

THE FRANKLIN INSTITUTE.

(*Proceedings of the Stated Meeting held Wednesday, March 20, 1918.*)

HALL OF THE FRANKLIN INSTITUTE,

PHILADELPHIA, March 20, 1918.

PRESIDENT DR. WALTON CLARK *in the Chair.*

Additions to membership since last report, 6.

Reports of progress were presented by the Committee on Science and the Arts and the Committee on Library.

The President announced that the next business of the meeting would be the presentation of the Edward Longstreth Medal of Merit to Mr. Levi Talbot Edwards, and recognized Dr. H. Jermain Creighton, chairman of the Committee on Science and the Arts. Doctor Creighton made a brief statement in reference to the invention of the Air-Lift and its uses, and introduced the inventor, Mr. Edwards, who had been recommended by the Committee on Science and the Arts for the award of the Edward Longstreth Medal of Merit for his device. The President then presented the medal and accompanying certificate to Mr. Edwards, who thanked the Institute for the recognition bestowed upon him.

Mr. F. W. Sperr, Jr., Chief Chemist, The H. Koppers Company, Pittsburgh, Pa., then presented the paper of the evening, entitled "Characteristics of American Coals in By-products Coking Practice." The speaker called attention to the rapid replacement of the old beehive coke oven by the modern by-product oven, and some of the interesting economic developments in the coal industry which result from this change. The behavior of various American coals in the by-product oven was described in detail, and results of studies in this connection were presented. The coking property of coal and some of the important phenomena of the coking process were discussed. Attention was also given to the behavior of various typical coking coals in the by-product ovens, as well as the practical results of coking such coals, with respect to the yields of the various by-products, and the quality of the coke produced. The subject was illustrated by lantern slides and specimens.

After a brief discussion, the thanks of the meeting were extended to the speaker.

Adjourned.

GEORGE A. HOADLEY,
Acting Secretary.