

ADDITION TO THE LIBRARY BY PURCHASE.

Astronomische Nachrichten. Nos. 477, 478, 479. May, 1843.
Nos. 480, 481. July, 1843. 4to.

Dr. Patterson announced the decease of Robert Adrain, LL.D., a member of the Society, who died at New Brunswick, N. J., on the 10th instant, aged 68: and thereupon Dr. Patterson was appointed to prepare a notice of the life and scientific labours of the deceased.

Mr. Lea read a continuation of his paper "On New Fresh Water Shells," which includes descriptions of twelve new species of *Unio*, most of them from Florida, to which he has given the names, *U. Buckleyi*, *U. Buddianus*, *U. Minor*, *U. amygdalum*, *U. occultus*, *U. Monroensis*, *U. aheneus*, *U. fuscatus*, *U. trosculus*, *U. superbus*, *U. aratus*, *U. neglectus*.

The communication of Mr. Lea was referred to a Committee, consisting of Mr. T. R. Peale, Dr. Hays, and Mr. Ord, and permission was given him to publish an abstract of it in anticipation of the Transactions.

Mr. Lea, from the Publication Committee, announced the completion of the 8th Vol., N. S., of the Transactions, and made a special report. From this it appeared, that the number of subscribers at this time is 113; that 77 copies are distributed by donation and in exchanges, and that 9 copies of the volume have been sold; making an aggregate number of 199. The report announced that Vol. 9 is now in the press, and that the available funds of the Committee amount to \$957, of which, however, a part remains uncollected.

Stated Meeting, September 15.

Present, thirty-five members.

Mr. DU PONCEAU, President, in the Chair.

Dr. W. W. Gerhard, and William H. Dillingham, Esq., members elect, were presented, and took their seats.

Letters were received:—

From W. H. Dillingham, Esq., dated 14th Sept. 1843, making acknowledgments on the occasion of his election to membership:—

From the Secretary of the Royal Society of Northern Antiquaries, dated Copenhagen, 18th April, 1843, transmitting a donation:—

From the General Secretary of the Central Commission of the Geographical Society of Paris, dated 29th April, 1843, acknowledging the receipt of the 2d part of Vol. 8 of the Transactions:—

From Wm. W. Andrews, Esq., U. S. Consul at Malta, dated 3d July, 1843, transmitting a catalogue of the minerals heretofore presented to the Society:—

From Col. Von Abrahamson, dated Odensé, Denmark, transmitting a copy of the Memoirs of the Literary Society of Fionia:—

From James Ombrosi, Esq., U. S. Consul at Florence, dated 5th July, 1843, announcing the delivery to the Grand Duke of Tuscany of his diploma of membership: and thereupon the Librarian was instructed to transmit to H. I. and R. H. a copy of the Transactions, N. S., suitably bound.

The following donations were announced:—

FOR THE LIBRARY.

Abhandlungen der Königlichen Gesellschaft der Wissenschaften zu Göttingen. Erster Band. Von der Jahren, 1838—1841. Mit fünf Steindrucktafeln. Göttingen, 1843. 4to.—*From the Royal Society of Sciences of Göttingen.*

Archives du Muséum d'Histoire Naturelle. Tome 2e. Livraison 3e. Tome 3e. Livraisons 1 et 2. Paris, 1841. 4to.—*From the Professors of the Museum.*

Journal Asiatique. 3e Série. Tome XIV. No. 79. 1842. 4e Série. Tome I. Nos. 1, 2, 3, 4. 1843. 8vo.—*From the Asiatic Society of Paris.*

Annales des Mines. 4e Série. Tome II. 5e Livraison de 1842. 8vo.—*From the Engineers of Mines, Paris.*

