galvanism: "Dr. Hare communicated a new application of galvanic ignition to the blasting of rocks, by which through many charges coöperating in one large masses may be thrown off instead of pieces of inferior size and irregular shape with a much greater security He had been prompted by a Patent process of Moses Shaw for using mechanical electricity for coöperative blasts."

"On the mode of building houses for convenience and comfort and against the risks of conflagration," addressed to the Society by Charles Varli, C. E., was read and referred to F. Bache and Lukens.

1831. Sept. 16. (Present, 18. Hopkinson in the Chair.)

New member: Audubon, &c.

Donation from fourteen sources.

Letter of thanks from the Lisbon Academy.

A set of the casts of the mammoth bones in the Cabinet was ordered to be given to the Academy Natural Sciences of Philadelphia.

1831. Oct. 7. (Present, 19. Chapman in the Chair.)

Donations from twenty-two of the members: Audubon's Birds of North America, and Ornithological Biography.

Committee on Observations reported observations on the Solar Eclipse of February 12, 1831, from the following persons and places: Joseph Roberts, of the Friend's Observa-

tory, Philadelphia; Sears C. Walker, near the same place; John Gummere, at Burlington, New Jersey; Prof. James Kenwick, New York; Robert Treat Paine, at Malabar Light House, Massachusetts; F. R. Hassler, President's House, Washington City; Prof. R. M. Patterson, University of Virginia; Prof. A. D. Bache, at the Friend's Observatory, Philadelphia; all of which were directed to be published in the Transactions.

The offer of M. Thomas, executor of Isaiah Thomas, to pay the legacy at once on a discount was accepted, and the Treasurer instructed accordingly.

The death of Dr. N. Collin, an ancient member, was announced, and Mr. Lorich appointed to prepare an obituary notice.

That of Sol. W. Conrad also was announced, and Dr. Horner was appointed.

That of Wm. Jones was also announced, and Mr. Kane was appointed.

Donations were made to the Library by seven persons.

An original Plan of the Siege of Yorktown, made by Major Bauman, New York Artillery, was presented by Richard Randolph, of Virginia.

A letter from the Academy Natural Sciences, Philadelphia, acknowledged the receipt of the "Megallonic casts."

Committee appointed to ascertain of what members Necrological notices had not been presented, and to take measures to procure them: Horner, Vaux, Vaughan.

Mr. Keating was permitted to borrow the Committee's report on Major Long's project of an improved lock.

1831. Oct. 21. (Present, 24. Duponceau in the Chair.) Donations from five persons.

Mr. Lorich's obituary notice of Dr. Collin was read, and referred to Hays, Keating and Mitchell, to report on its publication in the Transactions.

The death of Reuben Haines was announced, and D. B. Smith appointed to prepare an obituary notice.

New members elected: Hartman Bache, Major United States Topographical Engineers; Baron Larrey, of Paris.

1831. Nov. 4. (Present, 17. Duponceau in the Chair.)

Committee on Joslin's paper reported it for publication.

Committee on Lorich's obituary notice of Collin reported it for publication.

Donations from five persons.

On Incrustations in Steam Boilers, using salt water: Mr. Strickland read a letter from Mr. Hartley, an eminent English engineer, recommending saw dust or chippings of teak, to hold the salt suspended by the gum evolved by it in the process of boiling.

Prof. Bache said that potatoes had been used in this and

other countries.

1831. Nov. 18. (Present, 12. Hopkinson in the Chair.) Donations from seven sources.

Muhlenberg's Descriptio uberior graminum (in MS.) was deposited by the heirs of Z. Collins.

Megalonyx: Donation to the Cabinet of 14 casts of bones of it, described in Vol. VI, Journal of the Academy of Arts and Sciences.

Major H. Bache acknowledged by letter the honor of membership.

1831. Dec. 2. (Present, 23. DuPonceau in the Chair; Major Bache, &c.)

Donations from nine sources, mostly individuals.

Necrological notice of Sol. Conrad was read by Dr. Horner.

W. C. Rives acknowledged from Paris the honor of membership.

"Description of the Tetracaulodon bone belonging to the

University of Virginia," a supplement to his paper of May last, was presented by Dr. Hays, and referred to the same Committee.

Mr. Keating returned the borrowed report on Long's Lock.

Magellanic Premium: No application reported.

A Catalogue of the books purchased for the Society in Paris by him, with their prices, was presented by Mr. Ord. The purchases were approved, and thanks voted to Mr. Ord for the diligent manner, &c.

Jefferson's Library: Committee to purchase books for the Society at the auction; DuPonceau, Meredith, Ord.

Dr. Hays having announced that he had now in his possession the best collection of bones of the mastodon known to be in existence, belonging to different museums, he was invited to exhibit them at the next meeting. Dr. Hays and the Curators were constituted a Committee to consider the propriety of making casts.

1831. Dec. 16. (Present, 18. DuPonceau in the Chair.)

Committee on Hay's description of "the Tetracandolan" [sic] bone belonging to the University of Virginia, reported it for publication.

Books amounting to \$8.40 reported purchased from Jefferson's library.

Donation to the Library from T. F. Gordon.

Dr. Hays exhibited and explained the Mastodon bones. Dr. Harlan described the Mastodon bones in the various museums of the U.S.

Treasurer presented his annual report. Referred.

1832. Jan'y 6. (Present, 9. Dr. Meigs in the Chair; Harlan, Strickland, Raguet, Keating, Vaughan, Wood, Nicklin, Major Bache.)

Annual Election report:

ELECTION OF OFFICERS.

President—DuPonceau.

Vice-Presidents-Chapman, Hopkinson, Ord.

Secretaries-F. Bache, C. C. Biddle, Kane, Keating.

Councillors for three years-Hembel, Rawle, Hare, Meigs.

Councillor for two years-Mease.

Curators-Wetherill, Griffith, Lea.

Treasurer and Librarian-Vaughan.

Donations from four sources.

Treasurer presented his accounts examined and approved by the Finance Committee: Balance in favor of the General Fund, \$499.94; balance Magellanic Fund, \$295.24; balance Rittenhouse Fund, \$52.15. The two last and a considerable portion of the former to be invested by the Committee of Finance—the balances having arisen from U. S. stock paid off.

1832. Jan'y 20. (Present, 37. Hopkinson in the Chair; Raguet, Morgan, Long, Quadrado, Del Rios, A. D. Bache, Jackson, McEwen [sic], and others.)

Committee on procuring Mastodon Casts reported, and were authorized to the extent of \$135.

Antique Vases found at Golconda Cave, in the State of Illinois, and at the Falls of Kentucky, and in Quilca, in South America; the collection was presented by Dr. Harlan.

A Bust of J. Q. Adams, cast in iron, at Winsor Furnace, Bucks Co., Pa., was presented by C. J. Wetherill.

Donations of books from two persons.

Lithographic print of Judge Marshall was presented by Mr. Rawle on behalf of the Bar of Philadelphia.

Insurance on the property to be increased by the Finance Committee.

John Vaughan elected Librarian.

Standing Committees appointed:

Hall-Strickland, Vaughan, Kane.

Finance-C. C. Biddle, Vaux, Moore.

Publication-Dr. F. Bache, Lea, Griffith.

Annual Appropriations: For the Hall, \$150; for periodicals, \$200; for binding, \$75: for contingent expenses, \$150.

New members elected: Dr. Julius T. Ducatel, of Baltimore; Henry D. Gilpin, of Philadelphia; Dr. John P. Hopkinson, of Philadelphia; Dr. John Bell, of Philadelphia; Dr. Robley Dunglison, of the University of Virginia; M. Steen Billé, Charge d'Affaires of his Danish Majesty; Thomas Sergeant, of Philadelphia.

1832. Feb'y 3. (Present, 21. Ord in the Chair; Gilpin and Bell introduced.)

A Peruvian ewer of antique form found at Huaco, Montlipo, 16 leagues from Lambayeque, presented by Frederick Brown; collection of minerals from Cerro di Pasco mines, in Peru, presented by Dr. Mease.

Donations of books from three sources.

Rawle's Necrological notice of Zaccheus Collins was read by the Secretary, and referred to Kane, Harlan, Pickering.

Letters of thanks for election from Gilpin, Dunglison, Sergeant and Billé were read.

"A grammatical sketch and Vocabulary of the Tagalo language;" also, "An account of Manilla," were presented by Dr. Mease, and referred to Kane, Duponceau, Tanner.

Audubon's discovery of a new Ibis (Tantalus fusens) in Florida, was read by Dr. Harlan from a letter. Dr. Harlan also read from letter of J. Bachman, of Charleston, some general observations on the habits of animals.

The extensive robbery of medals from the King's Library at Paris, Nov. 5 or 6, 1831, was communicated to the Society by a letter from Con. Gen. Dannery, inviting the Society to coöperate for their recovery.

1832. Feb'y 17. (Present, 22. Chapman in the Chair; Sergeant introduced.)

Committee on Obituary notice of Collins reported in favor of publication.

Donation of books from C. Babbage.

A Collection of Indian Antiquities, minerals and shells, from Peru, California, the Mulgrave and islands, the Sandwich islands, Chili, Mexico, and the N. W. coast of America, was presented by Sterne Humphreys, U. S. Navy, with an explanatory communication, through Mr. Frederick Brown.

"On the effects of Phosphorus on the human system, with experiments on animals," by Dr. Harlan, was read by him.

Atheneum project to provide an edifice for the accommodation of the several Libraries and Cabinets of Philadelphia: Letter received and committees appointed to meet the committee of the Atheneum: Nicklin, Ord, Kane.

Centenary Celebration of Washington's Birthday: The Secretary was instructed to acknowledge the receipt of the communication from the Committee of Arrangements in respectful terms.

Mr. Nicklin's request for permission to withdraw from the Cabinet for examination Lieut. Humphrey's shells presented this evening, was granted.

1832. March 2. (Present, 34. Ord in the Chair; Dr. Hopkinson introduced. A. D. Bache appointed Secretary, pro tem.)

Committee on By-Laws would be ready to report but for the absence of one of its number from the city.

Donations to the Library from four persons.

"Description of a new species of fresh water Tortoise from India," by Dr. Harlan, was deposited by the author in the archives.

Letters of thanks were received from MM. Navarrete and Gonzales.

R. H. Hobson's request to borrow Sully's portrait of Duponceau for a mezzotint copy was granted.

1832. March 16. (Present, 23. Judge Hopkinson in the Chair.)

Donations from four persons and a society.

Invention of Steam Propulsion: "Mr. Kane deposited (on behalf of Benjamin Say) the original deed between John Fitch and sundry citizens of Philadelphia, of 9 Feb. 1787, creating a joint stock company for propelling vessels through the water by the agency of steam."

"Observations on the Naiades and des. of new species by

Mr. I. Lea."

1832. April 6. (Present, 16. Chapman in the Chair.) Donations from six persons.

1832. April 20. (Present, 36. Hopkinson in the Chair.)

Donations from four sources. A portrait of Dalton was presented by Dr. C. Mifflin, of Philadelphia.

Dr. J. T. Ducatel, of Baltimore, acknowledged the honor, &c.

New members elected: Theodore Lorin, of Paris; Dr. Hugh L. Hodge, of Philadelphia; Col. J. J. Abert, of Washington; Juan José Martinez, of Spain; the Duke of Sussex.

1832. May 4. (Present, 19. Ord in the Chair.)

Dr. Martinez acknowledged the honor, &c.

Donations from eight sources.

A communication from the Royal Academy, Lisbon, was directed to be placed in the Library.

Franklin's Portrait: Sully's request for permission to make a copy for the West Point Academy was granted.

The Indiana Historical Society's request for a copy of the PROC. AMER. PHILOS. SOC. I. XI. PRINTED OCTOBER 2, 1884.

Transactions Historical Committee American Philosophical Society was granted.

The Librarian was authorized to purchase the wanting volumes of the Memoirs of the Institute and Academy not over \$120.

1832. May 18. (Present, 22. Chapman in the Chair.)

Donations from nine sources.

Letter of Col. Abert acknowledging the honor, &c.

1832. June 15. (Present, 20. Duponceau in the Chair.)

Donations from fourteen sources.

Dr. H. L. Hodge acknowledged the honor of membership. Communications were read from Rev. N. Murray, of Wilkes-Barre, and Col. Acosta, of Columbia.

"A memoir on Goitre by Mr. Boussingault of Columbia was presented by Col. Acosta and an abstract of it drawn up by a member read."

Heeren's letter to Duponceau respecting Hodgson's Berber memoir.

1832. July 20. (Present, 22. Duponceau in the Chair.)

Donations from eight persons and one society.

"On the Mounds and other antiquities of Peru," by Dr. Burrough was read by title, and postponed until after the election of members. After being read it was deposited in the archives.

The donation of bones received from Mr. Bry, of Arkansas, was referred to Harlan, Pickering, Horner.

New members elected: E. S. Bring, Professor in University, London.

1832. Aug. 17. (Present, 7. Duponceau in the Chair; Keating, Vaughan, Mease, Lorich, Pickering, Sergeant.)

Donations from five persons, and for the Cabinet from two.

Lorin's letter of thanks was received.

"Observations of the temperature of the ocean near Icebergs," by Capt. Ch. Dixey in a letter to R. Vaux, was referred to Pickering, Mease and Bache.

Heckewelder's paper on the names given to rivers, &c., by the Delaware Indians, April 5, 1822, was referred to Duponceau, Loring, Keating.

Index to the four Vols. Transactions, New Series: Publishing Committee to inquire into the expense and report.

1832. Sept. 21. (Present, 19. Duponceau in the Chair.)

Committee on Heckewelder's paper reported: report accepted.

Committee on Bry's fossil bones reported by letter and were discharged. The bones were then referred to Dr. Harlan for description.

Donations from fourteen public and private sources.

The thirty-two Vols. of the Memoirs of the French Academy and Institute, wanting in the Library of the American Philosophical Society, were reported received by the Librarian.

Letters of acknowledgment for Transactions Vol. IV, Part 1 were received.

A letter from Say to Vaughan was read, offering to put certain papers on North American Insects at the disposal of the Society; the Secretary to request Mr. Say to make the communications.

American Antiquarian Society's request for exchanges of duplicates accepted.

1832. Oct. 5. (Present, 16. Duponceau in the Chair.)

Donations from nine persons.

Cabinet: from Audubon eleven species of marine shells from East Florida.

Map of Pennsylvania, New York and Delaware, of 1749, by Lewis Evans. Dr. Mease called attention to Lewis's marginal note "that all great storms begin to leeward," and to his theory that this earth was made at the creation from the ruins of another.

1832. Oct. 19. (Present, 22. Duponceau in the Chair.)

Donations from ten persons.

Harlan's report on Bry's fossils, and on others presented to him by N. A. Ware from the junction of Yellowstone and Missouri, were referred to Morton, Hembel, Horner.

Obituary notice of R. Haines was read by D. B. Smith, and filed.

Prof. Bache gave evidence that Franklin had observed the south-west origin of the American north-east storms in 1743, six years before the publication of Lewis's map, quoted by Dr. Mease at the last meeting.

Election of new members postponed, on account of the absence of their proposers, until next regular election day.

1832. Nov. 2. (Present, 24. Duponceau in the Chair.)

Committee on Harland's notice of fossil bones, &c., reported it for publication.

Account of the dissection of a Python, by Dr. Hopkinson, was referred to Harlan, Pickering, Horner.

"Description of new N. A. Insects," by Mr. Say, was referred to Pickering, Harlan, Horner.

The invitation of a Committee of all the learned societies of Europe to erect a monument to Cuvier, was referred to Chapman, Vaux, Kane.

1882. Nov. 16. (Present, 18. Duponceau in the Chair.)

Donations from four persons.

"On the Diurnal Variation of the Needle," by A. D. Bache, was referred to Hembel, F. Bache, Coates.

1832. Dec. 7. (Present, 22. Duponceau in the Chair.) Committee on A. D. Bache's paper (diurnal variation), reported it for publication.

Committee on Say's paper on insects reported it for publi-

cation.

Committee on Dixey's letter for its partial publication; so ordered.

Donations from five sources. A MS. Chart of the coasts of Cuba was presented by J. J. Martinez, who had surveyed it in 1830.

J. Francis Fisher's request to describe the Society's American medals was granted.

1832. Dec. 21. (Present, 15.)

Committee on Hopkinson's paper (Nov. 2) reported it for publication.

Donations from six persons.

An easy way of replacing the prolapsed umbilical cord was described by Dr. Meigs.

1833. Jan'y 4. (Present, 18. Duponceau in the Chair.) Annual election of officers reported.

ELECTION OF OFFICERS.

President—Duponceau.

Vice-Presidents-Chapman, Judge Hopkinson, Ord.

Secretaries-F. Bache, Kane, A. D. Bache, Meigs.

Curators-Wetherill, Griffith, Lea.

Councillors for three years—W. Short, , C. C. Biddle.

Committee on accounts reported: Balance on account of Rittenhouse Fund, \$270.37; Magellanic Fund, \$1098.32; Extra Magellanic Fund, \$313.57.

The Cuvier Statue Committee reported that they had collected the sum of 11,000 (so written, but corrected in lead pencil to 1000) francs, "which they present to the society to be transmitted to the President of the French Academy."

Donations were received from three societies and seven persons.

Mr. Vaughan read a letter from Mr. Nagy, giving an account of the Hungarian Academy. The President was requested to reply reciprocating offers of intercourse. Transactions American Philosophical Society to be sent to the Hungarian Academy.

1833. Jan'y 18. (Present, 32. Duponceau in the Chair.)

The President reported that he had written to Mr. Nagy. Donations received from Dr. Pancoast.

Society of Antiquaries acknowledged receipt of Transactions IV, Part 2.

Standing Committees:

Finance—C. C. Biddle, Vaux, Moore, Ord.

Building-Strickland, Vaughan, Kane.

Publication—F. Bache, Lea, Griffiths.

Librarian elected-Vaughan.

Denon's Egypt procured by Mr. Vaughan, to be purchased from him.

Special vote of thanks to Mr. Vaughan "for the pains he had taken in relation to Denon's Egypt."

New members elected: Prof. Bujalsky, of St. Petersburg; Marmaduke Burrough, M.D., of Philadelphia; M. W. Baldwin, of Philadelphia; Edwin James, M.D., of Albany; Moncure Robinson, of Virginia.

1833. Feb'y 1. (Present, 22. Duponceau in the Chair; Baldwin, &c.)

Donations from six persons.

Letters from the Bath Society and Royal Irish Academy. Nagy's letter respecting telescopes made by Ploeffel, of Vienna.

Prof. Bache showed that Brewster's observations on the apparent conversion of cameos into intaglios, and vice versa had been anticipated by Rittenhouse in 1780; see Transactions American Philosophical Society, Vol. II, O. S.

Letter received from M. Dantes, of Lisbon.

Committee to examine Lea's paper on Naiades (March 16, 1832): Nicklin, Bache, Pickering.

