

ranged for Wednesday afternoon. The titles of the papers were:—

"Some Phases of Distribution Work," by W. A. Foley; "Double Forty-Eight-Inch Manifold at Bissell's Point," by C. M. Daily; "New 110-Million Gallon Pump at Chain of Rocks," by L. A. Day; and "Some Aspects of the Chemical Treatment at St. Louis Waterworks," by A. V. Graf.

Seventy Members From Canada

After the papers had been presented, the nominating committee was elected; then the suggested places for holding the 1919 convention were voted upon. The Dominion of Canada has now seventy members in the American Waterworks Association, so H. Hymmen, of Kitchener, Ont., was elected from District No. 1 as the district's representative on the nominating committee. This district includes the Dominion of Canada and the states of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, Michigan and Wisconsin. Only two cities made a decided bid for the 1919 convention,—Buffalo and Detroit. Buffalo got 114 votes; Detroit, 52; so the next convention will be at Buffalo, N.Y.

At noon (Wednesday) the delegates sailed up the Mississippi River for about twenty miles, to the mouth of the Missouri River. On the return trip a stop was made at the city's waterworks, and the pumping and filter plants were inspected. The supply is pumped from the Mississippi River into seven settling basins that have a combined capacity of 200 million gallons. The mechanical filter plant, which was installed by the Pittsburg Filter Manufacturing Co., has a registered capacity of 160 million gallons per 24 hours, and is the largest filter plant in the world.

The pumping equipment consists of four Allis-Chalmers engines, with a capacity of 40 million gallons per day; twin De Laval steam turbine pumps, with a capacity of 30 million gallons per day; and a 110-million-gallon De Laval steam turbine pump which is now under construction.

Toronto Member Killed at the Front

Three papers were read Wednesday evening:—"The Literature of Field Water Supply," by Jack J. Hinman, Jr.; "The Practicability of Adopting Standards of Quality for Water Supplies," by Robert Morse and Abel Wolman (see page 485 of this issue); and "The Preliminary Analysis of the Degree and Nature of Bacterial Removal in Filter Plants," by Abel Wolman.

Thursday was "Superintendents' Day," and was devoted to general discussion on water mains, water consumption, frozen service pipes, fire hydrants, office records, pipe-laying, etc. In the evening two papers were read:—"Loss of Head in Service Cocks and Service Pipes," by B. J. Bleisteine; and "Lead Pipe Couplings," by J. A. Jensen.

Four amendments to the constitution, which were sent out to the members some weeks ago, were adopted almost unanimously.

The service flag of the association, which hung outside the door of Secretary Diven, showed that 109 members are serving in the allied armies and navies. Only one member has been called upon to pay the supreme sacrifice, Lt.-Col. T. C. Irving, of Toronto, who was killed October 30th, 1917.

Officers were elected for the coming year as follows:—President, Charles R. Henderson, manager of the Davenport Water Co., Davenport, Iowa; vice-president; Carlton E. Davis, chief of the Bureau of Water,

Philadelphia, Pa.; treasurer, James M. Caird, consulting chemist, Troy, N.Y.; trustees, J. J. Hinman, Jr., State Board of Health, Iowa, Ia.; and Allan W. Cuddeback, Passaic Water Co., Paterson, N.J.

At a meeting of the American Waterworks Manufacturers' Association, held during the convention, the following officers were elected for the ensuing year:—President, T. C. Clifford, of the Pittsburg Meter Co.; vice-president, E. D. Kingsley, of the Electro-Bleaching Gas Co.; secretary, John A. Kienle, of the Electro-Bleaching Gas Co.; treasurer, Chas. R. Wood, of R. D. Wood & Co.

Fifty Exhibits, All Uniform

Owing to transportation difficulties, it was deemed advisable to confine the exhibits chiefly to displays of models, photographs, drawings, etc. Each exhibitor was limited to 50 lbs. as the weight of his exhibit. There were about fifty booths, all uniform in size and arrangement. The general appearance of the exhibition was very attractive, as the booths were handsomely decorated. Among those who had booths were the following:—

Birch-Hintz Co., Chicago. Represented by W. T. Birch, of the Chicago office.

Buffalo Meter Co., Buffalo. Represented by E. W. Widdows, of the Chicago office.

Builders Iron Foundry, Providence, R.I. Represented by A. B. Coulters, of Providence, and D. J. Purdie, of New York.

Dixon Crucible Co., Joseph, Jersey City. Represented by A. T. L. Smith, of St. Louis.

Eddy Valve Co., Waterford, N.Y. Represented by Harry A. Holmes, of Waterford.

Electro-Bleaching Gas Co., New York City. Represented by E. D. Kingsley, president; John A. Kienle; G. R. Ellis; S. W. Jacobs; and D. K. Bartlett, who recently joined this firm after having been with the Builders Iron Co. for several years.

Harrison Bros., Inc., Philadelphia, Pa. Represented by J. J. Haas.

Leadite Co., Inc., Philadelphia, Pa. Represented by Geo. McKay, Jr., and James P. McKay.

Modern Iron Works, Quincy, Ill. Represented by Dwight P. Child, assistant manager.

Mueller Mfg. Co., Decatur, Ill., and Sarnia, Ont. Represented by Fred B. Mueller and E. E. Pedlow.

National Water Main Cleaning Co., New York. Represented by Burt Hodgman.

Neptune Meter Co., New York. Represented by S. T. Hard and H. A. Beynon.

New York Continental Filtration Co., New York. Represented by Arthur M. Crane, general sales manager.

Pennsylvania Salt Mfg. Co., Philadelphia, Pa. Represented by N. E. Bartlett, of Philadelphia.

Permutit Co., New York. Represented by J. L. Cheney.

Pitometer Co., New York. Represented by E. S. Cole, president, and E. D. Case, manager.

Pittsburg Filter Mfg. Co., Pittsburg, Pa. Represented by J. P. Leopold and E. W. Bacharach.

Pittsburg Meter Co., Pittsburg, Pa. Represented by T. C. Clifford, F. H. Bradford, R. M. Stottler and S. G. Swaffield.

R. U. V. Co., New York City. Represented by Mason Hullet, of New York City, and Dr. Harry M. Hill, of the Kansas City office.

Rensselaer Valve Co., Troy, N.Y. Represented by Irving K. Rowe and Geo. A. Keefer, both of Troy.

Ross Valve Co., Troy, N.Y. Represented by Wm. Ross, of Troy. (Concluded on next page)