

*Stated Meeting, November 15.*

Present, twenty-one members.

Dr. PATTERSON, President, in the Chair.

A letter was read:—

From the Literary and Philosophical Society of Manchester, dated Society's Rooms, George street, 16th October, 1850, acknowledging the receipt of No. 44, of the Proceedings of this Society.

The following donations were announced:—

FOR THE LIBRARY.

The African Repository. Vol. XXVI. No. 11. Nov. 1850. Washington. 8vo.—*From the American Colonization Society.*

The Medical News and Library. Vol. VIII. No. 95. Nov. 1850. Philadelphia. 8vo.—*From Lea & Blanchard.*

Prof. Cresson made some remarks upon the experiments of Prof. Thompson, of which an account is given in a recent number of the London and Edinburgh Philosophical Magazine, and which Prof. T. believes to show that the temperature of congelation of water and other bodies that expand at the moment of solidification, is raised proportionally to the increase of pressure to which they are subjected, the ratio of temperature to pressure being for water 1-10th of a degree of Faht. scale for 10 additional atmospheric pressures.

Mr. C. presented to the notice of the Society a speculation into which he had been led on the subject, showing the effect that such a law might produce in causing water to retain the state of a solid at a very high temperature. For example, if a continuous channel, admitting atmospheric communication, should exist in the crust of the earth to the depth of seventy miles, the pressure of the atmospheric column would exceed fifteen million pounds on the square inch, and according to Prof. T. water should remain solid at a temperature above 10,000° Faht., a heat far above that of molten iron.

The pending nominations were read.

The Clerk read the proceedings of the Board of Officers and Council at a special meeting held this evening.

Mr. Peale laid upon the table for the inspection of members of the Society, the Certificate of Membership of his father, which bears date July, 1786, and is signed by B. Franklin, as President.

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*Stated Meeting, December 6.*

Present, eighteen members.

Dr. FRANKLIN BACHE, Vice-President, in the Chair.

Letters were read:—

From the Royal Danish Society of Sciences of Copenhagen, dated 14th November, 1849, returning thanks for the Transactions, Vol. IX. Part 3d, and Vol. X. Part 1, and for Nos. 38 to 42, of the Proceedings of this Society:—

From the same, of same date, announcing a donation: and—

From John M. Bernhisel, agent of the inhabitants of the Territory of Utah, accompanying a printed circular, soliciting donations of books for a library for the inhabitants of said Territory.

The following donations were announced:—

FOR THE LIBRARY.

Det Kongelige Danske Videnskabernes Selskabs Skrifter. Femte Række. Naturvidenskabelig og Matematisk Afdeling. Første Bind. Kiöbenhavn, 1849. 4to.—*From the Royal Danish Society of Sciences, Copenhagen.*

Oversigt over det Kgl. Danske Videnskabernes Selskabs Forhandlingar, og dets Medlemmers Arbeider, i Aaret 1847, 1848. Kiöbenhavn, 1848-9. 8vo.—*From the same.*

Proceedings of the New Jersey Historical Society. Vol. V. No. 2. 1850. 8vo.—*From the Society.*

Journal of the Academy of Natural Sciences of Philadelphia. New Series. Vol. II. Part 1. Philadelphia, Nov. 1850. 4to.—*From the Academy.*