1833. Feb'y 15. (Present, 8. Nicklin in the Chair; F. Bache, Meigs, Vaughan, Hayes, McEwen, Pickering, H. Bache.)

Donations from one society and four persons.

Moncure Robinson made acknowledgments for his election.

Dr. Beaumont's experiments on Digestion in the case of an individual with a fistulous opening of the stomach, described in a letter from Dr. Dunglison to Dr. Hays, was communicated verbally.

1833. March 1. (Present, 9. Duponceau in the Chair.) Donations from the Royal Society of Edinburgh and five persons.

Mr. James's letter of thanks for election was read.

Acknowledgment and envoy from the London Zoölogical Society.

Dr. Dunglison's letter to Dr. Hays was read; the subject was a Canadian, Alexis San Martin, wounded in the stomach in 1822.

"On the numbers and education of the Blind in Europe and the U. S.," in a letter from Dr. Howe, of Boston, was read by Mr. Vaughan.

1833. March 15. (Present, 15. Judge Hopkinson in the Chair.)

Committee on Mastodon Casts reported that satisfactory moulds had been made. Six sets of casts authorized.

Donations of books from two societies and two persons.

Librarian authorized to subscribe for Les Annales des Sciences Naturelles from last January, the price of a complete set to be inquired about. 1833. April 5. (Present, 23. Duponceau in the Chair.)

Committee on Nichols's Observations on the solar system recommended it to be filed away in the archives.

Committee on a Revision of the Laws promised to report at the next meeting.

Donations from four sources and letters from three societies.

"The Secretary of the R. Soc. in behalf of the Duke of Sussex acknowledged the honor done him by his election to membership."

Resolution of Dr. Mease that as the Agricultural Society had ceased to meet, it be in future exempt from rent by the American Philosophical Society was referred to the Hall Committee.

Ordered: "That the following words be added to the annunciation of the next meeting: And that the Chair will be taken at that hour."

Dr. Mease was allowed to withdraw for a time his "Account of Manilla" from the hands of the committee.

1833. April 19. (Present, 38. Duponceau in the Chair.)

Committee on Mr. Lea's paper and supplement reported it for publication.

Committee to Revise the Laws made a final report: The Laws and Regulations were read; laid on the table to be considered at the next meeting, and ordered to be printed meanwhile for the use of the members; by a Committee: Lea and Nicklin.

Committee on Mease's resolution respecting the Agricultural Society (April 5) reported it inexpedient at present. Committee discharged.

Donations from three societies and four persons.

New members elected: M. I. Labouderie, &c., of Paris; M. Charles Nagy, of Pesth, Hungary; Jacob Randolph, M.D., of Philadelphia; Joshua Francis Fisher, of Philadelphia;

Gouverneur Emerson, M. D., of Philadelphia; Henry C. Carey, Philadelphia.

1833. May 3. (Present, 36. DuPonceau in the Chair; Fisher, Emerson, Carey, introduced.)

Committee to print the project of proposed By-Laws reported that copies had been distributed to all the members.

Dr. Randolph's letter of thanks for membership was read. Royal Irish Academy acknowledged receipt of Transactions, Vol. IV, Part 2.

Donations of books from seven persons.

Mr. Nicholls was permitted to withdraw from the archives his paper on the Solar system.

Resolved, That the proposed By-Laws be read by sections.

Chapter I, Sec. 1. Mr. Keating's amendment was 1st: To strike out all after the second line, and insert the words: 'of whom not more than 100 shall at the time of their election be foreigners, non-residents of the United States." Dr. Hare's amendment "to strike out the first section" was lost.

Dr. Bache's amendment to strike out all after "than," and insert "of whom not more than 100," fc., as above, was carried.

Adjourned to a special meeting on Wednesday next.

1833. May 8. (Present, 31. Special Meeting. Duponceau in the Chair.)

The President gave opinion that Section 1 required a vote upon it as a whole, and that a two-thirds vote was necessary.

Mr. Nicklin's amendment "to strike out all after '50'" was lost.

Dr. Hare's resolution to strike out the whole of the first Section with a view to propose a certain amendment in the fifth section was lost. Then his motion to adopt the first section, as proposed by him at the last meeting, was lost.

Dr. Meigs' motion, That the Committee's draft should

be considered "each article in succession, and after amending, striking out, or adopting each section by a two-thirds vote, the question be taken on the whole draft," was lost. Adjourned.

1833. May 17. (Present, 27. DuPonceau in the Chair.) Donations from fifteen sources.

Prof. Bache's note to be attached to his paper on Diurnal Variation, was referred to the same Committee.

Mr. Kane's Order of Business adopted:

1. The Draft of Laws shall be considered by sections; 2. A section being under consideration, it shall be in order to move that it be amended, stricken out, committed, or that the consideration thereof be postponed; 3. And such motions shall be decided by the votes of a majority of the members present; 4. The section having been considered, a question shall be propounded by the Chair, as follows: Shall this section stand as part of the proposed chapter; 5. And this question shall require a vote of two-thirds of the members present; 6. All the sections of a chapter having been gone through, new sections may be proposed by any member; 7. And such proposed new sections shall then be considered as if they were part of the original draft; 8. The Chair shall then propound the question on the whole chapter as follows: Shall this chapter form part of the proposed laws; 9. And this question shall acquire for its affirmative decision a vote of two-thirds of the members present.

Dr. Hays' Amendment was lost (to strike out all after "fifty," and insert "of whom not more than 100," &c., May 3).

Mr. Kane's Amendment to strike out the first section and all the second section after the word "only" in the second line, and insert "at the time of electing the officers on the first Friday of January in year" [sic], amended by Dr. Bache's substitute of "at the stated meeting" for "at the time of electing officers," was adopted.

The question then being, shall the first section be struck out, and the second section thus amended be adopted, was decided by an unanimous vote in the affirmative; also the third, fourth and fifth sections with verbal amendments; also the sixth section by striking all after the word "candidates;" also the seventh section after incorporating it with

the sixth; also the eighth section after striking references to Section 1; also the ninth after striking all after the word "shall" in the fourth line, and substituting "have been disposed of;" Sections 10 and 11, unanimously struck out; Section 12 unanimously adopted; Section 13 was amended by inserting after "shall," "be presented to the presiding officers and then;" Section 14 and 15 adopted; Section 16 postponed; Section 17 amended by substituting "may" for "shall" in the second line, and "an" for "a brief," was adopted by a two-thirds vote; Section 18, amended by striking all after "members" in the fourth line, was adopted by a two-thirds vote. Adjourned to the following Friday; notice of the continuance of the order of business to be given.

1833. May 24. Special Meeting. (Present, 25. DuPonceau in the Chair.

The 16th [sic] Section being under consideration, was amended by substituting "class themselves" for "be classed" in the second line, by inserting, "2. A committee of Mechanical and Physical science. 3. A committee on "Natural History" instead of "Natural Sciences." "4. A committee on Medical and Surgical Science," and some verbal alterations; unanimously adopted.

Dr. Mease's additional Section to Chapter I, "Such foreign members as shall omit for three successive years to communicate with the Society by letter, memoir, or the presentation of some work, shall cease to be members thereof," was lost.

Chapter I was then as a whole unanimously adopted.

Chapter II with eight Sections (Section 3 verbally amended), adopted.

Chapters III, IV, V, VI, were considered, first sectionally, then wholly, and unanimously adopted without amendment.

Chapter VII: Title of Section 1 amended by introducing the words "Officers and." Section amended by striking out

"counsellors and other officers forming the council of the society," and inserting "officers and council;" and by substituting for "hold stated meetings," the words "statedly meet together." Sections 3, 4, 5, were verbally corrected, and the whole Chapter unanimously adopted.

Chapter VIII, Sections 1, 2, 3, 4, 5, 7 and 8 were adopted; Section 6 being transferred to Chapter VI, as pertaining to the duties of the Treasurer.

Adjourned to the following Friday to continue the business.

1833. May 31. Special Meeting. (Present, 21. DuPonceau in the Chair.)

Chapter IX, Section 1, amended by striking out "at six o'clock in the evening," and inserting after "seven o'clock" in the fifth line "in the evening;" Section 5 by substituting "11" for "10" in the first line, and "10" for "9" in the second line; Sections 2, 3, 4, 6, adopted, and then the whole Chapter unanimously.

Chapter X, Section 1, adopted; Section 2 amended by striking out the second paragraph; in place of which a new section (proposed by Dr. Hays) was adopted: "But if the author do not approve of the corrections, abstract, or extracts reported by the Committee, he shall be at liberty to withdraw his paper; Section 4 adopted; Section 5 postponed to consider Prof. Bache's substitute; which being divided, its first paragraph was adopted: "The order in which papers are read before the Society shall determine their places in the Transactions, priority of date giving priority of location;" Section 6 struck out unanimously; Section 7 adopted; Section 8 amended (by Kane and Delancey): "Immediately after the meeting on the first Friday of January, a list of communications and donations made to the Society within the year, with the name of the Authors or Donors, and a catalogue of the officers and members shall be published in some of the newspapers or periodical journals of Philadelphia; and a similar list shall also

be inserted in the Appendix to the Transactions." The whole Chapter thus amended was then adopted.

Chapter II, Sections 1, 2, 3, 4, 5, 6, 8 and 9, adopted; 7 amended by inserting "unless otherwise directed" after "chosen" in the first line; 10 amended by striking out "all" at the end of the first line; Section 11 amended and adopted, reading "The names of the committees, the time of their appointment, the matter of business committed to them, the time at which they are to report and the time at which the final report is presented, shall be entered by the secretaries in a book to be provided for that purpose."

Chapter XII was adopted, and the business adjourned again for another week.

1833. June 7. Adjourned Meeting. (Present, 23. Duponceau in the Chair.)

Chapter XIII, Sections 1, 2, 3, were adopted. For Section 4 the following was substituted: "The laws contained in the 13 foregoing chapters shall be in force from and after the 31st day of Dec. 1833; and".... "ordinances heretofore made.... except.... Chapter 3 of the laws passed Feb. 3, 1769, entitled 'Officers and manner of their election,' are hereby repealed."

Resolved, That the laws as amended be engrossed for the final adoption of the Society at the next stated meeting. Com. of April 19 instructed to have them printed, A. D. Bache being added to it.

The Rules of Order were then considered by Sections, and the introductory clause and Sections 1, 2, 3, 4, 5, 6, 7, adopted unanimously. Section 8, Mr. Kane moved to amend to read: "No motion to reconsider a vote of the Society shall be in order unless the same be moved and seconded by members who were of the majority thereon, nor unless the same be presented at the meeting at which the first vote was taken," pending discussion adjourned.

1833. June 21. (Present, 20. DuPonceau in the Chair.)

Committee reported that copies of the Amended Laws had been distributed.

Donations of books from thirteen sources.

Donations to the Cabinet from Mr. Burroughs, of India, and J. Dwight, of Boston.

Dr. Hays's request to be permitted to draw a mastodon tooth for his memoir in the Transactions was granted.

Rules of Order postponed to take up the Engrossed By-Laws.

Engrossed By-Laws adopted unanimously without discussion.

Rules of Order than discussed: Mr. Kane's amendment was negatived, and the Section 8 adopted as originally reported; Section 9 was struck out; Sections 10, 11 and 12, were adopted; Section 13 was amended by striking out "if it can be done without any expense to the Society."

Committee on printing the laws were instructed to print 500 copies of the Laws, the compact of 1769, the "Fundamental laws,—and the charter of the laws;—with authority to make such changes in the phraseology not affecting the sense as they may consider necessary."

Treasurer authorized to give a copy of the Catalogue of the Library to Andover Seminary.

Committee of Publication reported in favor of printing an Index of the four Volumes of the Transactions. Power granted to the Committee.

1833. July 19. (Present, 19. DuPonceau in the Chair.) Committee reported Laws and Appendix printed.

Donations from three sources. Letter from Quetelet read. "Galvanic experiments on a Negro hung at Winchester, Va., by Dr. J. R. W. Dunbar, was read.

New members elected: Henry R. Schoolcraft; Viscount Santarem, and Titian R. Peale, of Philadelphia.

1833. Aug. 16. (Present, 15. Duponceau in the Chair; Dr. Peale introduced Del Rio.)

Committee on printing the laws reported finally and was discharged.

Donations from twelve sources. Letter from the Entomological Society, and another from the Geological Society of France.

1833. Sept 20. (Present, 17. Duponceau in the Chair.)

Donations from sixteen persons and four societies.

The Mithridate purchased of the Librarian of the Foreign Library Society by Mr. Vaughan was approved. Letter to the President from the American Sentinel. Letter from Mr. Darley, offering on certain conditions a Meteorological Journal. Letter of acknowledgment from the Zoölogical Society. Letter from M. Nicollet, of Paris, now in Georgia, recording his progress in scientific observations in the Southern States. Darby's papers deposited with Mr. Vaughan, were ordered to be returned with proper explanations.

1833. Oct. 4. (Present 14. Duponceau in the Chair.)

Donations from seven sources. Letter from H. R. School-craft, acknowledging receipt of diploma of membership, and enclosing the required fee of admission.

Librarian authorized to distribute to Foreign Members the new Laws.

"Alphabet of Arithmetic," a printed document, with a letter, was referred to A. D. Bache and McEwen.

Sets of the Mastodon casts to be sent to the Paris Garden of Plants, and to the London Geological Society. The Curators were requested to report in relation to the distribution of Casts.

1833. Oct. 18. (Present, 25. DuPonceau in the Chair.) Committee on the "Alphabet of Science" [sic], reported progress; ditto, the Committee on the business of distributing casts.

Donations of books from three persons and one society. Drawings of Gigantic Fossil Plants found in Alabama, executed by Dr. W. H. Harrington, of Lagrange, with his letter of explanation, was presented for the Cabinet by Dr. J. K. Mitchell.

"On the Longitude of the Hall of the American Phil. Soc.," by Mr. Sears C. Walker, was referred to A. D. Bache, Bancker, H. Bache.

"On the Portughese Language," and "On the Money System of Portugal," by M. Torlade d'Azembuja, were referred to Duponceau, C. C. Biddle, Moore.

"Il viaggio alle Forche Caudine," by D. Dom. Morelli, was referred to Duponceau, Fischer, Vaughan.

An ear of corn, in which each grain was separate as in the other cerealia, was presented by D. B. Smith and referred to Dr. Pickering.

A new apparatus for decomposing water and giving shocks (magneto-electric), by Mr. Saxton, now in London, was verbally described by A. D. Bache.

Committee appointed to examine, arrange, and report a schedule of the Historical MSS. now in the possession of the Society; and what disposition should be made of them: Vaux, Fischer, Tanner.

Dr. Hare expressed his views on Boiler explosions, advocating the placing the boilers on the outside guards of Steamboats.

New Members elected: Franklin Peale, Sam. V. Merrick, Henry J. Williams, all of Philadelphia.

1833. Nov. 1. (Present, 25. Duponceau in the Chair.)

Committee on Walker's paper reported in favor of its publication.

Donations from six persons and one society.

Curators reported a set of casts sent to London Geological Society by Mr. Nicklin.

Cuvier's Monument: Duponceau's letter to the Royal In-





stitute of France, and the reply acknowledging the receipt of 1000 frs., were read.

"On Vermiculite," by Prof. Del Rio was referred to A. D.

Bache, McEwen, Keating.

Mr. Lea read three papers not intended for publication:
1. "On the Tufaceous Lacustrine Formation of Syracuse,
N. Y."
2. "On six new species of fossil shells from the
Tertiary of Maryland and New Jersey."
3. "On a new
genus of the family Spherulacea from the Cretaceous deposits of Timber creek in New Jersey."

Fire-proof Building: Mr. Duponceau communicated the fact that a meeting of gentlemen from different bodies had been held this day to consider the expediency of erecting a fire-proof building to accommodate the several bodies, and suggested the expediency of appointing a committee to consider the subject; whereupon the Vice-Presidents and the Building Committee were appointed to confer.

Prof. Bache described an auroral disturbance of the needle. Publication Committee were requested to enquire into the expediency of publishing the Transactions, at stated periods, and report, also, on the state of the Transactions.

1833. Nov. 15. (Present, 26. Duponceau in the Chair.)

M. Nagy's letter of thanks for membership contained also a description of a telescope made by Ploeffel, of Vienna.

Donations of books from seven sources, and for the Cabinet from M. Nagy.

Letter from Dr. Troost, of the University of Tennessee, on Shells in the Holstein river were read by Mr. Lea.

Letter from the Secretary of the Royal Society of London informing the American Philosophical Society of the establishment of two Gold Medals, worth 50 pounds each, to be awarded at each Anniversary meeting, for the most important discoveries in any one principal branch of Physical and Mathematical knowledge; and stating that the medals of 1836 would be awarded for unpublished papers in

Astronomy and Animal Physiology communicated between August, 1833, and June, 1836. Ordered, that the letter be printed in the Franklin Institute and Silliman's Journals.

Secretaries and Treasurer instructed to report a list of all persons who have been elected Members noting the date of election, whether or not they have paid their Initiation Fee, and signed the Constitution, and also those who have died or resigned.

Medal presented by M. Nagy, referred to the President to report.

A. Mulhom's request for the return of his paper on the Doctrine of Magnetism was granted.

List of non-reporting committees read by the Publication Committee.

Committee on Nicholl's paper on the Law of Proportion was discharged; also, Committee on Lovell's Meteorological Observations; also, Committee on Aldini's "Protection of Firemen."

1833. Dec. 6. (Present, 20. Duponceau in the Chair; T. Peale introduced.)

Report of Publication Committee on resolution to publish Transactions at stated periods, was laid on the table.

Publication Committee reported its doings for the past year and the following resolutions, which were adopted:

- 1. \$250 to assist in defraying the expenses of Vol. IV.
- 2. Librarian instructed to prepare a list of Subscribers paid, and in arrears future control and management of list to be exclusively in the hands of the committee.
- 3. Librarian to hand over the stock of Vols. I and II (N. S.), and pay over moneys received for them to the committee and any balance still due on account of payments made to him for the 3rd and 4th Vols.

Publication of obituary Notices of Dr. Collin and Mr. Collins: Resolution reconsidered and rescinded. President and Librarian requested to prepare short necrological notices of members deceased since the publication of Vol. IV, for

publication in the forthcoming volume. Committee appointed to enquire what necrological notices of members are in the archives, &c.: Vaux, Hays, Coates.

Donations from five sources.

1833. Dec. 20. (Present, 22. Duponceau in the Chair.)

Annual Appropriations: Building Committee, \$39.31; Binding, \$81.26; Journals, \$102.18; General expenses, \$4139.94—for 1833.

Finance Committee's report on the state of finances made and adopted.

Committee on Fire-proof Building for several institutions reported that they had held meetings and appointed Committees to ascertain what amounts the several institutions would pledge themselves for in subscriptions for stock for its execution. Committee instructed to report again.

Donations from three persons.

Letter from C. L. Bonaparte, with prospectus of his "Iconigrafia," &c.

Mr. Vaughan submitted a prospectus of a work on Mexican Antiquities.

