etc., the invention of Mr. Thos. Shaw; Behrns' Aspirator for ventilating millstones; a Horseshoe intended to prevent slipping on smooth pavements; a new form of Megascopé, designed by J. B. Knight, and the Wallace-Farmer Magneto-Electric machine, built by Messrs. Wallace & Sons, of Ansonia, Conn. One of these machines, loaned by the builders to the Committee on Instruction for use in lectures, was in operation on the stage and its power was shown by vaporizing metals, etc., and its construction and action explained at some length by the President.

The Magneto-Electric machine was driven by an upright steam engine of 6 in. diameter of cylinder and 8 in. stroke, recently purchased by the Institute from Mr. Jacob Naylor.

Under the head of new business, the Resolution of Mr. F. M. M. Beale, relative to Polar Exploration, postponed from the last meeting, was taken up and on being put to a vote was adopted, as follows :

WHEREAS, A Bill is at present pending before Congress asking aid for carrying into execution the scheme of Capt. H. W. Howgate, of the Signal Service, for reaching and exploring the region about the North Pole on the plan of colonization,

Resolved, That the Franklin Institute approves of this plan, not only for its economy, but for its apparent practicability, and believes it to be the most feasible plan yet offered.

On motion of Mr. Orr, it was

Resolved, That the Secretary be directed to send a copy of above Resolution to both Houses of Congress.

On motion the meeting adjourned.

J. B. KNIGHT, *Secretary*.

Donations continued from January Number.

Annual Report of the New York Meteorological Observatory for 1874-5, by D. Draper, Director. From the Director.

Bibliothèque Universel et revue suisse, N. 217, with table des travaux de la revue, etc. Note sur les élèves externes de l'école des Ponts et chaussées par M. Malézieux, Paris, 1875. Ecole des Ponts et chaussées. Cour préparatoires. Catalogue du Cercle de la librairie de l'imprimerie, etc. Paris, 1876. Exposition Universelle de Philadelphia, 1876.

Etude historique et statistique sur les voies de communication de la France, etc. Par M. Felix Lucas, Paris, 1873. Exposition Univ. à Vienne.

Catalogue descriptive des Modèles, Instruments et dessins des galeries de l'école, par H. Baron, Ing.-en-Chf, Paris, 1873. Ecole National des Ponts et chaussées. From E. Lavoinnie, Delegate from French Government.

The Economy of Workshop Manipulation, etc., by John Richards. From the Author.

Second Geological Survey of Pennsylvania, 1874-5. Report of Progress in the District of York and Adams Counties, etc. By Persifer Frazer, Jr. Harrisburg, 1876. Report of Progress in the Greene and Washington Districts of the Bituminous Coal Fields of Western Pennsylvania, by J. J. Stevenson, Harrisburg, 1876. From the Board of Commissioners, through their Secretary, Mr. J. B. Pearce.

Instruments and Publications of the U. S. Naval Observatory, 1845-76. Five Photographs of Planet of Saturn, etc. Five Photographs of Drawings, made with 26 in. equatorial in 1875. One Engraving of U. S. Naval Observatory, Washington. From U. S. Naval Observatory, through Prof. J. E. Nourse, Washington.

Extracts from the Proceedings of the Board of Regents of the Smithsonian Institution in Relation to the Electro-Magnetic Telegraph. From Prof. W. S. Cooley.

Twenty-fourth Annual Report to the Council of the City of Manchester, on the Working of the Public Free Libraries, 1875-6. Manchester, 1876. From the Council.

History of the Cooper Shop Volunteer Refreshment Saloon, by Jas. Moore, M.D. Philadelphia, 1866. From Mrs. A. Horner, Philadelphia.

Sections of Steel and Iron Rails Manufactured by Cambria Iron Co., Johnstown, Pa. From the Company.

Minutes of Proceedings of the Institution of Civil Engineers, Vol. 46, Session 1875-6, Part 4. Edited by Jas. Forrest, Secretary. London, 1876. From the Institution.

Catalogue of the Argentine Republic, International Exhibition, Philadelphia, 1876.

Catalogues des produits industrielles et des œuvres d'art de Belgique. Exhibition International, Philadelphia. Bruxelles, 1876.

The Empire of Brazil at the Universal Exhibition of 1876, in Philadelphia. Rio de Janeiro, 1876.

Catalogue of the Brazilian Section, Philadelphia International Exhibition, 1876.

Official Catalogue of the British Section, Part 1, Philadelphia International Exhibition. London, 1876.

Centennial Newspaper Exhibition, 1876. N.Y.

Ceremony of the Distribution of Awards to Exhibitors in the International Exhibition, Philadelphia, 1876.