Bulletin de la Société de Géographie. Deuxième Série. Tome

- XVIII. Paris, 1842. 8vo.—*From the Geographical Society of Paris.*
- Boletín Enciclopédico de la Sociedad Economica de Amigos del Pais. Año 4o. Tomo 2o. No. 5o. Valencia, 1843. 8vo.—*From the Society.*
- Mémoires de la Société Royale des Antiquaires du Nord. 1840—1843. Section Américaine. Copenhague, 1843. 8vo.—*From the Society.*
- Mémoire sur la Découverte de l'Amérique au Dixième Siècle. Par Charles Christian Rafn. Publié par la Société Royale des Antiquaires du Nord. Second Tirage. Copenhague, 1843. 8vo.—*From the same.*
- Aktstykker, for Storste Delenhidtil utrykte, til Oplysning især af Danmarks indre Forhold i ældre Tid. Odensé, 1841. 4to.—*From the Literary Society of Fionia.*
- Diem Natalem Augustissimi Regis Caroli Johannis; Nec non Memoriam Regni ab Eo ante quartam Sæculi partem aditi ab Universitate Regia Fredericana die XXVI, Januarii, MDCCCXLIII; Indicit Collegium Academicum. Christianiæ, 1843. 4to.—*From the Royal University in Christiana, Norway.*
- Descriptio Ornamentorum Aureorum et Nummorum Sæculi VIII^{vi} et IXⁿⁱ, in Prædio Hoen, in Parochia Eger in Diocesi Norvegiæ Agershusiensi, Anni MDCCCXXXIV., mense Augusto, Repertorum; Auct. Chr. Andr. Holmboe. Christianiæ, 1835. 4to.—*From the same.*
- Delphinus Leucopleurus. Nova Species Descripta ab H. Rasch, Conservatore Musei Zoologici Universitatis Regiæ Fredericianæ. Christianiæ, 1843. 4to.—*From the same.*
- De Mutationibus, quas subit Momentum Virgæ Magneticæ partim ob Temporis, partim ob Temperaturæ Mutationes. Auctore Christophoro Hansteen. Christianiæ, 1842. 4to.—*From the same.*
- Semina Horti Botanici Christianiænsis. 1842. 4to.—*From the same.*
- Flora Batava, ou Descriptions et Figures de Plantes Belges. Par Jan Kops, et J. E. Van der Trappen. Nos. 126 et 127. 4to.—*From His Majesty the King of the Netherlands.*
- Tijdschrift voor Natuurlijke Geschiedenis en Physiologie. Negende Deel. 2e en 3e Stuk, 4e Stuk, 1842. Leiden, 1842. 8vo.—*From the Editors.*
- Journal of the American Oriental Society. Vol. I. No. 1. 1843. 8vo. Boston, 1843.—*From the Society.*

- Proceedings of the Academy of Natural Sciences of Philadelphia. Nos. 26, 27, 28, 29. 1843. 8vo.—*From the Academy.*
- Journal of the Franklin Institute of the State of Pennsylvania. 3d Series. Vol. VI. Sept. 1843. 8vo.—*From Dr. Patterson.*
- The Medical News and Library. Vol. I. Sept., 1843. No. 6. 8vo.—*From Lea & Blanchard.*
- An Essay on Calcareous Manures. Third Edition. By Edmund Ruffin. Petersburg, Va., 1842. 8vo.—*From the Author.*
- Description of Twelve New Species of Uniones. By Isaac Lea. Read before the American Philosophical Society, August 18, 1843. A printed Sheet, dated August 19, 1843.—*From the Author.*
- Supplément aux Vindicæ Sinicæ, ou Dernière Réponse à M. Stan. Julien. Par G. Pauthier.—*From the Author.*
- On the Abuse of the Pardoning Power. By Samuel R. Wood. Philadelphia, 1839. Pamphlet. 8vo.—*From Dr. P. Tidyman.*

The President announced the decease of Mr. J. N. Nicollet, a member of the Society, who died on the 11th Sept. 1843, at Washington:—and thereupon Dr. Ducatel of Baltimore, was appointed to prepare a notice of his life and scientific labours.

Dr. B. H. Coates called the attention of the members to the head bones of a fish found upon Squam Beach, N. J., called by the fishermen, the Head-fish.

Professor Bache stated, that he had continued during the past summer the series of observations for magnetic dip and intensity, a notice of which he had formerly submitted to the Society.