1834. Jan'y 3. (Present, 30. Duponceau in the Chair; Merrick, Chapman, Bancker, Tanner, T. Peale, Meigs, Harlan, Hopkinson, Kane, A. D. Bache, Mr. Harris, Lukens, Pickering, Coates, Wetherill, Hays, C. C. Biddle, S. Lorich, Randolph, Emerson, Hembell, Lea, Vaughan, F. Bache, Fisher, Major Bache, McEwen, Strickland.)

Annual election of Officers reported as follows:

ELECTION OF OFFICERS.

President—Duponceau.
Vice-Presidents—Chapman, Hopkinson, Ord.
Secretaries—F. Bache, Kane, A. D. Bache, Meigs.
Councillors—N. Biddle, Delancey, T. Biddle, Mease.
Curators—Wetherill, Griffith, Lea.
Treasurer—Vaughan.

Library donations from Hodgson, Farrell, Zollickoffer, and the Royal Academy of Spain.

Museum donations from M. David, and the Museum of Natural History, Paris.

The Committee on a Building for the Scientific and Literary Associations reported—

That while they unite in commending the beauty and commodious arrangement of the Building which has been proposed for the reception of the various Scientific and Literary Institutions of Philadelphia, they yet cannot feel themselves at liberty to invite the Philosophical Society to participate in the business of erecting it.

The funds of the Society are altogether too small to embrace so extended a project, and such as they are, it appears to the Committee inexpedient to combine them with those of other Institutions.

The Committee anxious, however, that the valuable Library & Museum of the Soc'y should be lodged in a building less exposed to accident and injury than their present Hall, have felt themselves authorized to enquire whether this Object may not be obtain'd in a manner less liable to objections then that which has been referr'd to them. They are of an Opinion that a building of a proper Character may be constructed by the Soc'y alone, if permission can be obtained from City Councils and State Legislature to occupy a site on Independence Square, near that on which the Hall now stands. With the view of testing the feasibility of such a project, and of expediting it as far as may be, the Com. invite the early adoption by the Soc'y of the following resolutions:

- 1. Resolved, That a Committee of Seven Members be appointed to ask the concurrence of the Councils of the City, and the assent of the State Legislature, to an exchange by the Society of the ground it now holds on Independence Square for a lot of 65 feet Square or thereabouts, nearer to Library Street, on which it may erect a neat fire proof building for its accommodation with apartments for Offices beneath; the Society stipulating to remove its present building so soon as the new one is completed.
- 2. Resolved, That a Committee of five Members be appointed to prepare and report a Plan, and Estimate, for such a building, whereof the entire cost shall not exceed \$30,000.
- 3. Resolved, That the Committee of Finance be instructed to report in what manner it will be most practicable to obtain funds adequate to the Construction of such a Building, and whether there are any and what funds now within the Control of the Society which can be appropriated as a loan or otherwise in aid thereof.

(Signed)

N. CHAPMAN, JOB. HOPKINSON, T. K. KANE, WM. STRICKLAND, JNO. VAUGHAN. The report was accepted, and the resolutions discussed. The first Resolution was amended by inserting after "Library Street" the words "On this square, or for ground which shall be deemed by the Society to be in equally convenient location and of equal value," and by substituting "70" for "65." Then it was adopted.

The Second and third Resolutions were adopted without amendment.

Committee of seven (of the first resolution) were then apappointed: Duponceau, Gibson, Kane, Hopkinson, Chapman, A. D. Bache and Merrick.

Committee of five (of the second resolution): Strickland, Fisher, L. Harris, C. C. Biddle, and H. Bache.

Committee on Del Rio's paper on crystals developed in Vermiculite by heat reported it for publication, "with certain alterations which had been proposed by the author." Accepted.

Balloting for new members was prevented by "the requisitions of the laws in regard to candidates for Election not having been complied with."

[Minutes written in a small copperplate hand by Secretary A. D. Bache.]

1834. Jan'y 17. (Present, 21. C. C. Biddle in the Chair.)

Communication from the Faculty of Arts of the University; laid on the table.

Library donations from seven sources.

Finance Committee reported additional *Insurances* effected on the Building, Library and Collections. The insurance on the Building being now \$5000, and on the rest \$15,000.

Memorial Committee reported that it was prepared, and would probably be laid before Councils at their next meeting.

Librarian elected: John Vaughan.

Standing Committees elected "by nomination from the Chair subject to the approval of the Society:"

Finance Committee—C. C. Biddle (election on special motion); Ord, Vaux.

1884.

Publication Committee-F. Bache, Lea, Griffith.

Hall Committee-Strickland, Kane, Vaughan.

Library Committee-Moore, Pickering, Hays.

Appropriations for 1834: Building, \$150; Binding, \$100; Periodicals, \$200; current expenses \$150.

Classification of members: "On motion of Prof. [A. D.] Bache,

Resolved, That the members of the Society, will at their next, or stated meeting subsequent thereto, class themselves in one or more of the Committees constituted by Sec. 12, Chap. I of the Laws of the Society." Notice to the members ordered.

Dr. Short's (of Kentucky) offer of a collection of the plants of his neighborhood was accepted.

"Dr. Hays made a communication in relation to a distinct luminous spark appearing in certain cases on approaching an iron bar to parts of a Nott's stove which is in his study."

"Dr. Emerson mentioned the unusual height of the barometer during the last three days, having been at 31 inches, and that the air had been very dry at the corresponding time."

1834. Feb'y 7. (Present, 27. Duponceau in the Chair; Vice-President, Hopkinson; Secretaries, F. Bache, A. D. Bache, Meigs; Curators, Griffith, Lea; Treasurer and Librarian, Vaughan; Members, Bancker, Short, Major Bache, Mease, Pickering, Emerson, Burrough, Hays, Peale, Carey, Raguet, Vaux, Fisher, Nuttall, Harlan, Coates, Lukens, Del Rio. C. C. Biddle.)*

Classification of members: Letters received from Nicholls, Carey, C. S. Ingersoll, and Wm. Rawle, "relative to the Class in which they desired to be placed."

^{*}This is the first occasion on which this classified form of recording the "Members Present" was used. The minutes are in the beautiful handwriting of Prof. A. D. Bache; and the new form is a sample of the systematic way in which he carried on whatever he undertook. The form once adopted has been continued to the present time, 1884.—J. P. L.

Donations from Silliman, Hays, Nagy, and the Batavian S. S.

"On a peculiar phenomenon of lakes," by Col. Jackson in a letter from St. Petersburgh. Read and referred to the Committee on Physical Science.

"Second supplement to Lea's paper on the Naiades (March, 1832), was read by Mr. Lea, and referred to the Committee on the First Supplement.

"Note, supplementary to Harlan's paper on Ichthyosaurus Missouriensis," read and referred to the Publication Committee to print.

MS. communication from J. Buchanan, member of the Philosophical Society, Charleston, presented by Dr. Bache, and laid on the table.

"Case of sudden death in an adult occasioned by the sting of a bee," in a letter from J. P. Warren, of Wardsborough, Vermont, to Dr. Mease; read by Dr. Bache.

"Account of further observations on the luminous spark, &c.," by Dr. Hays; verbal communication. "The general result of the observations is that Dr. H. believes the source of the Electricity to be his own person which however presented some anomalies. Dr. H. made also some remarks concerning the case of the Somnambulist female of Springfield, Mass."

Museum: The Curators "were desired to examine what arrangements are necessary for the preservation & arranging the numerous Donations to the Cabinet and report at an early meeting."

Fossils: M. Nesti, of the Museum of Florence, having expressed to Dr. Harlan (while in that city in September last), a desire to exchange the fossil bones of the Val d'Arno for the plaster casts of the American Philosophical Society, Mr. Vaughan informed the Society of the fact.

Cuvier's bust: The thanks of the Society were voted to Dr. Harlan "for his attention to the interests of the Society, in procuring for it a fine Cast of the fossil remains of the Mæstricht monster or Mososaurus; another of the skeleton

of the Plesiosaurus dolichodeirus; and a Collossal [sic] Bust of the Baron Cuvier.

Mr. Lukens' request to use the Telescope was granted.

Mr. H. C. Carey's request to use the Sextant was granted. The death of Chas. Wharton, D.D., at Burlington, was announced, as having occurred "since the Publication of the last Necrological list."

1834. Feb'y 21. (Present, 23. Duponceau in the Chair.)

Donations from seven persons, and the Bureau des Ponts et Chaussées. An exchange of Transactions American Philosophical Society with the Bureau was ordered.

Dr. Bache made remarks on the present state of the current volume.

Committee on Lea's paper report it for publication.

Committee on Dexter's paper (Geology of the Canal) discharged.

Committee on Darby's paper (mean temperature), discharged.

Committee on Tanner's map and memoir, discharged.

Committee on Prison Queries, discharged.

Committee on Varli's improvement, discharged.

Committee on Magnetism, discharged. [This minute in A. D. Bache's handwriting, of a motion to discharge six Committees made by Dr. Bache, shows that the past records had been overhauled in order to clear the docket.]

1834. March 7. (Present, 13. Duponceau in the Chair.)

Donations from Von Hammer and five other persons.

"On the medals presented by Mr. Nagy." Report from the President.

The death of Charles Pougens, of Paris, was reported.

The death of M. de Schweinitz, of Bethlehem, was announced.

"Resolved, That this Society entertain a sense of deep regret at learning the loss of its late member the Rev⁴. Lewis D. de Schweinitz;" and that

the Secretary be requested to express the sense of the Society of the loss which they have sustained to the relations of M. de Schweinitz.

The death of M. de Lasteyrie, announced at a previous meeting, was a mistake. The President communicated the fact that M. de Lasteyrie "was still living."

Communication of January 17, from the Faculty of Arts of the U. of Pa. was referred to the Committee on Physical Science, which Committee "was requested to organize for the consideration of the business referred to them."

1834. March 21. (Present, 12. Duponceau in the Chair.)

Library donations from seven sources.

Museum donations from C. W. Short, M.D., of Kentucky; and Mexican medals from Mr. Naxera.

"The Herbarium of the late Zaccheus Collins," was de-

posited by General Parker.

"A MS. calculation of the Eclipse of the Sun in 1778," by Daniel Freechauff, of Allentown, Pennsylvania, was deposited by Mr. George Vaux.

Committee on List of Members reported progress.

The organization of the Committee on Physical Science was reported by Prof. A. D. Bache, its Chairman; Dr. Hays, Secretary. "The subjects intrusted to them" had been referred to Sub-Committees.

The Committee on Natural History was requested to organize. The collection of plants from Dr. Short [reported above], was referred to them.

1834. April 4. (Present, 20. Duponceau in the Chair.) Donations from S. Breck, Ord, Vaughan and the Asiatic Society.

"Biographical sketches," of Dr. Holyoke, Mr. Tim. Matlack, and Mr. Wm. Jones. Mr. Kane was discharged from the duty of preparing them.

"Biographical sketch of Mr. Torombert." President ex-

cused.

The Committee on the Alphabet of Arithmetic was continued.

The Committee on the Money System of Portugal reported progress.

Curators reported "that Casts of Mastodon bones have been sent to the Museum of the Garden of Plants."

Committee on Morelli's memoir reported progress.

Committee on a variety of Indian corn, made a verbal report, through Mr. Pickering. Committee continued.

Committee on Schedule of MSS. belonging to the Society

reported progress.

Committee on List of Members reported again; list read; Committee continued.

"President reported that 'the brief Necrological Notices ordered to be prepared for the Transactions are now printed."

Committee on the proposition to construct a New Hall was continued.

Committee on Memorial to Councils was continued.

Inscription of members' names: "The Secretaries appointed to notify the members that they are requested to inscribe their names &c., reported that they have fulfilled that duty."

Committee on Physical Science reported progress on the

paper on a peculiar phenomenon of Lakes.

"Collections towards a Flora of the Territory of Arkansas," by Thos. Nuttall, was referred to a Special Committee: Griffith, Pickering, D. B. Smith.

S. Hazzard "requested to return all the Manuscripts be-

longing to the Society that are in his possession."

Transactions American Philosophical Society, Vol. IV, Part 3, N. S., laid on the table by the Chairman of the Publication Committee.

1884. April 18. (Present, 14. DuPonceau in the Chair; Kane, Meigs, F. Bache, Mease, Wetherill, Lea, Vaughan, Del Rio, Harlan, Pickering, Henry, Emerson, J. Williams.)

Library donations from the Hungarian Academy (Nov¹-11, 1833), and five other sources.

"A necrological notice of M. Gonzales was presented by M. Del Rio & referred to the President;" who was requested to prepare one of M. Pougens.

Casts of Mastodon: The Curators reported cost of making them at not less than \$30 "at which price they are now

ready for exchange or sale."

"On the Circle and the Sphere," by C. Paul Boushe, of Cincinnati, was received and referred to Nulty, A. D. Bache and Roberts.

"Description of 5 new shells," read by Mr. Lea.

Committee on Nuttall's paper on the plants of Arkansas, reported it for publication in the Transactions.

The death of Jno. Ternant, "near Paris," was reported by

Dr. Bache.

Committee on Natural Science reported holding its first meeting on the 28th ult.; Ord elected Chairman; Griffiths, Secretary; next stated meetings on the second Friday of each month.

Secretary Kane's application for the "State papers now in course of publication at Washington," approved.

Dr. Bache reported that he had sent a letter of condolence to the Schweinitz family.

1834. May 2. (Present, 21. Hare in the Chair; afterwards DuPonceau, Chapman, and others.)

Letter from the Schweinitz family read.

Library donations from Quetelet and eight other sources.

List of Members: * "Dr. Bache, on the part of the Com. to prepare a list of Members made a report in full, accompanied by a list of the Members of the Societies, from the union of which the present Society was formed; a complete list of the members of the present Society; and a list of the Surviving Members."

[&]quot;On motion of Mr. Kane the report was accepted and Dr.

^{*}This is the Russia-leather bound volume so carefully kept under his personal inspection by Dr. Franklin Bache until his death.—J. P. L.

Bache was requested to have the accompanying lists bound in a convenient form, for the use of the Society, together with a Copy of the Charter & Laws."

Committee on the Alphabet of Arithmetic by M. Do Monte Carmelo recommended that the author "be informed by one of the Secretaries that his communication has been respectfully considered by the Society, & that a copy of the report be transmitted to him." Adopted.

A necrological notice of M. Fr. Ant. Gonzales, by M. Quadrado "was read & ordered to be deposited in the archives."

List of Committees who have not reported, and the list of Surviving Members, were read.

Members in arrears: Resolutions offered by Mr. Kane and postponed to the next meeting:

"Resolved, That in the opinion of this meeting all members elected before the 1 Jan. 1834, & residing within ten miles of the Hall, & who shall not have subscribed, the Laws on or before the 1st Jan, 1835, will then lose the right of Membership.

"Resolved, That the Secs give notice of the foregoing resolution to all members elect who reside within ten miles of the Hall & have not yet subscribed the laws."

Quetelet's letter was referred to the Committee on Physical Science.

1834. May 16. (Present, 18. DuPonceau in the Chair; Del Rio and others).

Library donations from three persons.

Committee on Smith's Ear of Corn, discharged.

Committee on Obituary notices in the Archives, discharged.

Curators reported "that they deem it inexpedient at the present time, that any alterations should be made in the Museum."

"On the Origin of Coals," by Jas. Pedder, was directed to be deposited in the archives.

Mr. Lea requested permission to make alterations in his paper on the Naiades.

Committee on Lea's paper of April last: Pickering, A. D. Bache, Griffith.

Kane's resolutions of last meeting discussed and adopted.

"Resolved, That notification be given in the public papers, as required by law, that the enacting of Statutes & laws will be part of the business of the next Stated Meeting of the Society."

1834. June 20. (Present, 16. DuPonceau in the Chair; Del Rio and others.)

Death of La Fayette: "The President, with the expression of deep feeling, announced to the Society the death of their illustrious associate, General La Fayette. On this information being received, the Society resolved to dispense with the Transaction of the ordinary business of the Society."

- "The President thereupon presented the following Resolutions which were unanimously adopted:
- "'Resolved, That this Society has learned with deep regret the death of their illustrious friend and associate, General La Fayette; and that in testimony of this feeling the members will wear crape on the left arm for the space of one month.
- "Resolved, That a letter be written to the family of the General, in the name of the Society, expressive of their sorrow for the loss which the Society, our Country and the World have sustained by this melancholy event."
- "Resolved, That the President and the Vice-Presidents of the Society be charged with the duty of communicating these Resolutions to the family of the deceased."
- "After which the Society adjourned to meet next Friday morning at the usual hour."
- 1834. June 27. Adjourned meeting. (Present, 17. Du-Ponceau; F. Bache, A. D. Bache, Lea, Vaughan, Hare, Raguet, Harlan, Nulty, McEuen, Lukens, Coates, Fisher, Hays, Emerson, Pickering, Horner.)

Historical Committee: Three MS. volumes of its correspondence were presented, with a letter from the President. Library donations from nine persons.

Cabinet donations from the Jardin des Plantes, H. Bright, of Bristol, Eng., T. Fletcher, and W. Short.

"The President reported that the resolutions of the Society had been communicated, as directed, to the family of Gen. La Fayette."

Committee on MSS. reported a resolution, which was adopted:

Historical MSS.: "Resolved, That the whole collection of Historical MSS. (except the correspondence of James Logan) be referred to the Com. on History and Literature, with instructions to report at the first meeting in October, or as soon afterwards as possible, whether in their opinion it be advisable... to publish a second Vol. of the Historical Collections, and what shall be the contents of the said volume."

Committe on List of Obituary Notices in possession of the Society discharged.

Committee "on procuring the assent of Councils, &c., of the Legislature to the exchange of the present site of the Society's Hall, &c., was discharged" [sic].

Committee on "Estimate for a new building, &c., was also discharged."

Committee on Finance "was discharged from the consideration of the subject of providing funds for a new building."

Committee on Physical Science reported on Col. Jackson's paper on a peculiar phenomenon of Lakes. Report accepted. Also, "on the communications referred to the Society by the Faculty of Arts of the University of Pennsylvania."

MS. List of Members: Dr. Bache's bound book placed on the table.

Committee on Physical Science reported their minutes. "The course taken by the Committee in regard to the subjects committed to them was approved."

Committee on Lea's new species reported in favor of publication.

"On a Cyclovolute, being an extension of the Magic Circle of Doctor Franklin," by Mr. E. Nulty; read and referred to A. D. Bache, B. H. Coates and F. R. Hassler.

"Prof. Hare made some remarks on the importance of

Meteorological Enquiries now before the Physical Committee."

"Prof. Bache stated that observations of occultation of the eclipsed moon on Saturday morning last had been made by Messrs. Walker, Riggs, McEuen and himself in this city, and by Prof. Courtenay at West Point."

The death of Ed. Penington was announced by Dr. Bache.

The President was requested to prepare an obituary notice of La Fayette.

