

nal combustion engine. Mr. Bivins's remarks were illustrated with the aid of a number of lantern pictures.

Mr. Henry Hess, representing the Hess-Bright Manufacturing Co., Philadelphia, followed with remarks having especial reference to the use of ball-bearings to reduce journal friction.

Mr. Francis Head gave a description of the Mietz-Weiss oil engine.

A general discussion followed, which was participated in by Messrs. John C. Parker, E. Goldsmith, Henry R. Heyl and the Chairman.

Adjourned.

WM. H. WAHL,
Secretary pro tem.

Franklin Institute.

(Proceedings of the stated meeting, held Wednesday, June 21, 1905.)

HALL OF THE FRANKLIN INSTITUTE,
PHILADELPHIA, Wednesday, June 21, 1905.

PRESIDENT JOHN BIRKINBINE in the chair.

Present, twenty-six members and visitors.

Additions to membership since last report, eight.

The paper of the evening was presented by Mr. George W. Fuller, of New York. It was entitled "Sewage Disposal from the Standpoint of Oysters and Other Shellfish, Especially With Reference to their Transmission of Typhoid Fever." The speaker pointed out that laboratory tests both here and in foreign countries had demonstrated the presence of various disease germs in shellfish, their life in the oyster, clam, etc., ranging from seven to twenty-one days, and said that while notable epidemics due to the eating of sewage-contaminated oysters are comparatively rare, there is no room for doubt that numerous sporadic cases have resulted from this cause. The investigations by the Royal Commission on Sewage Disposal of England, he said, indicate that about 10 per cent. of the total deaths from typhoid in London and Manchester are due to eating infected shellfish, but data on this point, in this country, have not been studied with sufficient care to give accurate conclusions.

The paper was discussed by Dr. George A. Loper, of New York; Dr. Henry Leffmann, of this city, and Kenneth Allen, engineer of the Water Supply of Atlantic City, all of whom agreed with the author of the paper that there should be a competent sanitary inspection of oyster beds in their relation to sewage contamination and that the sale or shipment of contaminated oysters should be prohibited by law.

The President expressed the thanks of the meeting to the speaker of the evening and to the participants in the discussion, and the meeting was adjourned.

WM. H. WAHL,
Secretary.