Lista preparatoria del Catalogo de los expositores de España y provincias de Ultramar, Cuba, etc., Exposicion Universal de Filadelfia en 1876.

Oeuvres d'art et produits industriels de France. Exposition internationale, Philada., 1876.

Official Catalogue of the German Department, International Exhibition, Philada., 1876. Berlin, 1876.

India. Classified and descriptive catalogue of the collections selected from the India museum, and exhibited in the Indian Dept. of Philadelphia Centennial Exhibition of 1876. By J. F. Watson, London, 1876.

Catalogo general de los productos y objetos de las Islas Filipinas remitidos a la Exposition Universal de Filadelfia, 1876. Manila.

International Exhibition, 1876. Official catalogue of the seven departments in 4 Vols. Philadelphia.

Official catalogue of the Japanese section, and descriptive notes on the industry and agriculture of Japan. International Exhibition, 1876. Philada., 1876.

Jamaica. Descriptive catalogue of the collection sent from the Island to the Centennial Exhibition of 1876. Compiled, etc., by R. Thomson. Jamaica, 1876.

Kansas. Centennial edition of the fourth Annual Report of the State Board of Agriculture to the Legislature of the state, 1876.

Special catalogue and explanatory notes of the Mexican section. Philada. International Exhibition, 1876. Philadelphia, 1876.

History of Nassau, N. P., Bahamas.

Ohio. An address, delivered at the Centennial Exhibition in Philadelphia, August 9th, 1876, by E. D. Mansfield. Cleveland, 1876.

Sketch of Orange Free State of South Africa. Issued by the Commissioner at the Int. Ex., Philada., 1876.

Oesterreichischen Abtheilung. Katalogue. Weltausstellung in Philadelphia, 1876. Wien.

Annual report of the packing of the West, etc., compiled by B. F. Howard. Chicago, 1876.

Catalogue of the Educational exhibit of the state of Pennsylvania, with an appendix, containing an outline of the system of public instruction in the state, Centennial Exhibition. Lancaster, 1876.

Official catalogue of the Peruvian section, Main building, International Exhibition, Philad'a, 1876. N. Y.

Catalogue of the Russian section, International Exhibition, Phila.. 1876. Russia, 1876.

Special catalogue of stated displays of Live stock, International Exhibition, Philadelphia, Oct. 10-18, 1876.

Official catalogue of exhibits, essays, etc., of Victoria, Australia, Philada. Centennial Exhibition, 1876. Melbourne, 1876.

Resources of West Virginia, by Maury & Fontaine. Wheeling, 1876. From P. C. De Sangue, Philad'a.

Public Libraries in the United States of America, their history, condition and management. Special report Dept. Interior, Bureau Education, parts 1 & 2. Washington, 1876. From Hon. Com. of Education.

Programm der Grossherzoglich Badischen Polytechnischen Schule zu Carlsruhe, für das Studienjahr 1866-67.

Astronomie geometrique ou brèves considerations sur les nouvelle theorie des ovhélites, par le Comte Leopold Hugo. Paris, 1876.

Ueber die Entstehung des Schwärmsprösslings der podophrga quadripartitæ. Clp. u. Lehm, etc., von Dr. Otto Butschli. Naumburg, 1876.

The Empire of Brazil at the Universal Exhibition of 1876, Philadelphia. From the Smithsonian Institution, Washington.

Donations continued from February Number.

Reports upon geographical and geological explorations and surveys west of the one-hundredth meridian in charge of first lieut. Geo. M. Wheeler. Vol. 3, geology; vol. 5, zoology. Washington, 1875.

Report of the exploring expedition from Santa-Fé, New Mexico, to the junction of the Grand and Green rivers of the Great Colorado of the West, in 1859, under command of Capt. J. V. Macomb, with geological report by Prof. J. S. Newberry. Washington, 1876.

Report of explorations across the great basin of the territory of Utah, for a direct wagon route from camp Floyd to Genoa, in Carson valley, in 1859, by Capt. J. H. Simpson. Washington, 1876. From the war department.

(To be continued.)

Book Notices.

A CONCISE HISTORY OF THE IRON MANUFACTURE OF THE AMERICAN COLONIES UP TO THE REVOLUTION, AND OF PENNSYLVANIA TO THE PRESENT TIME. By John B. Pearse, A.M. Allen, Lane & Scott, Philadelphia, 1877. 12mo, 282 pages, with Map of Pennsylvania. \$2.00.

Those who are interested in the history of our country, as readers or as students, as well as those engaged in the iron trade or manufacture, will turn with much pleasure to this interesting narrative