Geological Society of Pennsylvania: "Prof. Bache stated that Dr. Harlan had handed to him a letter on a supposed Solar tide which had been read before the G. S. of Pa., and on motion the letter was referred to the Com. on Phys. Science."

1834. July 18. (Present, 15. DuPonceau in the Chair.) Library donations from three persons.

Cabinet donations of coins from Capt. David Geissinger, and of sundry articles from the South Seas, from Midshipman L. Godon. Coins referred to the President and to Dr. Moore director of the Mint.

Committee on Nulty's paper, continued.

Magnetic tide: "Prof. Bache made a verbal com. in relation to an attempt to determine the diurnal variation in the horizontal intensity of the earth's magnetism, which he stated had resulted in giving evidence of a regular tide capable of detection by the ordinary means used for determining the horizontal intensity. He proposed to return to this subject at a future time."

The death of Prof. Schulze, of Göttingen was reported.

1834. Aug. 15. (Present, 17. DuPonceau in the Chair; F. Bache, A. D. Bache, Meigs, Vaughan, Griffith, Del Rio, Peale, Fisher, Harlan, Hays, Quadrado, Pickering, Lukens, Bancker, Raguet, Emerson.)

A specimen of silk, with a letter from W. Zollickoffer, M.D., of Md., was referred to DuPonceau.

Library donations from fourteen sources; and "the first Book printed for the Blind in America (Gospel of St. Mark) in raised letters," from Jac. Snider.

Cabinet donation of seventy-two Hungarian minerals, from M. Nagy.

Committee on a memoir of Gen. Izard, discontinued.

Committee on Money System of Portugal, continued.

Committee on Morelli's memoir, continued.

Committee on Natural Science to continue their work on Short's plants.

Committee on a memoir of M. Pougens, continued.

Committee on Boushe's paper, discharged.

Committee on Nulty's Cyclovolute, continued.

Committee on Geissinger's donation of coins, continued.

Committee on Physical Science reported that they had laid on the table the letter respecting a solar tide.

The death of Judge Johnson, of South Carolina, was announced.

The death of Count Real, of Paris ("lately"), was announced.

1834. Sept. 19. (Present, 17. DuPonceau in the Chair; Tidyman, Tanner, Hays and others.)

Library donations from the Geological Society of Pennsylvania; Swedish Academy; Asiatic Society of Bengal; Duhamel, and eleven other sources.

Cabinet donations from Parnaentier, and Brandis.

Committee on Money System of Portugal, continued.

Committee on Morelli's memoir, continued.

Treasurer reported that he had paid \$250 to the Publication Committee and delivered to them Vols. I and II Transactions as directed by Resolutions 1 and 3, Dec. 6, 1833. He reported progress as to the duty required by Resolution 2.

Committee on Notice of Pougens, continued.

Committee on Nulty's "Cyclovolute" reported it for publication. Accepted. Committee discharged.

Committee on Notice of La Fayette, continued.

Committee on Geissinger's coins was requested to report, also, on "the ancient coins presented by the President of the Society."

"Prof. Hare made a verbal com. in relation to a copper cylinder" (refrigerator) "connected with the City Water Works, said to have collapsed, and an explanation of which he offered."

"Prof. Hare also made some remarks in explanation of the difference in the length of the Spark passing from a positive to a negative conductor respectively terminated by a large and a small ball" offering . . . "a difficulty in the theory of two fluids easily explicable on the Franklinian theory." His written communications on the above subjects were referred to F. Bache, A. D. Bache and Mitchell.

Large Book of Members: On motion of Dr. Bache, "the Secretaries were instructed to have prepared a book in which shall be copied the laws and regulations of the Society, followed by a list of members, conveniently arranged with lateral columns for dates, signatures, the expiration of membership, &c." *

1834. Oct. 3. (Present, 10. DuPonceau in the Chair.)

Library donations from seven sources.

Cabinet donation of prangos seed from Ranjeet Singh's territory, sent by Dr. Burrough, to be distributed by the Librarian.

Committees reported progress.

Royal Society Transactions: The Librarian reported that he had succeeded in nearly completing the Society's series of

^{*}This is the folio volume, with green linen cover, in which the members' names are written in fair German text; autograph signatures being placed, when possible, in the next blank column; in some cases the autograph signatures of foreign members have been obtained from letters—J. P. L.

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the Royal Society Transactions, and also in procuring the entire set of the *Leipsic Transactions*.

Deaths of Joel Bailey, Wm. Johnson, and Caleb White-foord. "Dr. Bache read several letters received by him in answer to enquiries respecting some of the Ancient Members of the Society, giving information of the" above-mentioned deaths.

Washington's Letter: "The Librarian presented the original reply of General Washington to the address delivered by the Society to him as one of its Members in Dec., 1781, on the occasion of the Capture of Lord Cornwallis."

"The Minutes of the Election of Gen. W. having been lost, it is, on motion, Ordered, that the reply of Gen¹ W. be now entered on the minutes.

"It is as follows:

"(Endorsed)

OCTOBER 1781

"Permit me through you, to return my warmest thanks to the American Philosophical Society, for this very polite mark of their attention and esteem—

"I have ever set the highest value upon the honor which was conferred on me, when admitted into a Society instituted for the noblest of all purposes, that of 'promoting useful knowledge,' and have long wished for an opportunity of rendering myself, in some degree, worthy of my election. Happy am I, therefore, in receiving this public assurance from Fellow members, that my Services, upon a late important occasion, have contributed to give them 'an additional security in their pursuits of Science.'

"It is peculiarly pleasing to me to observe how universally, how justly, and with how much gratitude we acknowledge the obligation we are under to the Navy and Army of our illustrious Ally, for their noble and generous exertions. It will not fail to cement the growing Union between the two nations, and will be a proof to the Generals—the Officers—and the Men who have so bravely fought and bled in our cause that we are not forgetful of their Merits and Services.

"I have the honor to be

"With the greatest respect

"& esteem - Sir

"Yr Obt & Very Humble Ser.

(Signed)

"GO WASHINGTON.

"To

"Doct' Tho Bond,
"Vice-President

" of the Society-Sc"

1834. Oct. 17. (Present, 19. DuPonceau in the Chair; Baldwin, Del Rio, Raguet and others.)

Linnean Society acknowledged Transactions IV, i.

Library donations from Henry Beaufoy, Esq., of London, and seven other persons. [See below.]

Cabinet donation of forty-four silver and ninety-nine copper coins of different countries from J. F. Fisher, Esq.

Librarian having furnished a list of members to the Publishing Committee (see resolutions of November 15, 1883), was "discharged from the duty."

"A magnetic needle made by himself from a hollow tube of singular delicacy," was exhibited by Mr. Lukens.

Outstanding Committees reported progress.

Librarian's "purchase," "reported at the last meeting" was considered, and \$200 appropriated "to complete the purchase made by the Librarian, of the Acta Eruditorium of Leipsic, & of missing Vols. of the Trans. of some other learned Societies of Europe."

"The Secs. were directed to present to Henry Beaufoy, Esq" the special acknowledgments of the Society for his valuable donation of the Nautical & Hydraulic Experiments conducted by his father Col. Beaufoy."

Fisher's coins were referred for description to the Committee of July 18.

Publication Committee laid before the Society Transactions American Philosophical Society, V, i.

The Secretaries reported the number of members:

Resident within 10 miles of the Hall	93
Total number of members	

Prof. Bache communicated Del Rio's reduction of Sulphuret of Silver by muriate of ammonia and a copper coin; the action had been suffered to continue for more than two months before opening the vial containing the solution of muriate, &c.

1834. Nov. 7. (Present, 17. DuPonceau; Chapman, Hopkinson, A. D. Bache, Meigs, F. Bache; Vaughan, Dr. Hodge, Dr. Bell, Tanner, Bancker, Meredith, Hays, Harlan, Pickering, Coates, T. Peale.)

Library donations from six sources.

Committee on Natural History was discharged from the consideration of Short's plants, which were referred to Griffiths, Pickering, Harlan.

President's reply to Dr. Zollickoffer reported.

The death of Thomas Say was reported. Ord appointed. The death of Iréné Du Pont was reported. Du Ponceau appointed.

"Obs. to determine the magnetic dip at Baltimore, Philadelphia, New York, West Point, Providence, Springfield, & Albany," by A. D. Bache and Courtenay, was referred to Bancker, Lukens, McEuen.

Circular of the Franklin Institute and American Philosophical Society Joint Committee on Meteorological observation laid on the table for distribution.

1834. Nov. 21. (Present, 19. Duponceau; T. K. Peale, Emerson and others.)

Letter of envoy of the Record Commission of Great Britain read; and the Librarian reported the receipt of 51 volumes. Librarian ordered to send Transactions and Catalogue.

Library donations from the above and four other sources. Committee on Hare's papers never having received the MS. were discharged.

Committee on Short's plants reported, and were discharged.

Committee on Bache and Courtenay's paper reported it for publication.

Resolution recommended by the Board of Officers was adopted:

"Resolved, That the Society direct their Committee on Mechanical & Physical Science to report in what manner and by what means the Science of Astronomy can be most efficiently promoted."

Star Shower: "On the recurrence of the remarkable meteoric display of Nov. 13, 1833," by Prof. Bache; verbally communicated; "in which he stated that after due preparation for observation & careful attention on & after the morning of the 13th inst., he felt warranted in concluding that no remarkable meteoric display took place at Philadelphia on the 13th inst.," i. e., 1834.

"On a halo seen by him about the head of his shadow in walking in the country when the due [sic] was on the grass and the moon up, but not high." Verbal communications by Dr. Emerson. [Minutes written by A. D. Bache, Secretary].

1834. Dec. 5. (Present, 19. Ord in the Chair.)

Library donations from four persons.

Publication Committee's annual report presented.

"Observations on the Solar Eclipse" made by Lukens, Wistar, Dr. McEuen, C. McEuen, J. Young, Espy, Riggs, and S. C. Walker, and communicated by S. C. Walker, was described by A. D. Bache.

"Observations on the thermometer, photometer, dew point, &c. during the Eclipse," made by Prof. Courtenay, Prof. Patterson (University Virginia), Jos. Roberts, Jr. and himself, were described by A. D. Bache. Referred to

"Committee to collect observations upon the Eclipse of 1834:" A. D. Bache, Jos. Roberts, Jr., Isaiah Lukens.

Magellanic premium: no application.

"The coins presented this evening" were referred to Committee on coins. (July 18, 1834.)

1834. Dec. 19. (Present, 26. Ord in the Chair; F. Bache, Meigs, Kane; Mease, Lea, Vaughan, T. R. Fisher, C. C. Biddle, Merrick, C. N. Bancker, Vaux, McIlvaine, J. Lukens, H. C. Carey, J. G. Thompson, H. S. Tanner, Raguet, T. Peale, Keating, Drs. Hays, Emerson, McEuen, Harlan and Coates.)

Library donations from thirteen sources.

Committee on Money System of Portugal, continued.

Committee on Morelli's memoir, continued.

Committee to notify members of the new laws, reported progress.

Committee on History, reported progress.

Committee on Eclipse reported that they had received statements of observations made at Philadelphia, Haverford, Long Island, Baltimore and Cincinnati.

Committee on Finance; annual report; accepted.

Appropriations for 1835: Hall, \$150; Binding, \$100; Journals, \$200; Current expenses, \$200.

Insurance: Special Committee appointed "to inquire whether the terms & conditions on which the property is now insured, cannot be advantageously modified," and "to make insurance on such terms as they shall judge advisable in a sum not exceeding \$5000 as to the Hall, & \$20,000 as to the Library, Museum & Cabinet;" Col. C. C. Biddle, E. V. Bancker, and Rob. Vaux.

"Descriptions of 19 species of fresh water shells," [names given]; read by Mr. Lea.

Memoir of Thomas Say read by Mr. Ord. Afterwards thanks were voted. Then Mr. Keating's Resolution, that a copy requested, and the Publication Committee directed to print 250 for distribution among the members, and 500 for the forthcoming Volume Transactions American Philosophical Society was referred to Kane, Keating and Meigs.

The death of Simeon Dewitt [sic], of Albany, was announced. Mr. Kane appointed to prepare an obituary notice.

Henry's galvanic battery: "Dr. Bache, on the part of Prof. Bache, explained some modifications of the galvanic battery made by Prof. Henry of Princeton, which, with the peculiar effect of a Long Conductor in producing Sparks in a Galvanic circuit, will be the subject of a communication to be made at a Subsequent Meeting."

1835. Jan'y 2. (Present, 40. DuPonceau in the Chair; Judge Hopkinson, Judge Morgan; Drs. Chapman, Griffith, F. Bache, Meigs, Bell, La Roche, Horner, Davis, Moore, Gibson, Mease, Harlan, Hays, McEuen, Emerson, Hodge, Coates, Wood; Messrs. A. D. Bache, Tanner, Lukens, H. C. Carey, Fisher, McIlvaine, Merrick, C. C. Biddle, Raguet, Bancker, Ord, Vaughan, Wetherill, Lea, Kane, Keating, Nicklin, Baldwin, Wharton.)

Election of officers (38 votes reported):

ELECTION OF OFFICERS.

President—P. S. DuPonceau.

Vice-Presidents—Chapman, Hopkinson, Ord.

Secretaries—F. Bache, Kane, A. D. Bache, C. D. Meigs. Councillors—Wm. Rawle, Rob. Hare, W. Hembel, E. Nulty.

Curators—J. P. Wetherill, R. E. Griffith, Isaac Lea. Treasurer—John Vaughan.

Prof. Hamilton's (of Nashville) communication was read and referred to the Committee on Eclipse.

Library donations from five persons.

Committee on Eclipse reported progress.

Committee of Finance reported progress in duty enjoined at last meeting.

Secretaries reported progress in notifying members.

Committee of December 19, 1834, on Necrological Notices of Members reported resolutions, which were laid on the table.

"Descriptions of two new species of shells," read by Mr. Lea.

New members elected: Henry D. Rogers, of Philadelphia; James P. Espy, of Philadelphia; Ed. H. Courtenay, Professor Mathematics, University of Pennsylvania; C. W. Short, M.D., of Lexington, Kentucky; Jno. Brockenbrough, of Richmond, Virginia; John Wickham, of Richmond, Virginia; Jno. Torry [sic], M.D., Professor Chemistry, College Physicians, &c., New York; Joseph Henry, Professor Natu-

ral Philosophy, College of Princeton, New Jersey; D. Francis Condie, M.D., of Philadelphia; Col. Wm. Drayton, late of South Carolina.

1835. Jan'y 16. (Present, 21. DuPonceau in the Chair; new members: Henry, Rogers, Espy, Courtenay, introduced.)

Letters of acknowledgment for Transactions IV, iii, received. Library donations from seven sources.

Committee on Morelli's memoir reported "that the paper not offering to American readers the kind of Interest which such treatises often excite in European Antiquarians it is not recommended for publication in the Transactions of this Society."

Committee on History and General Literature's recommendation that certain MSS. be opened to the Committee of the Historical Society was adopted.

Indian languages: On the recommendation of the same Committee that a Special Committee be appointed, it was

Resolved, That the Com. on H. & G. L. "be requested to report the amount required for the publication of the MSS. [on Indian languages in possession of the Society]... and to ascertain if means can be found for defraying the expense of the same."

"The President was at his request excused from preparing a biographical notice of Gen¹. LaFayette."

"Description of a Galvanic Battery contrived by" Prof. Henry, was read and referred to A. D. Bache, F. Bache and Hare. (The drawings were presented December 19, 1834.)

"Prof. Henry made a verbal communication of the following facts in Magneto-electricity, which he accompanied by the experimental demonstration of those relating to the spark produced:

1. A long wire gives a more intense spark than a short one.

There is, however, a length beyond which the effect is not increased, a wire of 120 feet gave about the same intensity of Spark as one of 240 feet.

2. A thick wire gives a larger Spark than a Smaller one of the same length.

- 3. A wire coiled into a helix gives a more intense spark than the same Wire when uncoiled.
- 4. A ribbon of Copper coiled into a flat Spiral gives a more intense spark than any other arrangement yet tried.
- 5. A ribbon first doubled into two Strands and then Coiled into a flat Spiral gives no spark or a very feeble one.
- 6. The effect is increased by using a longer and wider ribbon to an extent not yet determined, the greatest effect has been produced by a coil 96 ft. long and weighing 15 lbs. A longer conductor has not been tried.
- 7. Large copper handles soldered to the ends of the coil of 96 feet, and these grasped by both, one by each hand, a shock is felt at the elbows when the contact is broken, with a battery of 1½ ft. of Zinc surface.
- 8. A shock is also felt when the copper of the battery is grasped by one hand & one of the handles with the other; the intensity, however, is not as great as in the last Case. This method of receiving the Shock may be called the direct method, the other the lateral.
- 9. The decomposition of a liquid is effected by the use of the coil by a single pair of plates, by interrupting the circuit and inserting a pair of decomposing wires.
- 10. A mixture of oxygen and hydrogen is also exploded by using the coil and breaking the contact in a bladder containing the mixture.
- 11. The property of producing an intense spark is induced in a short wire by introducing at any point of a Compound galvanic circuit a large flat spiral.
- 12. A Spark is produced when the plates of a single battery are separated by a foot or more of diluted acid.
- 13. Little or no increase in the effect is produced by inserting a piece of Soft iron into the centre of a flat spiral. The effect produced by an electromagnetic magnet in giving the shock is due, principally, to the coiling of the long wire which surrounds the Soft iron.

Standing Committees for 1835 were appointed:

Finance—C. C. Biddle, Ord, Vaux.

Publication-Lea, Griffith, Hays.

Hall-Strickland, Kane, Vaughan.

Library—Moore, Pickering, Hays.

Librarian elected—Vaughan.

List of Members read by the Secretary.

1835. Feb'y 6. (Present, 17. Mease in the Chair.)

Dr. Short acknowledged notice of membership.

Library donations from the University of Pennsylvania, and thirteen persons.

Insurance: Report of Finance Committee:

"The undersigned Committee on the Insurance of the property of the A. P. S. agree to order Insurance as follows, viz.; \$1600 on books valued as follows: 8° at \$1.25 per Vol.—4° at \$2.50—Folios at \$4.00; and \$4000 on the Cabinet of minerals and miscellaneous articles belonging to the Society; and further that \$5000 be insured upon the building, making the sum of \$25,000, as authorized by resolution of the Society, Dec. 19, 1834. Phila., Feb. 6, 1835. Signed, C. N. Bancker, Robt. Vaux."

"The report was accepted, and its provisions ordered to be carried into effect."

Committee on Henry's paper reported it for publication. Approved.

Committee on Tirlader de Azanbiya's [sic] paper "On the Value of Coins of different countries and epochs," "made a report, which was on motion approved, recommending that the Volume be preserved in the Library, and that the thanks of the Society be presented to its author."

"Contributions to Electricity and Magnetism," by Joseph Henry, was read by A. D. Bache, and referred to Committee on his former paper.

"Corrections of the barometer," by Dr. Emerson, was read by him, and referred to Committee on Physical Science.

