

PERSONAL.

NEIL G. BEGGS, architect, Toronto, has accepted a commission in the Canadian Engineers.

H. R. McMILLAN, chief forester of British Columbia, has resigned his position to enter the lumber business.

H. J. STANDER, of Brunswick, Ga., will superintend experimental flotation work for the Mond Nickel Co. at Coniston, Ont.

BRUCE RITCHIE, formerly on the engineering staff of the Consolidated Mining and Smelting Co., Trail, B.C., has won the D.S.O. at the front.

J. H. McMILLAN, of Cumberland, B.C., has been appointed inspector of mines in Northern British Columbia with headquarters at Prince Rupert.

BION J. ARNOLD, M.Am.Soc.C.E., of Chicago, tramways expert, has been appointed by the board of control of Montreal to investigate and report upon the tramways question.

J. G. SULLIVAN, chief engineer of C.P.R. western lines, with headquarters at Winnipeg, has been elected first vice-president of the American Railway Engineering Association.

GEORGE W. CRAIG, city engineer of Calgary, Alta., will go to Moose Jaw, at the request of the city commissioners, to give engineering testimony on matters pertaining to sewer construction.

W. K. GWYER, formerly on the engineering staff of the C.N.R., has succeeded G. P. NAPIER as assistant engineer of the public works department at Victoria, B.C., Mr. Napier having enlisted for active service.

Dr. HORACE L. BRITAIN, director of the Bureau of Municipal Research, Toronto, will address the members of the Engineer's Club of Toronto this evening on "Participation of the Citizens in Government."

F. W. TEELE, formerly vice-president and general manager of the Porto Rico Railways Co., has been elected vice-president of the Southern Canada Power Co., Montreal, and J. B. WOODYATT has been appointed manager.

E. H. HAMILTON has been appointed manager of the spelter plant of the Consolidated Mining and Smelting Co., Limited, Trail, B.C., succeeding F. W. GUERNSEY, who has joined the staff of W. H. Aldridge at San Francisco, Cal.

C. H. NEEDS, A.M.Can.Soc.C.E., formerly of Toronto and now of Galt, Ont., is leaving for England this week, having enlisted in the Canadian Aviation Corps. Prior to the war, Mr. Needs was resident engineer of the Canadian Northern Railway. Since the outbreak of war he has been an inspector of munition plants with the Canadian Inspection Co., principally of plants at Galt. This position he has just resigned in order to enlist.

OBITUARY.

ARTHUR H. CHADWICK, director and manager of the Canadian Chadwick Metal Co., of Hamilton, Ont., died on November 8th, aged 50.

JOHN BANNERMAN, a well-known resident of Ottawa, passed away recently, following an operation. He was born in Scotland 66 years ago and came to Canada at an early age, settling in Ottawa. Formerly he was a member of the firm of Powers & Bannerman, and constructed the first main for the Ottawa waterworks system.

DAVID McNICOLL, of Montreal, formerly vice-president and general manager of the Canadian Pacific Railway Co., died on November 26th at Guelph, Ont., after a protracted period of ill-health. Mr. McNicoll was born in Arbroath, Scotland, 66 years ago, and came to Canada in 1874. He retired from the C.P.R. two years ago.

Sir HIRAM MAXIM, inventor of the automatic system of firearms, died at his home in London, England, on November 24th. Born in Sangerville, Maine, on February 5, 1840, he was a descendant of English Puritans. After a meagre schooling he went to work in a machine shop. At 28 he was a draftsman in a large steamship building concern in New York City, where he invented a new locomotive headlight, which was very successful. He also did much to perfect automatic gas machines for lighting private houses. In 1877 he took up the study of electricity, and was among the first to make dynamo electric machines and electric lamps in the United States. In 1881 he was made a Chevalier of the French Legion of Honor. The Maxim automatic gun was invented in 1884 in London, and was immediately adopted by the British government, which used it in the war with the Matabele in Africa. The gun fired 600 rounds a minute. Some years later Sir Hiram, created a baronet by Queen Victoria after having become naturalized as an Englishman, invented the first smokeless powder. In 1894 he invented a heavier than air flying machine which raised itself from the ground carrying a driver and passenger. This was nine years before the first practicable aeroplane was created by the Wright brothers. Sir Hiram's machine was a ponderous affair, and broke down in its early trial. In 1915 the inventor was appointed a member of the Inventions Board created by the British government to meet the needs of the war.

DECEMBER MEETINGS.

PAVING BRICK INSTITUTE. Meeting in Cleveland at Statler, December 5-6. Assistant Secretary, H. M. Macdonald, 830 Brotherhood of Loc. Engrs. Bldg., Cleveland, Ohio.

AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS. Annual meeting, St. Louis, Mo., December 5-7. Secretary, Dr. Joseph Hyde Pratt, Chapel Hill, N.C.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS. Annual meeting, New York, N.Y., December 5-8. Secretary, Calvin W. Rice, 239 West 39th Street, New York.

NORTHWESTERN ROAD CONGRESS. Third annual meeting at Hotel Sherman, Chicago, December 7-8, 1916.

PORTLAND CEMENT ASSOCIATION. Annual meeting, New York, N.Y., December 11-13. Assistant to General Manager, A. H. Ogle, Chicago, Ill.

SOCIETY OF AMERICAN BACTERIOLOGISTS. Annual meeting, New Haven, Conn., December 26-28. Secretary, Dr. A. Parker Hitchens, Glenolden, Pa.

OKLAHOMA SOCIETY OF ENGINEERS. Annual meeting in Tulsa, December 27-28. Secretary, H. G. Hinckley, Oklahoma City.

AMERICAN STATISTICAL ASSOCIATION. Annual meeting, Columbus, O., December 27-30. Secretary, Carroll W. Doten, 491 Boylston Street, Boston, Mass.