

Book Notices.

The Mineral Industry, its statistics, technology of, and trade with the United States and other countries to the end of 1901. Founded by the late Rich'd. P. Rothwell. Edited by Joseph Strouthers, Ph.D. Vol. x, supplementary volumes i to ix. New York and London: *The Engineering and Mining Journal* (Inc.). 1902. Large 8vo, xxx + 982 pp. (Price, \$5 in the United States; \$7 for foreign countries in the postal union.)

The annual volume of "The Mineral Industry," of which the tenth has lately issued from the press, is so useful a compendium of the progress of the mining and metallurgical arts that it has come to be almost indispensable to those having to do with them professionally or otherwise.

The gathering of the vast amount of facts and figures contained in these year-books by experts conversant with each special branch of the subject, must commend itself to the reader as the only satisfactory method of obtaining data that can be relied upon to be approximately accurate.

The work reflects much credit upon the industry and ability of its editor and his collaborators.

W.

Cattle-Feeding with sugar-beets, molasses and sugar-beet residuum. By Lewis S. Ware. Illustrated. Large 8vo, xxiii, + 389 pp. Philadelphia Book Company, 15 South Ninth Street, 1902. (Price, \$2.50 net.)

The author is widely known as one of the most persistent pioneers in this country in advocating the domestication of the beet-sugar industry. The present work treats of one of the numerous collateral industries associated with its successful development, and deals more especially with the important economic sale which the utilization of certain residual products of the beet-sugar manufacture is made to play in European countries, where the sugar-beet residuum, pulp and molasses are used most successfully for cattle-feeding.

The subject is elaborately treated, and the author's conclusions are supported by an impressive statement of facts and figures. The work should prove of much value to all agriculturists who have the intelligence to know the value of applying scientific methods in their practice.

The book is elaborately indexed.

W.

Franklin Institute.

[*Proceedings of the Stated Meeting held Wednesday, December 17, 1902.*]

HALL OF THE FRANKLIN INSTITUTE,
PHILADELPHIA, December 17, 1902.

President JOHN BIRKINBINE in the chair.

Present, 260 members and visitors.

Admitted to membership since last month, 12.

The following nominations were made for officers, managers and committeemen, to be voted for at the annual election to be held on the day of the annual meeting, Wednesday, January 21, 1903, viz.:

<i>For President</i>	(to serve one year)	JOHN BIRKINBINE.
" <i>Vice-President</i>	(" three years)	THEO. D. RAND.
" <i>Secretary</i>	(" one year)	WM. H. WAHL.
" <i>Treasurer</i>	(" ")	SAMUEL SARTAIN.
" <i>Auditor</i>	(" three years)	W. O. GRIGGS.

For Managers (to serve three years).

CYRUS BORGNER,
JAMES CHRISTIE,
F. L. GARRISON,
H. W. JAYNE,

JARWOOD LUKENS,
LAWRENCE T. PAUL,
HORACE PETTIT,
OTTO C. WOLF.

(To serve for two years.)

CHARLES LONGSTRETH,

WALTON CLARK,

LOUIS E. LEVY.

(To serve for one year.)

WALTER WOOD.

For Members of the Committee on Science and the Arts (to serve three years).

H. F. COLVIN,

C. C. HEYL,

LUCIEN E. PICOLET,

THOMAS P. CONARD,

H. R. HEYL,

CHAS. E. RONALDSON,

GEO. S. CULLEN,

GEO. A. HOADLEY,

CLAYTON W. PIKE,

CHARLES DAY,

H. F. KELLER,

SAMUEL P. SADTLER,

ARTHUR FALKENAU,

LOUIS E. LEVY,

HENRY LEFFMANN,

J. M. HARTMAN,

TINIUS OLSEN,

W. N. JENNINGS,

ERNEST M. WHITE,

RICH'D L. HUMPHREY.

(To serve for two years.)

KERN DODGE,

WERNER KAUFFMANN,

E. GOLDSMITH,

JESSE PAWLING, JR.,

FRANK ROSELLE.

(To serve for one year.)

ROBERT H. BRADBURY,

J. W. REDPATH,

WM. O. GRIGGS,

CHAS. A. RUTTER,

URBANE C. WANNER.

Mr. Chas. M. Taylor, Jr., gave an account of his invention of an improved and simplified method of making butter by what he termed the absorption process, and exhibited the process in operation and specimens of the product.

Dr. J. Merritt Matthews supplemented Mr. Taylor by some explanatory remarks on the scientific features of the process.

Prof. Eugene C. Foster followed with a communication describing an improved process of producing oxygen on the commercial scale from liquid air as operated by the Columbia Liquid Air Company, of Washington. D. C. The speaker illustrated the operation of the process experimentally.

On motion, both communications were referred to the Committee on Science and the Arts. Adjourned.

WM. H. WAHL, *Secretary.*