"Resolved, That the abstract of Prof. Henry's paper inserted in the minutes of Jan. 16 be published in some Journal."

1835. Feb'y 20. (Present, 17. DuPonceau in the Chair; new member, Condie, and others.)

Library donations from three persons.

Publication Committee reported all papers ordered for publication as printed, except Prof. Henry's, which was in the printer's hands. Also, that since their last reported balance of \$464.13, they had "passed" \$1107.84 of bills, and paid \$602.09. Balance in hand \$8.03; debt, \$505.75 (\$248 of which must be paid March 1). Also, the Committee trust and believe that it will not be necessary to make a further appropriation for Vol. V, "unless papers are passed

upon them with more rapidity than heretofore." The Committee offered the following resolution:

"That \$250 be appropriated to the current expenses of Vol. V, and that the Treas. be directed to pay said amount to the Com. of Publication."

Adopted.

"On the effect of the Moon on the depositions from the Atmosphere:" Verbal communication by Dr. Emerson, "in which he showed by a review of the conflicting deductions of the most distinguished labourers in this field and a priori from the principles regulating the hygrometric state of our atmosphere that no effect could be ascribed to the influence of the Moon."

Prof. Rogers stated that Western fur traders had told him that the *Meteoric display* of November 13, 1833, had been witnessed four hundred and fifty miles up the Missouri river, at the mouth of Yellowstone, and on the headwaters of the Colorado, with the same appearance, and similar weather as in the Atlantic States. Prof. Bache said that replies to the Secretary of War, U. S., from the military posts certified to the fact of *no remarkable* display November 13, 1834.

Election of Members; Revision of the Law: The following resolution, offered by S. Vaughan and A. D. Bache, was laid over, as required by the laws:

"Resolved, That so much of Sect. 1, Chap. I, of the Laws of the Society be repealed as requires that the election of members shall be held only at the Stated Meeting on the first Friday of Jan'y of each year; and that in lieu thereof, the provision in the old laws relating to the same subject be inserted, as follows: "and that only on the third Friday in the months of January, April, July and October," and in order to such Election at least twenty members must be present." Notification to members ordered.—[On the 20th March, the Resolution was adopted. See Minutes.]

1835. March 6. (Present, 21. DuPonceau in the Chair; Hopkinson, A. D. Bache, F. Bache, Meigs, Lea, Vaughan, Major Bache, Bancker, Nicklin, Tanner, Gummere, Hays, Lukens, Emerson, Pickering, Coates, Mease, Wood, Courtenay, Rogers.)

Letters from Torrey, Turner, and Bentham.

Donations from the Horticultural Society and six persons. Committee on Coins continued.

Committee on Henry's paper (Long Conductor) reported for publication.

Committee on Eclipse reported a collection of "Observations" made at Philadelphia, Haverford, Westhills, Baltimore, Charlottesville, Norfolk, Cincinnati and Nashville. Referred to the Publication Committee for insertion in the Transactions.

"De lingua Othomitorum," by Emanuel Naxera, of Mexico, was presented by DuPonceau, and referred to DuPonceau, Keating and Espy.

"Practical rules for calculating an eclipse of the sun" by Prof. Gummere, was read by Prof. A. D. Bache, and referred to Dr. F. Bache, Prof. Courtenay and Mr. Roberts.

Royal Transactions of London: First 6 Vols. ordered purchased to complete the set. These volumes Mr. Vaughan had recently procured.

There being no quorum for passing any law, the order to notify members was renewed.

1835. March 20. (Present, 24. Duponceau; Chapman, Meigs, F. Bache, A. D. Bache, Vaughan, Hare, Lukens, Espy, Hodgson, Merrick, Bancker, Baldwin, Carey, Robinson, Mease, Pickering, Morgan, Major Bache, Harlan, T. Biddle, Peale, Wood, Raguet.)

Portraits of Franklin and Jefferson: The request of the Commissioners of Southwark, through Thos. D. Green, for a loan of these pictures, for the purpose of having them copied was granted.

Museo Borbonico: Chevalier Morelli's letter accompanying "a donation of the Royal Museum Borbonicum," was read, and a special letter of thanks from the President voted, with a present of the Transactions of the American Philosophical Society to the King of the Two Sicilies.

Other donations from the Royal Society of Antiquarians, Paris, and four persons.

A list of coins was accepted, a report of the Committee on Coins.

Committee on Physical Science reported the following resolution:

"That the Com. on Physical Sciences have authority to communicate with the City Councils in relation to assistance in the erection of an Astronomical Observatory under the charge of this Society."

Adopted.

Committee on Naxera's paper reported it for publication. Adopted.

Insurance: The Treasurer reported that he had effected Insurance as follows: "Annual in the Franklin Ins. Office, \$16,000 on the library (valuing Folios at \$4; 4° at \$2.50; 8°, &c., at \$1.00); Annual in Penna office, \$4000 on the Cabinet, minerals, objects of N. H., models in wood & plaster, coins & medals; In Phila. Contribution Office perpetual, with privilege of withdrawing at certain periods, \$5000, deposit $2\frac{1}{2}$ p. c."

Librarian reported that he had given notice that the enacting of laws would form part of the business of the evening. The number required by the laws being present, it was voted to consider the proposed change in the laws. The Resolution was then adopted. [See Minutes of Feb. 20.]

1835. April 3. (Present, 15. DuPonceau in the Chair.]

Donations from the St. Petersburgh Academy and Major Bache.

DuPonceau reported that he had complied with the instructions of the Society in relation to Chev. Morelli.

A map of Charleston harbor was presented by Major Bache, with a verbal description of his survey and in evidence of its minuteness and accuracy. He was requested to reduce his statement to writing for a future meeting.

Prof. Bache described two kinds of apparatus for illus-

trating the "laws of the Absorption and Radiation of Heat by different surfaces."

1835. April 17. (Present, 13. Dr. Bache in the Chair.)

Letters were read and donations reported.

A donation of Turkish, Egyptian and Greek Coins was received from Mr. H. B. Hodgson, with a list of the coins.

An obituary notice of Pougens was read by the President. An obituary notice of DuPont was read by the President. The death of the Hon. Jas. Brown was reported, and H.

D. Gilpin "requested to prepare a necrological notice."

Prof. Hare described verbally certain very volatile liquids, which he had obtained by the reaction of alcohol and sulphuric acid, with a powerful refrigerator, "and which he conceived to be combinations of sulphurous acid and hydric (sulphuric) ether, analogous to the combinations of alcohol & water." He exhibited a specimen of these, colorless and retained as a liquid by pressure. One of these liquids boiled at 28° F.

A copy of the Transactions, N. Ser., ordered to be sent to the Asiatic Society, London.

1835. May 1. (Present, 18. DuPonceau in the Chair.)

B. F. Joslin's enquiry about his communication respecting an air-pump, was referred to the Board of Officers.

Donations of books from five persons, and the Council of Mines.

Historical Committee reported on the unpublished MSS., and was discharged from further consideration of the subject.

Committee on Fisher's coins reported a description of forty-one pieces.

"Prof. Henry made a verbal com. referring to certain facts which he intended to present to the Society at a future time:

[&]quot;1. That a hollow Cylinder of Steel, one-tenth of an inch in thickness,

may be magnetised on the Surface without exhibiting Signs of free magnetism in the interior, and vice versa, and showing that a body is suscepti-

ble of different magnetic Strata.

"A further confirmation of this point he stated to have been furnished by a Steel magnet of the horse shoe form, which had acquired a permanent polarity in one direction, so strongly that the effect of reversing the Poles by a galvanic current, was only transient, the magnet returning to its original polarity on the cessation of the current.

"2. The magnetism of Steel and Soft Iron differ in many particulars; a small steel magnet capable of lifting 10 lbs. was able to confer a more powerful change upon Steel than an electro-magnet which could sup-

port 100.

"The transient effect of a galvanic current on a Steel magnet and on a soft-iron electro-magnet is different.

"3. That he had investigated the best mode of making Electro-Magnets."

Prof. Hare made a communication supplementary to his verbal remarks offered at the last meeting:

"From certain theoretical views in regard to the formation of the oil of Wine, he was induced to attempt the combination of sulphuric acid with the bases of the essential oils; he had obtained by the action of Sulphuric acid on the oil of turpentine a yellow liquid which by the addition of ammonia gave ether, and a liquid resembling the oil of wine but differing from it in fragrancy, &c. This liquid which he provisionally termed sulphate of terebenthine; potassium bright after a week and a sulphate of sassafrine strikes them gives a beautiful red colour, with sulphuric acid. He had succeeded in combining sulphuric acid with various essential oils, or their carburetted hydrogen bases; having failed only in relation to oil of cinnamon. Dr. Hare showed specimens of pure oil of wine, and of the sulphates of terenbenthine and sassafrine."*

The death of Dr. Ed. Stevens, of Santa Cruz, "an early member of the Society," Sept. 26, 1834, was announced by Dr. Bache.

1835. May 15. (Present, 12. Col. Dayton in the Chair; A. D. Bache, Lea, Vaughan, Lukens, Hays, Merrick, Pickering, Espy, Mease, Courtenay, McEuen.)

Acknowledgments for Transactions I, i, from the Geological Society of London, L. and P. S., Manchester, Society of Arts, Zoological Society, and London Institution; and for Transactions IV, iii, for the L. and P. S., Manchester.

^{*}This passage is verbatim.

Letter from the Royal Society, London, respecting Medals to be awarded in 1837; ordered published in the Journal of the Franklin Institute and Silliman's Journal.

Donations from nine sources: For the Cabinet from two persons. The collection of plants presented by Dr. C. W. Short, of Lexington, Ky., was referred for examination to the Committee on Natural History.

Committee on Fisher's Coins reported, and was discharged.

"Contributions to the Geology of the Tertiary formations of Virginia," by Henry D. Rogers and W. B. Rogers, was read and referred to Pickering, Nicklin, Griffith.

1835. June 12. Special Meeting. (Present, 28. DuPonceau in the Chair; Chapman, Kane, A. D. Bache, Vaughan, Griffith, Moore, Pickering, Randolph, Tidyman, C. C. Biddle, Espy, T. R. Peale, Gilpin, Raguet, H. D. Rogers, N. Biddle, Lukens, Meredith, Merrick, T. Biddle, Major Bache, Emerson, Bell, Horner, Condy, Courtenay, Tanner.)

[A blank page was to have received the minute of the Report of the Physical Society. A loose paper, dated December, 1853, states that "this Special Meeting probably related to the Ordinance of Councils, passed May 28th 1835, appropriating \$2500 towards the expense of purchasing instruments for an Astronomical Observatory, provided the Society contributed an equal sum. (Signed) F. B." (Franklin Bache?)]

1835. June 19. (Present, 20. DuPonceau in the Chair.)

Donations from two academies and ten persons; and one for the Cabinet from M. Ramon de Sagra.

"Com. on Collecting funds for the erection of Astronomical Observatory:" N. Biddle and Dr. McEuen were added to the Committee. Dr. Chapman reported progress.

1835. July 10. Special Meeting. (Present, 10. Duponceau;

Chapman, Kane, Meigs, Vaughan, Patterson, Pickering, Lukens, Bell, Moore.)

Marshall's death: "The President stated that the meeting was called for the purpose of taking measures to do honor to the memory of their late member Chief Justice Marshall." The following preamble and resolutions, presented by Dr. Chapman, were adopted:

"The American Philosophical Society having heard with the deepest sorrow of the death of their illustrious Associate Chief Justice Marshall, and being eager to evince their Affectionate Veneration for his Memory do

Resolve, That, as a manifestation of their Sensibility on this melancholy occasion the members of the Society will wear the usual badge of mourn-

ing on the arm for thirty days.

Resolved, That their associate, Judge Hopkinson, be appointed to prepare an obituary Notice commemorative of the eminent virtues, talents and services of the deceased, to be inserted in the Volume of the Transactions of the Society now in the press.

Resolved, That their associate, John Sergeant, Esquire, who had been selected by the Bar of Philadelphia to deliver a funeral Oration on the deceased, be desired to express in his Discourse in a particular manner the

Sympathetic feelings of this Society.

Resolved, That Peter S. Duponceau Esquire, as President of the Society be directed to transmit a copy of these Resolutions to the family of the deceased, with a letter of condolence on the afflictive bereavement, which they have sustained."

Resolutions to be published in the daily papers.

1835. July 17. (Present, 32. DuPonceau in the Chair; Drayton, Tanner, F. Peale, Gummere, Baldwin, Hodge, Wharton, Wood, and others.)

Donations from eight sources.

Committee on Gummere's paper reported for its publication.

Committee on Rogers & Bro.'s paper reported for its publication.

The death of Prof. T. P. James, University of Pennsylvania, was announced by Dr. Hodge; who was appointed to prepare "an obituary notice."

PROC. AMER. PHILOS. SOC. I. xliii. PRINTED OCTOBER 21, 1884.

Tornado of New Brunswick: Mr. Espy described "the late destructive storm at & near New Brunswick," New Jersey, from observations by himself and Prof. Bache; "showing, first, that on the course of the Storm, there was an upward motion in the centre & outward at the top, & inward below; that this moving vacuum varied in the distance of its lower point from the earth; that it moved irregularly forward in a general eastwardly direction before reaching New Brunswick, sometimes pausing in its course.—The facts proving this point were stated; & diagrams, made from angles taken with the compass, were exhibited."

"Prof. Hare made some remarks in which he attributed Tornadoes to the action of Electrical Currents."

New Members elected: Prof. Wm. B. Rogers, of William and Mary's College, Virginia; Mr. Thomas Sully, of Philadelphia; Mr. Charles A. Agardh, of Lund, Sweden.

1835. Aug. 21. (Present, 9. DuPonceau; Kane, Vaughan, Patterson, Pickering, Emerson, Lukens, Baldwin, Wood.)

Donations from twelve sources. A metallic *Thermometer* made by Moxtandon, of Washington, was presented by Mr Kane.

"Obs. on the Mortality of Philadelphia under the age of puberty, showing the excessive proportion of the Male over the Female deaths, & the particular sources from which it proceeds," was communicated by Dr. Emerson "without a view to publication."

A Dialytical Telescope, by Plöffel, of Vienna, and Pearson's Introduction to Practical Astronomy, imported by Mr. Vaughan, being offered to the Society at cost of importation, "It appearing that the Telescope was of superior character, & such as will be required for the Observatory of the Society, it was

[&]quot;Resolved, That the Society accept the offer of Mr. Vaughan, provided the expense shall not exceed \$200."

1835. Sept. 18. (Present, 17. DuPonceau in the Chair.)

Acknowledgment of Transactions IV, ii, from Royal Academy, Berlin.

Binney's Eulogium on Marshall: Invitation from City

Councils.

Donations received from three sources.

Descriptions of Megaspera and other new shells by Mr. Lea, read by Dr. Hays; "not intended for immediate publication."

A necrological notice of Simon De Witt (with T. Romeyn Beck's Eulogy of De Witt), was presented by Mr. Kane.

Observations on the New Brunswick and other tornado localities visited by him in August last, were described ver-

bally by Mr. Espy.

Observations on the Tides along our Atlantic coast, for twenty days during June last, by order of the General-in-Chief United States Army at the request of the British Admiralty, to be connected with like observations in England, France and their colonies, were described by Prof. Bache.

Halley's comet: Prof. Patterson stated that it had been seen by himself and others "a few evenings since," as a nebula, and "was now visible through a common spy-glass."

Mr. Espy requested the members to coöperate with the Committee of the American Philosophical Society and Franklin Institute on Meteorology, "to extend the list of observers."

The death of the Chev. John M. DuPonceau, of La Vendée, was announced by Mr. Vaughan, and the President was requested to prepare an obituary notice.

The death of Jos. Roberts, Jr., was announced by Prof. Bache, and "Prof. Dan. B. Smith was requested to present the Society a Necrological notice of our deceased member."

1835. Oct. 2. (Present, 16. DuPonceau in the Chair.) Donations from eleven sources (two individuals).

Donations for the Cabinet from Mr. Hassler.

"On the alleged influence of Colours on the radiation of non-luminous heat." Verbal communication from Prof. Bache.

1835. Oct. 16. (Present, 21. DuPonceau in the Chair.)

Donations from six sources. Thanks voted to the Geological Society of France through M. Roux de Rochelle. [Probably the Geographical Society; for] "Dr. Mease stated that he possessed the Vols. of the prior series of the Trans. of the Geograph Soc. of France, which were at the service of the Society." Offer accepted, and thanks voted to Dr. Moore.

Necrological Notice of Chev. DuPonceau, read and laid on the table.

"On the differences of longitude of several places in the U. S. as determined by Obs. of the Solar Eclipse of Nov. 30, 1834," by Ed. H. Courtenay, Professor of Mathematics, University of Pennsylvania; referred to A. D. Bache, Patterson, Lukens.

Gas introduced: A Com. consisting of Dr. Patterson, Mr. Vaughan, Mr. Wharton, was appointed to consider the propriety of introducing gas for lighting this building, with power to take order.

No election of members because no quorum.

1835. Nov. 6. (Present, 20. Judge Hopkinson in the Chair.)

Donations from six sources.

Hall rented for City Offices: Resolution of the Committee of Councils:

"Resolved, That a Chairman of the Com. on City Property be requested to ascertain from the A. P. S. upon what terms the Hall of said Soc. could be obtained for City Offices"; and a Com. consisting of Dr. Patterson, Prof. Bache, Dr. Chapman, and Mr. Strickland, was appointed to confer with the Com. of Councils.

Committee on Courtenay's paper reported it for publication.

Committee on lighting the Hall with gas, reported action "as far as to authorize the introduction of the pipes."

Magellanic premium: "The papers relating to the invention of M. Planton of Philadelphia, & for which he applies for the Mag. Premium were laid before the Society.... & referred to the Board of Officers."

1835. Nov. 20. (Present, 19. DuPonceau in the Chair.)

Donations from eight sources.

Planton's invention being patented, could not compete for the Magellanic Premium. This was the report of the Board of Officers.

Committee of Conference with City Councils reported progress.

"Attempt to show that tornadoes or Water spouts may be produced by & are the consequence of an electric discharge," by Dr. Hare who wished it to lie for the present on the table of the Society.

Star Shower: "Facts respecting the Meteoric Phenomena of Nov. 13, 1834, communicated (to Silliman's Journal) by Denison Olmstead, Prof. N. Ph., Yale Coll." a printed paper, was "presented as a verbal communication," by Prof. Bache, who said that it was intended to show "that, from the new facts presented, the Meteors seen in England were certainly ordinary meteors;" concluding "that no satisfactory evidence has yet been presented of a Meteoric display which in numbers, in peculiarities, or in connexion, as parts of the same display, & extent conjoined, was such as to connect it with the meteoric display of 1833."

MS. Maps of Cuba, St. Domingo and Porto Rico: The Librarian was requested to procure for the Society these maps to which he had called their attention.

