THE FRANKLIN INSTITUTE

(Proceedings of the Stated Meeting held Wednesday, May 17, 1916.)

HALL OF THE FRANKLIN INSTITUTE,
PHILADELPHIA, May 17, 1916.

PRESIDENT DR. WALTON CLARK *in the Chair.*

Additions to membership since last report, 5.

The Chairman announced that the business of the meeting would be the annual presentation of the Institute's highest awards in recognition of distinguished scientific and technical achievements, and recognized Dr. Harry F. Keller, who gave an account of the work of Dr. Theodore William Richards, of Harvard University, recently recommended by the Institute's Committee on Science and the Arts for the Franklin Medal in recognition of his "numerous and important contributions to inorganic, physical, and theoretical chemistry, and particularly his classical series of redeterminations of the atomic weights of the more important chemical elements." Dr. Keller then read a letter from Mrs. Richards and a telegram from Dr. Richards regretting that a temporary illness prevented the latter from being present to receive the medal in person. The President announced that the medal and accompanying certificate would be forwarded to Dr. Richards.

Dr. Keller then introduced Dr. John J. Carty, chief engineer of the American Telephone and Telegraph Company, who had also been recommended for the award of the Franklin Medal in recognition of his "long-continued activities in the telephone service, his important and varied contributions to the telephone art, his work in the establishment of the principles of telephone engineering, and his signal success in directing the efforts of a large staff of engineers and scientists to the accomplishment of the telephonic transmission of speech over vast distances."

The Chairman presented the medal to Dr. Carty, who expressed his thanks for the honor conferred upon him and then read his paper on "The Telephone Art."

Dr. Keller was again recognized by the Chairman and described the work of the American Telephone and Telegraph Company, which had been recommended for the award of the Elliott Cresson Medal in recognition of its "constructive and far-seeing policy in the development of the art of telephony, in the promotion of telephone engineering, in the establishment of its telephone system in every part of the United States, and for placing all of the states of the Union in speaking communication." He introduced Mr. Theodore N. Vail, president of the company, to whom the medal was presented. Mr. Vail, in a brief address, expressed his thanks and the thanks of his associates and every individual of the Bell System for the complimentary tribute.

Dr. Hoadley was then called upon to read Dr. Richards's address on

"The Essential Attributes of the Elements," which had been prepared for the occasion.

This was followed by a demonstration of transcontinental and wireless telephony given by the American Telephone and Telegraph Company. Messages were received from and transmitted to numerous western cities, including Pittsburgh, Chicago, Denver, Omaha, Salt Lake City, Winnemucca, and San Francisco. Telephonic communications were received by wire at Arlington, Virginia, then transmitted by wireless to New York City, and from that city by wire to the audience.

Greetings were exchanged by various members of the Institute and non-resident members and others in San Francisco, and musical selections played in the latter city were heard by the entire audience, each chair being supplied with a telephone receiver.

A talking-moving picture of Mr. Thomas A. Watson, early associate of Dr. Alexander Graham Bell, describing the latter's earliest experiments with the telephone, as well as moving pictures of telephone construction and operation, were shown.

Adjourned.

R. B. OWENS,
Secretary.

Demonstrations of transcontinental telephony were repeated at 6, 7:15, and 8:30 o'clock P.M., at which Vice-president Louis E. Levy presided. Each demonstration was preceded by an explanatory address by Mr. W. F. Schmidt, of the American Telephone and Telegraph Company.

(A full account of the meeting will appear in the next issue.)

COMMITTEE ON SCIENCE AND THE ARTS.

(Abstract of Proceedings of the Stated Meeting held Wednesday, May 3, 1916.)

HALL OF THE FRANKLIN INSTITUTE,
PHILADELPHIA, May 3, 1916.

MR. C. E. BONINE *in the Chair.*

The following report was presented for final action:

No. 2667.—Dixie Magneto. Advisory.

The following report was presented for first reading:

No. 2672.—Self-adjusting Pipe Wrench. Advisory.

R. B. OWENS,
Secretary.

SECTIONS.

Mechanical and Engineering Section.—A meeting of the Section was held in the Hall of the Institute on Thursday, April 27, 1916, at 8 P.M.

Mr. George R. Henderson, president of the Section, occupied the chair.

Mr. Walter V. Turner, assistant manager, Westinghouse Air Brake Company, Wilmerding, Pa., delivered a lecture, entitled "The Vital Relation