- Shinn, J. Improvement in the Manufacture of Heavy Guns and Shafts.
From the Author.
- Signal Office, U. S. Daily International Chart. December, 1887. Summary
and Review of International Meteorological Observations. December,
1887. From the Office.
- Stead, J. C. Useful Information Relative to the Economical Generation and
Employment of Steam. From F. Leclere.
- Storr's School Agricultural Experiment Station. Bulletin No. 3.
From the Station.
- Summit Branch Railroad Company and Lykens Valley Coal Company.
Annual Report for 1887 and 1888. From the Companies.
- Syracuse, N. Y. Report of Commissioners on Sources of Water Supply.
From J. J. R. Croes, New York City.
- Syracuse, N. Y. Report of Commissioners on Sources of Water Supply.
From the City Clerk.
- Taunton, Mass. First and Third Annual Reports of the Water Commis-
sioners for 1876 and 1878. (2 copies each.) From the Commissioners.
- Texas. Geological and Mineralogical Survey. First report of progress. E.
T. Dumble, State Geologist. 1888. From the State Geologist.
- Treasury Department, U. S. Comptroller of Currency. Annual Report.
1888. Vol. 2.
Annual Report of the Secretary for 1888.
From the Department.
- Virginia. Annual Report of the Commissioner of Fisheries. 1882.
From the Commissioner.
- Wisconsin Farmers' Institutes. 1888. Bulletin No. 2.
From W. H. Morrisson, Superintendent.
- Wisconsin State Board of Supervision. First to Third Biennial Reports.
1883-84 to 1887-88. From the Board.
- Wyoming Territory. Reports of the Governor to the Secretary of the Interior.
1886, 1887 and 1888. From the Governor.

Franklin Institute.

[*Proceedings of the Stated Meeting, held Wednesday, March 20, 1889.*]

HALL OF THE FRANKLIN INSTITUTE,
PHILADELPHIA, March 20, 1889.

JOSEPH M. WILSON, President, in the Chair.

Present, 170 members and seventy visitors.

Additions to membership during the past month, sixty-seven.

The special committee to increase membership made a report of progress
and was continued.

The special committee to prepare a memorial of the late WILLIAM PETTIT,

member of the INSTITUTE, presented a report, which was accepted and referred to the Committee on Publications.

Mr. WM. B. LE VAN presented a communication on the compound locomotive, giving historical account of the development of this improved form of engine, with especial reference to the English-built locomotive, "Dreadnaught," lately purchased by the Pennsylvania Railroad Company. Mr. LE VAN's remarks were illustrated with the aid of the lantern. (Referred for publication.)

Capt. E. L. ZALINSKI, U.S.A., read a paper on the "Pneumatic Dynamite Gun," giving a history of the experiments that had been made and the results attained in the art of throwing projectiles charged with high explosives from guns, with the aid of compressed air. The paper was fully illustrated with the aid of lantern pictures and the exhibition of important parts of the electrical discharging appliances employed. The paper evoked considerable discussion and has been referred for publication.

The thanks of the meeting were unanimously tendered to Captain ZALINSKI at the close of his address.

The President named the following standing committees of the INSTITUTE for the current year, viz :

STANDING COMMITTEES OF THE FRANKLIN INSTITUTE FOR THE YEAR 1889.

<i>Library.</i>	<i>Minerals.</i>	<i>Models.</i>
Charles Bullock,	Clarence S. Bement,	Edward Brown,
J. Howard Gibson,	Persifor Frazer,	John H. Cooper,
Fred'k Graff,	F. A. Genth,	C. Chabot,
Geo. A. Koenig,	Edwin J. Houston,	L. L. Cheney,
S. H. Needles,	George A. Koenig,	N. H. Edgerton,
Isaac Norris, Jr.,	Otto Lüthy,	John Goehring,
Chas. E. Ronaldson,	E. F. Moody,	Morris L. Orum,
Wm. P. Tatham,	H. Pemberton, Jr.,	Chas. Richardson,
John C. Trautwine, Jr.,	Theo. D. Rand,	John J. Weaver,
Lewis S. Ware.	Wm. H. Wahl.	S. Lloyd Wiegand.
<i>Arts and Manufactures.</i>	<i>Meteorology.</i>	<i>Meetings.</i>
J. Sellers Bancroft,	Lorin Blodget,	Hugo Bilgram,
George Burnham,	Charles M. Cresson,	Geo. V. Cresson,
Cyrus Chambers, Jr.,	Edwin J. Houston,	G. M. Eldridge,
Franklin M. Harris,	Isaac Norris, Jr.,	Fred'k Graff,
Wm. B. Le Van,	Alex. E. Outerbridge, Jr.,	Henry R. Heyl,
C. C. Newton,	J. S. W. Phillips,	Washington Jones,
Henry Pemberton,	M. B. Snyder,	G. H. Perkins,
Alex. Scott,	Wm. P. Tatham,	Sam'l R. Marshall,
Thomas Shaw,	H. Wiley Thomas,	Chas. E. Ronaldson,
Wm. Vollmer.	Wm. H. Wahl.	Wm. H. Thorne.

Adjourned.

WM. H. WAHL, *Secretary.*