"The Monuments of Egypt & Nubia." "The president stated that certain members would agree to pay half the

cost of a new work on the Antiquities of Egypt.... about to be published under the direction of the Grand Duke of Tuscany, provided the Soc. would pay the other half amounting to 400 francs." Offer agreed to.

Prof. Bache was permitted to refer to the Minutes of a verbal communication made by him in November, 1834.

1835. Dec. 4. (Present, 12. DuPonceau in the Chair.)

Donations were received from three sources.

The President stated that half the cost of the book on Egypt had been subscribed.

Committee on Physical Science (Prof. Bache) reported that the United States Secretary of War acceded to the Committee's request "to have observations made on the sudden rise & fall of the waters of the Northern Lakes."

Publication Committee's annual report presented.

Lunar tables, by Dudley Leavitt, of Meredith, N. H., was presented, and referred to A. D. Bache, Courtenay, Patterson.

The death of Judge Tait (October 7) was announced, and Mr. Lea appointed to prepare an obituary notice.

1835. Dec. 18. (Present, 13. DuPonceau in the Chair.)

Donations from the Commissioners of the British Records and seven other sources. ("Report on the Geology, &c., of Mass.," from the Governor of Massachusetts to whom the President was requested to return thanks.)

A donation to the Cabinet from Dr. Mease.

Committee on Leavitt's paper, reported "that the tables of Mr. L. have long since been superseded by more complete methods."

Finance Committee reported on the Treasurer's accounts. Appropriations "for the current year:" Hall expenses, \$150; Binding, \$100; Scientific Journals, \$200; Current expenses, \$200.

The death of Ben. Vaughan, of Hallowell, Maine, a member, was announced, and Mr. Merrick appointed to prepare a notice.

Extra-Magellanic Premium: A communication accompanied by a sealed paper endorsed "Investigator," was presented and referred to the Board of Officers.

Prof. Bache, in reference to "the hypothesis advanced by Prof. Phillips, of London, to explain the greater quantity of rain which falls at the surface of the ground than at a height above it," claimed it for Dr. Franklin, whose letter to Mr. Percival, of England, first published in the Manchester Memoirs for 1784, contains the hypothesis referred to.

1836. Jan'y 1. (Present, 16. V. P. Patterson in the Chair; F. Bache, A. D. Bache, Vaughan, Ord, Lea, Nulty, Espy, Hembel, T. Peale, Courtenay, Hays, Mease, Emerson, Coates, Harlan.)

Election of Officers reported; V. P. Ord in the Chair to call the meeting to order; after the report he yielded the Chair to Dr. Patterson, who had been elected in his place, Mr. Ord having declined reëlection as Vice-President. Twelve votes only had been polled at the election in the afternoon.

ANNUAL ELECTION OF OFFICERS.

President-DuPonceau.

Vice-Presidents-Chapman, Hopkinson, R. M. Patterson.

Secretaries-F. Bache, Kane, A. D. Bache, Meigs.

Curators—Wetherill, Griffith, Lea.

Treasurer-Vaughan.

Donations of books from Harlan and DuPonceau.

Transactions American Philosophical Society V, ii, reported "ready for publication."

The death of Dr. Hosack, Dec. 22, 1835, was announced; Dr. Chapman appointed to prepare a notice.

1836. Jan'y 15. (Present, 30. Patterson in the Chair;

Hopkinson, Kane, Meigs, A. D. Bache, Lea, Griffith, Vaughan, Coates, McEwen, Harlan, La Roche, F. Peale, T. Peale, Fisher, Tanner, Carey, Hays, Hembel, Sully, Robinson, Bancker, Pickering, Courtenay, McIlvaine, Espy, Emerson, Bell, Mease, Nulty.)

Donations of books from seven sources. Thanks voted to Louis Phillipe through the French Consul, M. Dannery.

Transactions American Philosophical Society V, ii, reported "published."

Board of Officers reported progress on the Meteorological paper.

Franklin's (and his associates) right to the credit of "the discovery of the non-conducting power of ice for electricity recently investigated by Dr. Faraday," was the subject of a verbal communication by Prof. Bache.

The death of Roberts Vaux was announced by Mr. Fisher, who was appointed to prepare an obituary notice.

"Resolved, That the Society feel a deep regret for the loss of their late fellow member the Hon. Roberts Vaux, whose many virtues & services to his fellow citizens have gained for him the high esteem of the members of this society.

"Resolved, That a copy of these resolutions be transmitted to the family of the deceased, with the condolence of the Society in their bereavement."

List of Surviving Members read over.

The death of Wm. Humboldt, April 8, 1835, was reported.

Standing Committees for 1836 were appointed:

Finance—C. C. Biddle, Ord, McIlvaine.

Publication-Lea, Griffith, Hays.

Hall-Strickland, Kane, Vaughan.

Library-Moore, Pickering, Hays.

Librarian elected—Vaughan.

New members elected: C. C. Leonhard, of Heidelberg, Germany; C. G. Reinwardt, of Leyden; Don Manuel Naxera, of Mexico; Chev. Morelli, Consul General of Naples; Job R. Tyson, of Philadelphia; Nathan Dunn, of Philadelphia; Prof. John Griscom, now of Philadelphia.

1836. Feb'y 5. (Present, 26. Judge Hopkinson in the Chair; new members: Dunn, Griscom, and Morelli, introduced.)

Donations of books from four sources.

Extra-Magellanic essay by "Investigator": Report of the Board of Officers submitted the following resolutions:

- 1. Resolved, That in the opinion of the officers and council the communication of Investigator contains a theory of rain, &c., based upon physical principles admitted to be correct and which theory may lead to useful discoveries in Meteorology.
- 2. Resolved, That this communication is such a one as is referred to in Art. 6 of the Condition of the Extra Magellanic Premium.
- 3. Resolved, That the officers and council recommend the communication above referred to for the award of an Extra Magellanic premium of \$45.
- 4. Resolved, That the author be requested to adapt his paper to publication in the Transactions of the Society, his communication to be submitted to a committee, as usual.

The report being accepted, in was

"Resolved, That the Society will at its next stated meeting proceed to the consideration of the Resolutions presented and to final adjudication"

Ordered, that due notice of time and place of meeting and business "be given by public advertisement."

"Naiades," a continuation of Mr. Lea's former paper, was read by him, and at his request the Secretary was directed to publish an abstract "in such journals as may be selected."

Mr. Vaughan verbally described the Berlin Academy's prizes in Natural Philosophy and Mathematics.

1836. Feb'y 19. (Present, 21. In the absence of the President and Vice-Presidents, Dr. Mease in the Chair; new member, Tyson, introduced.)

Donations from Griscom, Wharton, Walker, and Troost. Turkish and Arabian books deposited by John P. Brown. The stated business was, on motion of Mr. Nulty, postponed to the next meeting, public notice to be again given.

Mr. Lea received permission to change two of the specific names in his papers of Dec. 19, 1834, and Feb. 5, 1836, viz., U. carolinensis to U. vaughanensis, and U. vittatus to U. nolatus.

1836. March 4. (Present, 24. DuPonceau in the Chair; Kane, Meigs, A. D. Bache, Griffith, Vaughan, Mease, Nulty, Col. Biddle, Morgan, Coates, Tyson, Pickering, Carey, Griscom, Lukens, Hays, Espy, Bancker, Courtenay, Fisher, Mc-Ewan [sic], Major Bache, McIlvaine.)

Donations from U. S. Secretary of State, J. R. Ingersoll and DuPonceau.

Report of Board of Officers on "Investigator" read. Minority report * also read, by Dr. Mease, "dissenting from the resolutions, recommending the award of an Extra-Magel lanic Premium. Mr. Nulty read a paper, dissenting from the same resolutions, and stating reasons for his dissent." After discussion, the following resolution offered by the Board was adopted:

"Resolved, That this communication is such a one as is referred to in Article 6 of the conditions of the Extra-Magellanic premium."

Then, on motion, it was

- "Resolved, That the Society will now proceed to ballot on the question, whether an extra-Magellanic premium of \$45 shall be awarded to the author of the paper signed 'Investigator,' a white ball being counted as a vote in the affirmative.
- "The balloting having been concluded, the ballots were counted by the President, who announced that the question had been decided in the affirmative. The following resolution was then adopted:
- "Resolved, That the author be requested to adapt his paper to publication in the Transactions of the Society, his communication, however, to be submitted to a Committee as usual.
 - "The letter containing the real name of the author of the

^{*}These were times of hot controversy respecting the three meteorological theories of Hare, Espy and Redfield.—J. P. L.

memoir was then opened by the President, who reported that the author of the memoir signed 'Investigator' was James P. Espy, of Philadelphia.

"The Treasurer was directed to attend to the conferring

of the extra-Magellanic premium or medal."

1836. March 18. (Present, 20. Duponceau in the Chair Prof. Rogers, Major Bache, Espy, and others.)

Donations from five persons and the Council of Mines.

The deaths of Judge Charles Smith, of Lancaster; of Julius Klaproth, of Paris; and of Dr. Hopkinson, of Philadelphia, were announced by Dr. Bache. Obituary notices of C. Smith by Mr. DuPonceau, and of Hopkinson by Dr. Chapman were requested.

Mr. Pickering stated that he possessed a catalogue of Alex. McClure, of New Harmony, and was authorized to exchange

This and the books.

A catalogue of books offered for sale by Mr. Vaughan, were referred to "Messrs. Hays, Kane, Lea, Fisher and Bache."

"The librarian was authorized to procure the volumes necessary to complete the set of the R. S. Trans., London."

Communication on collections for Observatory requested

to report progress.

Treasurer "authorized to deliberate, vote and act in behalf of the Society, at any meeting or election for Officers in the Philadelphia Contributionship for the Insurance of Houses from Loss by Fire."

1836. April 1. (Present, 20. DuPonceau in the Chair.)

Donations of books from the Royal Society, London, and six persons.

Donations for the Cabinet from Mr. Huntingdon, of Natchez, J. Hitz, Hopkinson, White and Nelson.

Committee on the two Catalogues; continued.

- " Essay on Tornadoes;"
- " Essay on Etherization;"
- "Account of a process for procuring Sweet Spirits of Nitre;"
 - "A notice of the Collapse of a Reservoir;"
- "Account of an Air-pump for condensing and exhausting;"
 - "Account of a newly arranged Electric machine;"
 - "Account of an improved Barometer gauge Eudiometer;"
- "Verbal notice on the Climate of Pennsylvania;" all presented by Dr. Hare and referred—the chemical papers, to F. Bache, A. D. Bache, Dr. Wood; the remainder, to Patterson, A. D. Bache, Espy; these committees to meet at an adjourned meeting "to-morrow evening;" H. D. Rogers being substituted on the Chemical Committee for and at the request of A. D. Bache, excused.
- 1836. April 2. Adjourned meeting. (Present, 8. Du-Ponceau; Chapman, Patterson, Kane, Vaughan, Espy, Emerson, Hare.)

Committee (not Chemical) reported in favor of publishing Dr. Hare's papers: 1. On an Air-pump; 2. On a Barometer; 3. On an Electrical machine; 4. On the "rationale of a singular instance of the collapse of a reservoir, &c.;" 5. On the causes of the tornado, or water-spout. Report accepted, and papers ordered for publication.

Dr. Emerson's request that a copy of his Franklin Institute lecture in Nov., 1833, on the Star shower "be filed

among the archives" was granted.

"Notes and diagrams illustrative of the directions of the forces acting, &c., in parts of the *Brunswick Tornado* in June, 1835," by Prof. A. D. Bache, was presented by Dr. Patterson, and referred to Patterson, Espy, Emerson.

1886. April 15. (Present, 25. DuPonceau in the Chair; Condie, Coates, Espy, Emerson, Fisher, Major Bache, Lu-

kens, Carey, McIlvaine, T. Peale, Gilpins, Dr. Randolph, Rogers, Dr. Haigh, Tyson, and others.)

Donations from four persons.

Committee on the four chemical papers of Dr. Hare, reported in favor of the publication of, 1. Of Sulphate of etherine, or oil of wine; 2. On nitric ether; 3. Of the reaction of the essential oils with sulphurous acid; 4. Of Sassarubrin, a resin evolved by Sulphuric acid from Oil of Sassafras. Report accepted, and papers ordered for publication.

Committee on A. D. Bache's "Notes, &c.," reported in

favor of its publication, which was so ordered.

"Memoir containing deductions from observations made on the *Spout* which occurred at or near New Brunswick June 19th last," by Mr. Espy, was read and referred to A. D. Bache, Emerson, Patterson.

Violent storms on the same day were described by Dr. Mease, as having occurred in Cecil Co., Md., Luzerne Co., Pa., and in [blank] Co., Va. Another tornado on the same day upon the Kiskiminitas, was described by Judge Hopkinson, who had crossed it.

The death of Wm. Rawle was reported, and the President was requested to prepare an obituary notice.

Nomination for membership, "numbered 1," was read.

New members elected:

J. S. DaCosta Macedo, Sec. Acad. Lisbon.

Nicholas Carlisle, LL.D., of London.

Granville Penn, of Stoke Park, England.

1836. May 6. (Present, 18. DuPonceau in the Chair; Mr. Dunn, Dr. Homer, T. Peale, F. Peale, and others.)

Donations from Ord, A. D. Bache, Nicklin, Duponceau, Niles, of Baltimore, and the Albany Institute.

Committee on Espy's paper on the "New Brunswick Spout" reported in favor of its publication.

"Thornton's method of making Polygons" was read and referred to A. D. Bache, Patterson and Courtenay.

"On the relative horizontal intensities of terrestrial magnetism at several places in the U.S.," by Profs. Bache and Courtenay, was read and referred to Patterson, Lukens and Espy.

The death of Destutt Tracy was announced, and the President requested to prepare an obituary notice of the deceased.

Peter A. Browne: Judge Hopkinson submitted the following preamble and resolution, which were laid on the table for consideration at the next meeting:

"WHEREAS, Our fellow Citizen, Peter A. Browne, Esqre, has devoted much of his time and attention to Scientific pursuits, especially in the department of Geology, and is now about to depart for Europe with the intention of encreasing [sic] his knowledge,

"Resolved, That the President of the Society be requested to address a letter, expressive of the respectful sense entertained by the Society of the zeal and success with which he has prosecuted his studies, and the hope that he may receive in Europe the facilities he may desire for the promotion of the valuable objects of his visit."

FRANKLIN'S PORTRAIT: "Mr. Vaughan mentioned that the Portrait of Franklin in the possession of the Society is a Copy by Martin of an original by the same Painter, and not a Copy by Peale, as heretofore supposed."

1836. May 20. (Present, 17. DuPonceau in the Chair.)

Donations from six institutions and two persons. The President was desired to answer the letter from the London Geographical Society.

Committee on Bache and Courtenay's paper reported in favor of its publication.

"A number of Observations of the Recent Solar Eclipse," were communicated by Dr. Patterson, at whose request Courtenay, Patterson and A. D. Bache were appointed "a Committee to complete the observations and to make the necessary calculations." Prof. Bache was requested to prepare those "communicated this evening, for publication in

the Journal of the Franklin Institute, as an extract from the proceedings of this Society."

Espy's Extra-Magellanic premium paper, now presented for publication in the Transactions, was referred to A. D.

Bache, Emerson and Patterson.

"Particulars of the New Brunswick Tornado," were read from a letter from Dr. Janeway, of New Brunswick, to Dr. Patterson. This letter was referred to A. D. Bache, Emerson and Espy.

Descriptions of "several articles of Chemical Apparatus, &c.," by Dr. Hare, were read and referred to F. Bache, H. D. Rogers and Dr. Wood.

"A remarkable meteor seen at Pottsville, May 12th," was

verbally described by Mr. Espy.

Catalogue: On motion of Mr. Kane, "a Committee to prepare a new Edition of the Society's Catalogue, with authority to employ the necessary assistants," was appointed: Du-Ponceau, Kane, A. D. Bache, Vaughan.

Dr. Mease enumerated the "places at which violent storms occurred, on or about the 19th of June last, the date of the New Brunswick Tornado."

1836. June 17. (Present 20. DuPonceau in the Chair; Fisher, Tidyman, Baldwin, and others.)

Donations from the British Admiralty, Academy of Sculpture in Brussels; Royal Society, Royal Geological Society, Bailey, of London; Plana, of Turin; Von Hammer, Quetelet, De Konnick, Count Survilliers, and nine persons in the United States. The President reported his acknowledgment to the Geographical Society, in Paris.

· Committee on "Mr. B. Thornton's method of making polygons," reported a recommendation [not stated], which was accepted, and the Committee discharged.

Committee on Hare's "Improvements in apparatus & manipulation," reported it for publication. So ordered.

"Description of new N. A. insects," a continuation of

Mr. Say's paper, was presented by Mr. Pickering, and referred to the same Committee.

"Obs. of the beginning & end of the late Solar Eclipse," by J. R. Hasler [sic] at Washington, was referred to Committee collecting observations.

The death of Hon. Ed. Livingston, May 23, reported. Mr. H. D. Gilpin appointed to prepare an obituary notice.

"Committee on collections for the Observatory," was "requested to have the amount subscribed Collected & paid over to the Treasurer of the Society."

Committee of Physical Science was "requested to present a plan & estimate for the erection and furnishing of an Astronomical Observatory."

A Committee "to take measures to have the transit instruments in the Society's Hall put in order," was appointed: Patterson, Lukens, A. D. Bache.

The Secretaries were authorized "to publish in any such Journals as they may select brief notices of the papers presented to this Society for insertion in their Transactions."

Prof. Bache's request "to use the plates of his Memoir on the variation of the needle, published in 1833, to accompany a summary of the paper for the Journ. Franklin Inst.," was granted.

1836. July 15. (Present, 12. DuPonceau in the Chair.)

Donations from ten sources.

Committee on Physical Science reported progress.

Committee on the Transit instruments reported progress.

Dr. Bache for the Secretaries reported progress in preparing a list of Members.

"Obs. on the late Solar Eclipse," made at West Hills, Long Island, by F. I. Ferguson, were referred to the Committee on collecting observations.

"Description of eleven species of new shells" [enumerated] by Isaac Lea, and his "Synopsis of the Family Naiades," "which he intended to print with a view of correction and

subsequently to offer for publication to the Society," were presented, and referred to T. Peale, Griffith, Nickliu. "Mr. Lea requested to change in his former paper the name of Symphonota Bengalensis to Unio Bengalensis, and of Unio Pometus to U. Fisherianus." Mr. Lea's previous papers were then referred to the same Committee.

The death of James Madison, Esq., was announced.

The President "was requested to present to Mrs. Madison the condolence of the Society on the decease of her venerated Husband;" and C. J. Ingersoll was requested to prepare an obituary notice of the deceased.

The death of the Rev. Dr. Prince, of Salem, was an-

nounced.

No election of new members for want of a quorum.

1836. July 19. Special Meeting. (Present, 16. DuPonceau in the Chair.)

Bishop White's death the cause of the meeting. The following resolutions were adopted:

"Resolved," That the American Philosophical Society entertaining the deepest sense of the loss they have sustained in the Death of their beloved associate, the Right Rev^d Bishop White, one of the Founders of the Institution, will, in testimony of their respect for his memory, wear the usual Badge of Mourning, on the left Arm for thirty days.

