

promise of satisfactorily solving the nomenclature problem.

Professor Joseph F. James made some remarks on 'Daimonelix and Allied Fossil.' He gave an account of the large fossil 'cork screws' described by Professor Barbour from the Bad-Lands of northwestern Nebraska, calling attention to their peculiar features. He noted the fact that while they had heretofore been considered as unique and without resemblance to other fossils, that in reality several other similar forms had been described. One of these was figured by Heer in 1865 in 'Die Urwelt der Schweiz,' under the name of 'screw-stones,' which presents all the characters of *Daimonelix* as figured by Barbour. In 1863 Professor James Hall described *Spirophyton* and gave a restoration of *S. typum*. In a view of one of the whorls there is a great correspondence between it and a figure of the same character given by Barbour. In 1883 Professor Newberry described *Spiraxis*, also a genus of screw-like fossils which presents features similar to *Daimonelix*. Heer's fossil occurs in the Miocene of Switzerland, while *Spirophyton* and *Spiraxis* occur in the Chemung of New York and Pennsylvania. The wide distribution of the forms is interesting as showing that *Daimonelix* is not an 'accident' as hinted by some. Whether it is a plant or not must be decided in the future, although there is a strong presumption that such is the case. FREDERIC A. LUCAS,

Secretary.

SCIENTIFIC JOURNALS.

AMERICAN CHEMICAL JOURNAL, APRIL.

Argon, A New Constituent of the Atmosphere:

LORD RAYLEIGH and WILLIAM RAMSAY.

On the Spectra of Argon: WILLIAM CROOKES.

The Liquefaction and Solidification of Argon:

K. OLSZEWSKI.

On the Atomic Weight of Oxygen. Synthesis of Weighed Quantities of Water from Weighed Quantities of Hydrogen and of Oxygen:

EDWARD W. MORLEY.

On the Chloronitrides of Phosphorus: H. N. STOKES.

On the Saponification of the Ethers of the Sulphonic Acids by Alcohols: J. H. KASTLE and PAUL MURRILL.

Contributions from the Chemical Laboratory of Harvard College. LXXXVI. On the Cupriammonium Double Salts: THEODORE WILLIAM RICHARDS and GEORGE OENSLAGER.

Basswood-oil: F. G. WIECHMANN.

Note.

AMERICAN JOURNAL OF SCIENCE, APRIL.

Niagara and the Great Lakes: F. B. TAYLOR.

Disturbances in the Direction of the Plumb-line in the Hawaiian Islands: E. D. PRESTON.

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A travers le Caucase. ÉMILE LEVIER. Neu châtel, Attinger Frères. Pp. 346.