The places of observation were Troy, Schenectady, Utica, Syracuse, Geneva, Rochester, Niagara Falls, Oswego and Ogdensburg, in New York State, and Toronto, Montreal and Quebec, in Canada. The same instruments were used as formerly, namely, a Robinson dipping circle with common and Lloyd needles for the usual observations of the dip, and for those of dip and intensity by the statical method of Prof. Lloyd, and a vacuum apparatus for horizontal intensity by the method of vibrations. Similar observations were made at Philadelphia before and after the journey, to connect these results with others previously obtained. Prof. Bache had the pleasure and advantage of the aid of Prof. Foster of Union College, in making these observations. The results of the Pennsylvania survey are connected directly with that now executing in the British Provinces, by the ob-

servations at Toronto and Philadelphia, by Lieut. Lefroy and Prof. Bache. Other comparisons will probably be had through the observations at Montreal and Quebec.

Professor Bache expressed the hope that the magnetic survey of the State of New York, would not be left to the desultory efforts of individuals, but would be undertaken and rendered systematic and complete, by the authorities of the State.

Professor Frazer made some remarks on the tornado of Aug. 5th, and exhibited a specimen of earth, apparently silicious, which was deposited by it in considerable quantity, within the chimneys of a house over which it passed in Delaware county, and which he regarded as bearing on the question whether the rain proceeded from a water-spout. Prof. F. had traced the line, which formed the eastern limit of the tornado, and found it to be a curve: the western line he had been unable to define. He remarked, that where its path lay through a wood, the large trees were generally prostrated, while the small ones escaped.

A similar remark had been made by Professor Bache as to the comparative destruction of the larger and smaller trees in the paths of several tornadoes which he had witnessed: and it was observed by Mr. Hassler, that it was of universal occurrence, and was referrible to the fact that the roots of young trees penetrate more deeply into the ground than those of older ones, and are besides proportionably larger.

The phenomena presented by the tornado of August had been observed in different places by others of the members. The minimum of rain, which was marked as having fallen within its range, was ten inches. The district over which it passed was very limited, but its path was such as to cover the entire course of the principal streams of Delaware county. This circumstance was adverted to as explaining the desolating height to which the waters were raised.

Mr. Kane, Reporter, announced that the Discourse of Dr. Patterson at the Centennial Celebration, with the proceedings by which it was introduced, had been printed, and was now ready for distribution. He mentioned that the Proceedings of the Centenary Meeting of the Society would be in print before the next meeting.

The Committee on the Celebration was authorized to make distribution of copies of the centenary proceedings.

On motion of Prof. Bache, the communication, entitled "On two Storms which occurred in February 1842, by Elias Loomis, of Western Reserve College, Ohio," read before the Society on the 26th of May, was referred to a Committee, consisting of Prof. Frazer, Prof. Bache, and Dr. Emerson.

The communications, entitled "On the Instruments of the Astronomical Observatory of the U. S. Military Academy, West Point," and "the Observations made upon the Comet of Feb. 1843," by Prof. W. H. C. Bartlett of the U. S. Military Academy, read 30th May, were referred to a Committee, consisting of Mr. Walker, Prof. Bache, and Prof. Kendall.

On motion of Mr. Lea, the communication, entitled "Description of some new Fossil Shells, from the Tertiary of Petersburg, Va.," by Henry C. Lea, Esq., read 30th May, was referred to a Committee, consisting of Prof. Booth, Mr. T. R. Peale, and Dr. Hays. Mr. Lea had permission to publish an abstract of his communication in anticipation of the Transactions.

Stated Meeting, Oct. 6.

Present, twenty-eight members.

Mr. DU PONCEAU, President, in the Chair.

Mr. John Downes, a member elect, was presented, and took his seat.

Letters were received:—

From Hon. A. P. Upshur, Secretary of State, dated Oct. 1, 1843, transmitting eighteen volumes of public documents:—

From the Secretary of the Academy of Sciences of Turin, transmitting donations to the Library:—

From the Secretary of the Zoological Society, dated London, Dec. 2, 1842;—and from the Secretary of the Zoological Society of London, dated June 27, 1843, acknowledging the receipt of the Transactions and Proceedings of this Society:—