"Resolved, That the Society will meet at their Hall to-morrow morning

at 10 o'clock, to attend in a Body the Funeral of Bishop White.

"Resolved, That the Rev^d Dr. W. H. De Lancey be appointed to prepare an obituary notice of the deceased, to be read before the Society, and to be preserved in its archives."

1836. Aug. 19. (Present, 15.)

N. Carlisle's letter of thanks for election was read; with letters of acknowledgment for copies of Transactions American Philosophical Society, Vol. V, Part ii.

Donations from fourteen sources. For the Cabinet from R. C. Taylor.

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The President reported that he had written a letter of condolence.

Committee on Say's papers on new Coleopterous Insects reported in favor of their publication, which report was accepted.

Committee on Lea's papers: 1. Nineteen species of freshwater shells; 2. Its continuation; 3. On a new general *Megaspira*; 4. Continuation of "Naiades;" 5. Eleven new species of fresh-water and land shells, reported in favor of their publication. Report accepted. Mr. Lea then presented "A Continuation of description of new fresh-water & land shells," which was referred to the same Committee.

"Notice of a vein of bituminous *Coal* recently explored in the vicinity of the Havana in Cuba," by R. C. Taylor, F.S.S. and J. G. Clemson, Esq., was read and referred to Pickering, Lukens and Lea.

Auroral disturbance: Prof. Bache said "that the Horizontal Intensity and the Variation of the needle had been affected during the auroras of Thursday, Friday and Saturday last, . . . attended by a fine display of diverging beams"; and "that during the brilliant display in April last, the horizontal needle had moved in a contrary direction to its usual motions on such occasions. The beams of this aurora conveyed to a point S. & E. of the Zenith, at or near the pole of the dipping needle."

A Letter of Ed. Shippen in relation to the Stamp Act, dated April, 1766, was read by Dr. Mease, and ordered to be deposited in the Archives.

"Letter of Nomination No. 1 was read & put on file."

Antiquitatis Americana, and Antiquitatis Brittanica, published at Copenhagen, by the Society of Northern Antiquities [sic] might be subscribed for by the Librarian.

1836. Sept. 7. Special Meeting. (Present, 15. DuPonceau in the Chair; Espy, Bell, H. D. Rogers, T. Peale, F. Peale, Mease, Hays, Pickering, Emerson, Bancker, and five officers.)

Wilke's Expedition: Letter from the Secretary Navy, United States, August 21, "requesting the Society to indicate subjects of inquiry & research for the expedition about to sail for the South Seas," and "to suggest a suitable organization of the scientific corps... & to nominate persons qualified to fill its several departments." "On motion of Dr. Chapman it was

"Resolved, That it is inexpedient for the Society to nominate candidates for the several offices of the expedition."

The letter was then referred to a Committee of Seven: DuPonceau, Patterson, Chapman, Rogers, Espy, T. R. Peale, and Pickering, "to take order absolutely on so much of the letter as related to the organization of the Scientific departments of the expedition, & the indication of subjects of enquiry," the Society respectfully declining to nominate persons.

1836. Sept. 16. (Present, 18. DuPonceau in the Chair; Patterson, F. Bache, Kane, A. D. Bache, Vaughan, Mease, Lukens, Hays, Fisher, Espy, Harlan, Emerson, T. R. Peale, Pickering, T. I. Wharton, Tyson, McEwan.)

Royal Asiatic Society acknowledged receipt of Transactions V, ii.

Donations received from fifteen sources; to Mr. DuPonceau "special thanks" were voted "for the valuable donation of books made by him & through him to the Society."

Committee on Taylor's paper reported it for publication. Committee on Instructions for the Antarctic Expedition reported progress.

Committee to obtain the Minutes of the Provincial Council, by joint application from the American Philosophical Society, and the Historical Society to the Legislature: Du-Ponceau and Vaughan, appointed.

"Accounts of Tornados occurring on the same day as the New Brunswick tornado, June 1835 & on other days of the same month, collected by Dr. Mease," was communicated. The death of Sir R. Liston, of Edinburgh, was announced.

"An instrument, contrived by Prof. Bache & executed by Mr. A. Mason, for oscillating a magnetic needle in a rarified medium in determining horizontal intensity," was exhibited by Prof. Bache.

Letters of nomination Nos. 3 and 4 were read and filed. Transactions American Philosophical Society New Series; ordered to be sent to the Academy Science, Guatemala.

1836. Oct. 7. (Present, 17. DuPonceau in the Chair; Lea, Short, and others.)

Dr. Morton's letter was read (as Secretary Academy Natural Sciences, Philadelphia), announcing the reception of the first series of Mr. Townsend's Collections in Natural History, and Mr. T.'s wish that no division should be made until his return.

Donations from six sources.

Committee on Instructions, South Sea Expedition, continued.

Committee on Erection of Astronomical Observatory ordered to report at next meeting.

Dr. Patterson appointed a member of the Com. vice Prof. Bache, going to Europe.

Transactions American Philosophical Society reported sent to the Astronomical Society, Guatemala.

1836. Oct. 21. (Present, 22. DuPonceau in the Chair.)

Donations from eight sources.

Committee on Instructions, South Sea Expedition, reported progress.

The Committee on Astronomical Observatory reported progress, and were granted more time.

Committee to confer with the Historical Society on a Memorial to the Legislature reported, and were "authorized

to unite with a Com. of the H.S. in taking order on the matter referred to them."

"Nomination of membership numbered 5 was read."

New members elected: 1. Col. Joseph G. Totten, United States Engineers; 2. M. Roux de Rochelle, Paris; 3. Dr. Mariano Galvez, Governor of Guatemala; 4. Edwd. Turner, of London, M.D., F.R.S.

1836. Nov. 4. (Present, 20. DuPonceau in the Chair; Rogers, Hare, T. Biddle, Steen Billé, and others.)

Col. Totten's acknowledgments for election were read.

Mr. Carlisle's acknowledgments for election were read.

Dr. Griffith's resignation as Curator, and member of Publication Committee in consequence of his removal to Baltimore, was read and accepted.

Donations from the Pennsylvania Geological Society, the Linnean Society, London, and ten persons were announced.

Committee on Instructions South Sea Expedition reported their duties performed, and were continued for the purpose of preparing a written report.

Committee on Astronomical Observations reported pro-

gress.

"Prevailing winds & state of Thermometer observed at Fort Union, Upper Missouri, near the mouth of the Yellow Stone River from 1 Jan. 1834, to 27 June 1836," by C. J. A. Hamilton, Esq., was presented and referred to Patterson, Espy and T. R. Peale.

Additional descriptions of Fresh Water Shells, by Mr. Lea, were referred to former Committee.

Geological Survey: "Prof. Rogers announced as the result of systematic investigations, during the past summer, that the several Coal formations bituminous & anthracite (of the State) rest on the same particular basis."

1836. Nov. 18. (Present, 22. DuPonceau in the Chair; Dunglison, Billé, Bancker, Nuttall, Dunn, Harlan, and others.)

Royal Academy Lisbon, acknowledged receipt of Transactions V, ii.

Donations of books from two Societies and eight persons.

Committee on Instructions South Sea Expedition, reported that they had "performed their duty with zeal and fidelity;" had at their first meeting subdivided the labor. each "undertaking to report on the Subject with which he was most familiar;" had at the Second meeting read the whole, "corrections being made by a majority of votes," and "committed the whole to one member to revise & connect together, with proper introductory & concluding matter, all which being approved, a fair Copy was made, containing 36 folio pages, which was signed by the members individually, & was carried to Washington by one of the members, Mr. Peale, who delivered it to the Hon. Secretary, who expressed himself fully satisfied therewith; and that the individual draughts are in the hands of the Treasurer to be disposed of as the Society may direct. Phil. 18 Nov. 1836;" signed Peter S. Duponceau, Chairman. Report accepted, Committee discharged, and Treasurer directed to preserve the documents in the archives.

Committee on Lea's "Continuation &c.," reported it for publication. So ordered.

A letter by Mr. Duponceau on "Languages styled *Ideographic*," was read by Mr. Peale, and referred to Patterson, Kane, Dunglison.

The letter from the Royal Academy, Lisbon, "announcing the transmission of several very valuable works, & communicating the wishes of the Academy for a more active scientific intercourse . . . " was read, and the Secretary was instructed to communicate "a reciprocation on the part of this Society, of the liberal feeling and friendly wishes expressed in the letter read this evening."

Nominations of membership numbered 6, 7 and 8, were read.

1836. Dec. 3. (Present, 21. Duponceau in the Chair.)

Answer of the United States Secretary of Navy to the Committee South Sea Expedition was read.

Donations of books received from seven sources.

Committee on Memorial reported that they had conferred with a Committee of the Pennsylvania Historical Society, and "agreed on a joint memorial to be presented to the legislature at the opening of their session; a copy to be sent to the Governor, Patron of this Society, soliciting his support;" a draught of which copy was presented, the report accepted, and the Committee discharged.

Committee on Duponceau's Ideographic Systems reported it for publication.

Publication Committee reported that they had published Vol. V, Part ii, and printed all the papers for Part iii. List of donations for the volume nearly ready. Vol. VI, Part i, "in a state of progress, many of the plates of the first paper being finished." Detailed account of their proceedings and finances to be deferred until Vol. V is published. Report accepted.

Committee on McClure's and Vaughan's Libraries (March 18, 1836), reported that "they have selected a number of works, the purchase of which they recommend to the Society." The following is a list of titles and prices:

Annual Register, 72 Vols., \$72; Linnæus, 12 Vols., \$11; Rozel, Frogs, 1 Vol., \$12; Ast. tables, 1 Vol., \$2; Olaus Magnus, 1 Vol., \$4; Charlevoix, 6 Vols., \$5; Puissant Geordesic Topograph and Supplement, 4 Vols., \$9; Gualterius, Index of Shells, 1 Vol., \$12: Ponboppidix [sic], \$6; Diplomatic française, \$14; Baker's Chronicle, \$4; Newton's Principia, 4 Vols., \$8; Voyage Pingre Borda, 2 Vols., \$4; Salazar Hydrographie, 2 Vols., \$6; Binney's Coll. Voyage, 5 Vols., \$10; Schaeffer's Insects, 3 Vols., \$24; Cortes New Spain, \$4; Cardenas' Florida, \$5; Garcilaso de la Vega Fernando de Soto, \$5—\$225. Report accepted and purchases ordered.

PROGRESS OF THE SOCIETY.—A Verbal communication was made by the President on the subject of the progress of the Society in the following words:

In the Year 1769 this Society was formed by the junction of two Societies.

Two Years afterwards (1771) the 1st Vol. of our Transactions was published. It did great honor to the Society, and raised our Country in the opinion of the Learned of Europe.

A second Edition was called for and published in 1782.

The 2nd Volume was not published until 1786, fifteen years after the 1st; The War intercepted our labours.

Seven years intervened until the publication of the 3rd Volume in 1793. The fourth was published six years afterwards in 1799.

The fifth three years afterwards in 1802.

Two years afterwards in 1804 we published the first part of a sixth Volume, the second was not published until 1809, five years after the first part, and seven years after the 5th Volume.

Then we went to sleep for 9 years.

Here ended the first series of our transactions, 6 Volumes published in the space of 49 Years, being something less than one volume in Eight Years.

SECOND SERIES.

In the Year 1818, we awoke, & published the first Volume of a new series of our Transactions. The next Year (1819) we published a Volume of Historical Transactions.

The success of this Book made us forget our Philosophical Transactions, yet we were not idle; 4 Years afterwards (1824) we published our Catalogue, which took a long time in preparing.

The next Year (1825) we published the 2nd Volume of our Transactions (new series.)

Five years again we rested; the 3rd Volume was not published till 1830, and the fourth in 1834, four years afterwards, since which, we have been fast advancing.

Volume the 5th 1836, two years interval.

Volume the 6th preparing for 1837.

Thus if as expected we publish a Volume in 1837, we shall have published, including the Catalogue, and The Historical Transactions, eight Volumes in 19 Years, making something less than one Volume every two years, and we may hope hereafter to publish one every year.

1st Series. 1 Vol. in about 8 Years.2nd Series. 1 Vol. in about 2 Years.

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We are advancing and must not lose our Courage; our best publications have followed each other pretty close, and show that the Spirit among us is not extinct. 1836. Dec. 16. (Present, 23. DuPonceau in the Chair.)

Donations for the Library from three Societies and four persons.

For the Cabinet, a specimen of the new coinage of the American Dollar, by Dr. Patterson, who described the devices. A specimen of medal ruling, from Asa Spencer.

Committee of Finance reported the Account of John Vaughan, Treasurer American Philosophical Society, December 16, 1836:

1.	Magellanic fund	balance in	hand	 \$175	40
2.	Rittenhouse "	4.6	6.6	 73	65

\$249 05

- Magellanic extra fund, Interest & Account balanced by payment to Isaac Lea, Treas. Pub. Fund.
 - 4. General account in hands of Treasurer..... \$477 67

Necrological notice of Judge Tait, read by Mr. Lea, and filed away.

Appropriations for 1836: Hall, \$150; Binding, \$100; Journals, \$200; Current expenses, \$200.

Transactions American Philosophical Society: Mr. Fisher described the first form in which they were published, viz., as an Appendix to the American Magazine, printed in 1769; and exhibited copies containing the Transactions American Philosophical Society.

1837. Jan'y 6. (Present, 17. Chapman in the Chair; DuPonceau, Dr. Bache, Kane, Vaughan, Espy, Major Bache, Lukens, McIlvaine, Dunglison, T. R. Peale, Hays, Nuttall, Pickering, Tyson, Emerson, Sully.)

ANNUAL ELECTION OF OFFICERS.

Annual Election of Officers held in the afternoon, reported:

President—DuPonceau.

Vice-Presidents-Chapman, J. Hopkinson, Patterson.

Jan.-Feb.

Secretaries-F. Bache, Kane, A. D. Bache, Meigs.

Councillors-N. Biddle, T. Biddle, Mease, Emerson.

Councillor for one year, vice W. Rawle, deceased, J. T. Fisher.

Curators-Lea, Wetherill, Havs.

Treasurer-Vaughan.

Donations of books from one academy and three persons. Nominations for membership Nos. 9, 10, 11, 12, 13, 14, read.

Committee appointed to consider the advancement of Meteorology in the United States: Espy, Kane, DuPonceau, Patterson, Emerson.

Jan'y 20. (Present, 17. Judge Hopkinson in the Chair.)

Secretary Institute of France acknowledged receipt of Transactions, Vol. V, ii.

Donations from one Academy and six persons.

Committee on Meteorology reported, and were discharged, "the subject having been generally referred to a joint Com. of this Society & the Franklin Institute." Kane and Dunglison were added to the Joint-Committee.

A letter from Chief Justice Gibson, March, 1823, to G. W. Featherstonehaugh, was postponed.

Standing Committees appointed:

Finance—C. C. Biddle, Ord, McIlvaine.

Publication—Lea, Hays, Fisher.

Hall-Strickland, Kane, Vaughan.

Library-Ord, Pickering, Hays.

Librarian elected: John Vaughan.

Catalogue of surviving members "read over."

Death of Wm. Marsden, announced by Mr. Fisher.

Election of new members postponed for want of a quorum.

Feb'y 3. (Present, 20. DuPonceau in the Chair.) 1837. Granville Penn's thanks for election to membership, read. Donations from three societies and seven persons.

"On the consubstantiality of the limestone of the Valley of the Mississippi with the Lias," in a letter from Chief Justice Gibson, was read and referred to Nuttall, Rogers, Lea.

"Observations on bills of mortality with hints for their improvement," by Dr. Mease, was read and referred to Em-

erson, Chapman, Morgan.

Committee on Astronomical Observatory reported "that the appropriate Com." of City Councils are prepared to apply \$2500 to the purchase of Astronomical Instruments, "as soon as the Society shall be prepared to make an appropriation of equal amount." Committee continued.

Nomination No. 15 was read.

1837. Feb'y 17. (Present, 14. DuPonceau in the Chair.)

Donations from three societies and seven persons.

Also, for the Cabinet, "Casts of a series of the *Trilobites* of N. A.," from Jos. Brown of Philadelphia; and "a series of specimens of the *gold rocks* of Burke Co., N. C.," from H. Terry, of Hartford, Conn.

Committee on Astronomical Observations reported

progress.

Committee on Dr. Mease's "Observations on bills of mortality" reported and were discharged; the author receiving "liberty to withdraw the paper from the files."

Nominations Nos. 16 and 17 were read.

1837. March 3. (Present, 21. DuPonceau in the Chair.)

Donations from six persons.

Transactions Vol. V, last part (printed) presented by the Publication Committee.

Committee on Finance reported investments of \$1300, "recently in the Treasurer's hand," in the Lehigh 6 per cent Loan of 1839, "the investment producing a certificate for the sum of \$1313.13."

Obituary notice of Chief Justice Marshall read by Judge Hopkinson, and referred to Chapman, Patterson and Kane.

Committee on Astronomical Observations reported "at

length." Report adopted.

"Contributions to the Geology of the Tertiary Formation of Virginia," by H. D. & W. B. Rogers, was read by H. D. Rogers, and referred to Lea, Hays and Ord.

Megalonyx bones: The Hunterian Museum's request (per letter of Dr. Warren, of Boston, to Dr. Horner) for permission to take casts, was referred, with power, to the Curators.

Committee on Astronomical Observatory was, on motion of Mr. Kane, discharged, and a new committee of five appointed, and empowered "to collect and apply the funds destined to the use of the proposed Observatory, and represent the Society in all matters connected therewith:" Patterson, T. Biddle, Kane, Espy and Lukens. Papers and moneys in the hands of the late Committee to be transferred to the new Committee.

"Resolved, That the Society hereby transfers to the Com., now appointed all such Astronomical and other Instruments in its possession as may, in the judgment of the Com., be available for the purpose of the Observatory."

"On motion of Dr. Patterson, the following Resolution was adopted:"

[In the blank space left for it, is written in lead pencil in the autograph of Judge Kane: "Resolution (J. K. K. thinks) requested Trustees of the Univer. Penna. to give the use of their Astronl. Instrts. to the new Observatory. This Resolution has been mislaid."]

Obituary Notices on file were referred to the Committee on Marshall's memoir.

"Dr. Patterson submitted the following resolution, which was adopted:"

[In blank space, lead pencil note: "This Resolution has been mislaid."]

Nomination No. 18 read and placed on file.

Death of M. Barbé de Morbois, an early member of the

Society, at the age of ninety-five years, was announced by Mr. Fisher, and "Mr. DuPonceau was appointed to prepare the usual obituary notice."

1837. March 17. (Present, 21. DuPonceau in the Chair.)

Donations of books from two societies, and ten persons.

Committee of Finance: McIlvaine resigned; Dr. Patterson appointed in his place (later in the evening).

