

FRANKLIN INSTITUTE

(Proceedings of the Stated Meeting held Wednesday, October 18, 1911.)

HALL OF THE FRANKLIN INSTITUTE,
PHILADELPHIA, October 18, 1911.

PRESIDENT WALTON CLARK *in the Chair.*

Additions to membership since last report, 10.

The amendment to the By-laws relating to the election of the Board of Trustees, presented at the September meeting, was unanimously adopted.

Following the meeting of the Institute for the transaction of this business, a joint meeting was held with the American Society of Mechanical Engineers, Mr. Walton Clark, President of the Institute, and Mr. T. C. McBride, Chairman of the Philadelphia Section, jointly presiding, at which an important paper on "The Practical Application of Scientific Management to Railway Operation" was read by Mr. Wilson E. Symons, of Chicago. Mr. Symons dealt exhaustively with the subject of railway economics and the practical application of scientific methods to railway work, especially in the repair and motive power departments of railroads.

An interesting discussion followed the reading of the paper, in which the following gentlemen took part: Messrs. Webb C. Ball, Cleveland, O.; T. H. Clarke, Baltimore, Md.; A. L. Conrad, Chicago, Ill.; Harrington Emerson, New York City; Frank B. Gilbreth, New York City; George R. Henderson, Philadelphia; B. B. Milner, Wilmington, Del.; James Shirley Eaton, New York City; Charles Day, Philadelphia; Walter V. Turner, Pittsburgh, Pa., and S. M. Vauclain, Philadelphia.

Adjourned.

R. B. OWENS,
Secretary.

COMMITTEE ON SCIENCE AND THE ARTS.

(Abstract of proceedings of the Stated Meeting held Wednesday,
October 4, 1911.)

HALL OF THE FRANKLIN INSTITUTE,
PHILADELPHIA, October 4, 1911.

DR. GEORGE A. HOADLEY *in the Chair.*

The following reports were presented for first reading:

No. 2472.—Minnick's Concrete Piles. Advisory. Adopted.

No. 2499.—Santo Vacuum Cleaner.

No. 2506.—Sherardizing Metallic Surfaces.

The following was presented for final action:

No. 2477.—Granbery's Stadia Rod. Referred back to Subcommittee.

R. B. OWENS,
Secretary.