Committee on Gibson's geological paper "reported against

its publication;" adopted.

Death of Chevalier Lorich, March 11, was reported by the President, and Mr. Raguet appointed "to prepare the usual obituary notice."

Death of Dr. Francis Blanchet, of Quebec, reported by

Dr. Bache.

Godman's Tetracaulodon, a genus "the authenticity of which has been doubted by some members of the Society," Dr. Hays announced "has been recognized by Prof. Kaup of Darmstadt, & a species of the genus has been discovered at Epplesheim, near Altzey, about 12 leagues south of Mayence."

"Dr. Patterson showed a piece of Coin which had been expanded to an extraordinary degree under the press in consequence of the surface of the planchet being slightly covered with oil, and explained the cause of this occurrence."

The *Great Storm* of December 20, 1836, which passed over Philadelphia, was described by Mr. Espy in "some remarks on its progress."

1837. April 6.* (Present, 21. DuPonceau in the Chair.)

M. Roux de Rochelle's letter of thanks read.

Royal Irish Academy's letter of acknowledgment for donations.

Donations of books from three societies and ten persons.

Error in minutes for April 7.

Marshall's MSS. Circuit Court Decisions: All the originals presented "by Dr. Chapman in behalf of John Brockenbrough Esqre of Richmond."

Ascending Storms: "Mr. Espy & Dr. Hare communicated certain facts illustrative of the theory that Storms are produced by rapidly ascending currents of air, & discussed the question of the causes by which such currents are occasioned."

Library Committee "instructed to receive from the Librarian the Books purchased by Mr. Ord in Paris, pursuant to a resolution passed 16th July, 1830, & on the reception of the same, to report the fact to the Society."

1837. April 21. (Present, 31. DuPonceau in the Chair; Patterson, Kane, F. Bache, Vaughan, Lea, Hays, Sergeant, Ord, Dunglison, Emerson, Carey, Tanner, Dunn, Pickering, Espy, Nuttall, Randolph, Lukens, T. Peale, McIlvaine, Mease, Raguet, C. C. Biddle, Strickland, Nicklin, Wood, Tyson, Harlan, Hare, Fisher.)

Letters acknowledging donations were received from four societies.

Donations from two societies and eight persons.

Committee on Obituary notices reported; consideration postponed.

Election of members proceeded. Nomination 13 "with-drawn in consequence of the absence of the gentlemen by whom it was signed."

Joint Committee on Meteorology was "authorized as far as this Society is concerned to take order upon & carry into effect the late *law* passed by the Legislature of Penn. for the promotion of Meteorology."

Death of Ed. Turner announced by Dr. Bache.

New members elected: George Campbell, of Philadelphia; John G. Crosse, Norwich, England; Jared Sparkes [sic], Boston; C. R. Leslie, London; J. C. Pritchard, M.D., F.R.S.,

Bristol, England; T. L. Winthrop, Boston; G. Tucker, University of Virginia.

1837. May 5. (Present, 27. DuPonceau in the Chair.)

Letter of acknowledgment from the Society of Arts.

Donations from six persons.

Committee on Obituaries. Report considered. Resolution No. 1 adopted, i. e. Committee appointed:

- 1. "To select from the entire list of deceased members, the names of those who in their judgment present a prominent claim to an obituary notice.
- 2. "To prepare such as exist for the press, abridging them if necessary, but in no case making any alteration without the consent of the author, if he can be consulted.

3. "To prepare such as do not exist by correspondence with the family,

&c.

4. "To report proceedings to the Society for approval."

Committee: Fisher, Kane, Patterson, Tyson, Emerson. Resolution No. 2 was laid on the table.

Dr. Pickering was permitted to borrow last two Vols. Berlin Transactions for the use of the Exploring Expedition.

Catalogue of books purchased by Mr. Ord in Paris was reported by the Library Committee, who recommended that \$167.04 advanced for them by Mr. Vaughan should be refunded to him. So ordered.

Nomination for membership No. 19 was read.

1837. May 19. (Present, 17. DuPonceau in the Chair.)

M. Macedo, Perp. Sec. Lisbon Academy, Mr. Winthrop, and Mr. Tucker, "severally acknowledged the honor of membership," by letters. Letters acknowledging Vols. of Transactions American Philosophical Society were received from Harvard University and Chev. Morelli "in behalf of the King of the Two Sicilies." Donations of books from one society and nine persons.

"On the Changes of Color in Birds & Quadrupeds," by the Rev. John Bachman, was read and referred to Nuttall, T. Peale, Ord.

Nomination for membership No. 20 was read.

Committee on Obituary Notices: Emerson resigned.

"On some points of science connected with Meteorology," verbal communication made by Dr. Hare.

1837. June 16. (Present, 17. DuPonceau in the Chair.)

Donations of books from four societies and nine persons. Committee on Bachman's paper reported it for publication.

Death of Dr. Abiel Holmes announced; Mr. Sparks appointed, &c.

"On a Self-regulating Reservoir for Chlorine, contrived by him;" "On the artificial generation of Ammonia;" "On the formation of an Ink without grounds, by digesting the infusion of galls on finery cinder;" "On a rotary galvanic multiplier;" all verbally communicated by Dr. Hare.

1837. July 21. (Present, 20. Duponceau in the Chair.)

Donations of books from two societies and seven persons. "On new species of Fresh-water shells," by Mr. Lea, read and referred to the Committee on his former papers.

Tube telegraph: "Dr. Mease mentioned a mode of communicating orders through tubes of the length of more than 8000 feet in the Government Offices in London."

"A metallic pen, the body of Palladium, the point an alloy of Osmium & Iridium, brought from London by Mr. Saxton," was exhibited and described by Dr. Patterson.

New member elected: Wm. Jenks, D.D., of Boston.

Dr. Patterson offered the following resolution, which was adopted:

WHEREAS, Public attention is at present much directed to the subject of Mcteorology, in which many important facts have been recently estab-

lished, and whereas the Legislature of Pennsylvania has made an appropriation for conducting observations throughout this State, and whereas it is very desirable that such observations should be extended over the whole U. S. therefore,

Resolved, That authority be given to the Joint Committee of the Amera Philosophical Society, and the Franklin Institute, so far as this Society is concerned, to apply to Congress for aid to procure Instruments, and establish Observations throughout the United States, should this Committee deem such application desirable.

"On the forms of the trunks of the trees before the State House," a verbal communication made by Dr. Emerson.

1837. Aug. 18. (Present, 11. Patterson in the Chair; Chapman, Kane, F. Bache, Vaughan, Hays, Mease, Short, Harlan, Tyson, Ord.)

Donations of books from one society and eight persons.

Mexican Antiquities: Mr. Keating's offer "to deposit some boxes of M. A. belonging to Mr. Chas. Bagley, on certain conditions," was accepted and referred to Keating, Kane and Hays "to carry it into execution."

"Book of the Laws & Regulations of the Society, followed by a List of the members, &c.," prepared by the Secretaries was exposed for inspection.

"On Mocking birds," by Col. Abert, was read by Dr. Harlan and placed in the Archives.

Nominations for membership Nos. 20 to 24 were read and filed.

Five Mexican Gold Idols, the Treasurer was authorized to purchase for \$25.

Committee to arrange the *Medals*, *Coins*, &c.: Keating, Kane, Hays and Fisher.

1837. Sept. 15. (Present, 21. DuPonceau in the Chair.)

Dr. Pickering's letter of resignation was laid on the table. Dr. R. Coates' letter, as "Sec. of the Board of Members of the Scientific Corps of the South Sea Expedition," ten-

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dered their acknowledgments for assistance from the Society.

Donations of books from two societies and two persons, and for the Cabinet from two persons.

Committee on Lea's paper of July 21, 1837, reported it for publication.

Nomination No. 25 was read and placed on file.

South Sea Expedition: Dr. Patterson stated that, on the 18th of July last, the Secretary of the Navy had requested the following members of the Society: Duponceau, Patterson, Kane, Vethake, C. C. Biddle, and Ord, to act as a Commission, to consider various questions such as, the proper selection of books, instruments, and materials needed, the distribution of duties among the Corps, &c. That they had appointed DuPonceau, Chairman, and Patterson, Secretary; had selected Committees to consider the different subjects; had held numerous meetings; and had finally (September 2) presented full reports to the United States Secretary Navy, from whom letters of acknowledgment were now read.

"A concise method of extracting the Cube Root," by T. Maxwell, was referred to Patterson, Vethake and Major Bache.

"The letter of Dr. Pickering was taken up & read, so far as to indicate his intention of resigning his membership; whereupon, on motion, the further reading of the Communication was dispensed with, & his resignation was accepted."

Book of the Constitution and List of Members: "Dr. Bache presented the bill of Mr. Wm. Fife for writing the Constitution & list of members, amounting to \$150; and, on motion of Dr. Patterson, an order was directed to be drawn in favour of Mr. Fife for that amount."

And another for \$10.75, in favor of Mr. Gaskill, for binding the volume.**

 $^{^{\}circ}$ This is the folio M88, vol. in green linen cover, with the names of members in German text.—J. P. L.

1837. Oct. 6. (Present, 18. Judge Hopkinson in the Chair.)

C. R. Leslie's letter of thanks for membership read.

Donations of books from two societies and seven persons; and to the Cabinet, two specimens of stone found near Mobile, by W. H. Robertson, "a description to be presented hereafter."

"Mr. Vaughan communicated a translation made by Mr. W. B. Hodgson, of a Prayer written in Arabic characters, by Prince Abduhl Rabbahman [sic], and represented by him to be a copy of the Lord's Prayer, now in the Society's Collection, from which it appeared, that the Prayer in question is the Tatihat [sic] or Introductionary Chapter of the Koran."

Walter R. Johnson's request to borrow for the use of the South Sea Exploring Expedition, Pierson's Astronomy, Rennels on Currents, and Ferusac's Cephalopodes, was granted.

Death of Carlo Botta was announced by Dr. Bache.

Death of Dr. John Lewis Tyarks was announced.

Fusing Platinum: "Dr. Hare mentioned that by the aid of his improved [hydrostatic] Blow-pipe.... he had succeeded in fusing platinum in masses of 10 & 13 ounces avoirdupois," and exhibited a \frac{3}{4} lb. specimen.

"M^r. Espy mentioned that he was satisfied from information which he had received, that rains are occasionally produced by the fires of large cities, & that rains are common in London & some other cities of England, while the adjacent country remains dry." "D^r. Hare made some observations confirming & explaining the phenomena referred to by M^r. Espy."

1837. Oct. 20. (Present, 37. DuPonceau in the Chair.)

Donations of books from three societies and six persons.

Committee on Maxwell's paper reported against its publication.

Nomination No. 26 was read.

Taylor's Memoirs: Dr. Hare described the "difficulties experienced by American Scientific Men in making known their Scientific Papers in Europe," and recommended, as a vehicle, Richard Taylor's "Collection of Scientific foreign memoirs," published in Red Lion Court, Fleet Street, London.

Dr. Patterson exhibited and explained Wheatstone's Kaleidophone, which makes visible the vibrations of an elastic wire.

New members elected: No. 20, S. C. Walker, of Philadelphia; No. 22, Josh. Saxton, of Philadelphia; No. 23, W. M. Meredith, of Philadelphia; No. 24 Thos. Dunlap, of Philadelphia; No. 25, Daniel Webster, of Massachusetts.

1837. Nov. 3. (Present, 20. DuPonceau in the Chair; Walker introduced.)

Donations from three societies and five persons.

Nominations Nos. 27, 28, 29 were read.

Kingsbury's Mexican Antiquities: Mr. Vaughan's request for authority to purchase one of the unsold copies (probably to be exposed for sale on account of the death of Lord Kingsbury), was referred to the Library Committee with power to take order.

1837. Nov. 17. (Present, 22. DuPonceau in the Chair Saxton introduced.)

Rev. W. Jenks' letter of thanks for membership read.

Donations of books from four societies and six persons; for the Cabinet, from three persons.

The President gave March 9, 1836, as the date of the death of Mr. Tracy, whose death had been announced previously.

Library Committee: Geo. Campbell appointed, vice Dr. Pickering, resigned.

ARCHIVES: Secretaries were "instructed to cause the Records & Documents, connected with the History & Trans-

actions of the Society, to be properly arranged & bound, & to provide suitable cases for their preservation."

1837.

1837. Dec. 1. (Present, 25. DuPonceau in the Chair; Patterson, Chapman, Kane, Lea, Hays, Vaughan; Col. Biddle, Vethake, Nicklin, Ord, T. Biddle, Condie, H. D. Rogers, Harris, Espy, McIlvaine, Bancker, Fisher, Saxton, Jos. Henry, Campbell, Dunglison, Seybert, Emerson.)

Webster's and Dunlap's letters of thanks, read.

Donations of books from Carey, Milne, the London Medical Society, and several numbers of the London Magazine Natural History in exchange for Transactions American Philosophical Society.

Publication Committee reported the completion and publication (during the past year) of Vol. V (twenty-eight articles, 498 pages and 24 plates); and the printing of a part of Vol. VI (Lea's Shells: 23 colored plates).

Balance in hands of the Committee's Treasurer, Dec. 3, 1834 \$464 13
Received from Magellanic Publication Fund \$1410 50
Extra appropriation
Subscriptions and sales
To be accounted for\$2880 75
Expended for Vol. V
On hand to pay for Vol. VI

Number of subscribers, 105; of Exchanges, 62; or copies sold, about 30; total 197 sold. Copies of New Series on hand: Vol. I, 213; II, 268; III, 229; IV, 236; V, 286. Old Series, out of print.

Amount due and unpaid for Vols. III, IV, V, . . . \$207.25.

"An enquiry into the relation existing between light, colour & shadow, containing illustrations adverse to the Newtonian Doctrines," by Dr. J. P. Emmett, University of Virginia, was referred to Patterson, Henry and Vethake.

Nomination No. 30 was read.

1837. Dec. 15. (Present, 27. DuPonceau in the Chair; Meredith introduced.)

Donations of books from eight sources; for the Cabinet, from Chief Justice Gibson.

Committee of Finance reported the Treasurer's accounts, and balance in bank to the credit of Treasurer, \$835.39. Annual appropriations: For Hall, \$150; Binding books, \$150; Journals, \$200; Current expenses, \$250.

The death of Dr. Physick being announced, the following Resolutions, proposed by Dr. Chapman, were adopted:

"Resolved, That the Society, sharing in the sensibility of this whole community, are deeply impressed by the loss it has sustained in the death of its distinguished Member, Philip Syng Physick, M.D., not less beloved for the purity of his private Virtues, than celebrated on account of his eminent public services, which, while they raised the reputation of his Profession, added illustration to the Character of his Country.

"Resolved, That as a manifestation of their sorrow on the occasion and of respect for his memory, the members of the Seciety, will wear the usual badge of Mourning on the left Arm for thirty days.

"Resolved, That they will collectively attend his Funeral, assembling on the day of it in this Hall, and thence to proceed to his late dwelling.

"Resolved, That a copy of the foregoing Resolutions, with a letter of condolence from the President of the Society, be transmitted to his Family."

Dr. Horner was appointed to prepare an obituary notice.

Townsend's Collections: Mr. Ord having announced Mr. J. K. Townsend's return from the West, referred to the subscription raised by members of the Society in aid of his enterprise, "on condition that half of the collections after reserving duplicates for himself, should be presented to the Society." Ord, Peale, Patterson were appointed a Committee on the subject.

Nomination No. 31 was read.

Dr. Hays expressed his opinion that Mr. Owen's recent dissections of the *Vultur auro*, and discovery of the extension of its olfactory nerves, proved "the correctness of the formerly generally received opinion of the extraordinary powers of smell of the *Vultur auro*."

- "Mr. Saxton exhibited an *Electro-magnetic machine* for throwing the spark from a battery of a single pair of plates on the construction devised by Prof. Daniel."
- 1838. Jan'y 5. [Here commences the first number of the first volume of the heretofore printed "Proceedings."]

ERRATA.

Page 22, line 27, for mayor read major.

Page 75, line 1, for latter read letter.

Page 98, line 15, for postage a letter read postage on a letter.

Page 102, line 13, for Patrons read Patron.

Page 164, line 6, for Pleasant's read Pleasants.

Page 171, line 26, for sciencis read sciences.

Page 264, line 4 (from bottom) for committee read communication.

Page 283, Curators "cause to (be) made."

Page 512, line 8 from top for engraved read engrossed.

Page 553, line 8 from bottom, for Humbel read Hembel.

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Explanation of Abbreviations.

- * = Election to Membership.
- | = " to Office.
- t = Death of Member.

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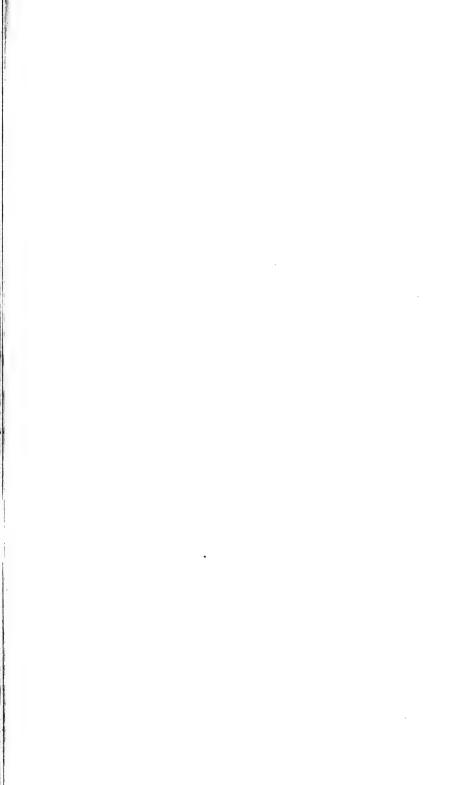
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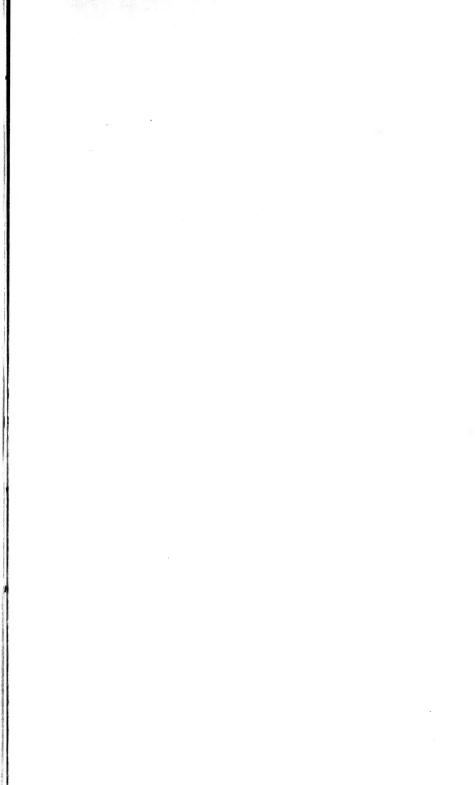
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