

factor in the development of the Bessemer process, the acid and basic open-hearth and the electric furnace. He was a past president of the American Society of Mechanical Engineers; a past president of the American Institute of Mining Engineers; a member of the American Society of Civil Engineers; an associate fellow of the American Academy of Arts and Sciences; and honorary vice-president of the Iron and Steel Institute of Great Britain. From the last named society he received the Bessemer gold medal in 1893 for notable service in advancing the manufacture of steel. He was awarded the John Fritz medal by the United Engineering Societies in 1902, and the Elliott Cresson medal in 1910.

## AMERICAN SOCIETY MECHANICAL ENGINEERS.

The American Society of Mechanical Engineers will hold a joint meeting with the Verein Deutscher Ingenieure in Germany, beginning June 22nd, 1913. The principal industries of Germany will be visited, including the Krupp Iron Works, at Essen.

## COMING MEETINGS.

**ILLUMINATING ENGINEERING SOCIETY.**—A joint meeting of Societies will be held at the Republican House, Milwaukee, Wis. Feb. 22, 1913.

**THE CLAY PRODUCTS EXPOSITION.**—To be held in the Coliseum, Chicago, Feb. 26th to Mar. 8th.

**ILLINOIS WATER SUPPLY ASSOCIATION.**—The Fifth Annual Meeting of the Association will be held at the University of Illinois, Campaign-Urbana, Ill., March 11th and 12th, 1913. Secretary, Edward Bartow.

**NATIONAL PAVING BRICK MANUFACTURERS' ASSOCIATION.**—Annual Meeting will be held March 3, 4 and 5, 1913, in the Green Room, Congress Hotel and Annex, Chicago, Ill. Secretary, Will P. Blair.

**CANADIAN MINING INSTITUTE.**—Annual Meeting will be held at Chateau Laurier, Ottawa, March 5th, 6th and 7th. H. Mortimer Lamb, Windsor Hotel, Montreal, Secretary.

**CANADIAN ELECTRICAL ASSOCIATION.**—Annual Convention will be held in Fort William, June 23, 24 and 25. Secretary, T. S. Young, 220 King Street W., Toronto.

**THE INTERNATIONAL ROADS CONGRESS.**—The Third International Roads Congress will be held in London, England, in June, 1913. Secretary, W. Rees Jeffreys, Queen Anne's Chambers, Broadway, Westminster, London, S.W.

**THE INTERNATIONAL GEOLOGICAL CONGRESS.**—Twelfth Annual Meeting to be held in Canada during the summer of 1913. Secretary, W. S. Lecky, Victoria Memorial Museum, Ottawa

## ENGINEERING SOCIETIES.

**CANADIAN SOCIETY OF CIVIL ENGINEERS.**—413 Dorchester Street West, Montreal. President, Phelps Johnson; Secretary, Professor C. H. McLeod.

**KINGSTON BRANCH.**—Chairman, A. K. Kirkpatrick; Secretary, L. W. Gill; Headquarters: School of Mines, Kingston.

**OTTAWA BRANCH.**—177 Sparks St. Ottawa. Chairman, R. F. Uniacke, Ottawa; Secretary, H. Victor Brayley, N.T. Ry., Cory Bldg. Meetings at which papers are read, 1st and 3rd Wednesdays of fall and winter months; on other Wednesday nights in month there are informal or business meetings.

**QUEBEC BRANCH.**—Chairman, W. D. Baillairge; Secretary, A. Amos; meetings held twice a month at room 40, City Hall.

**TORONTO BRANCH.**—96 King Street West, Toronto. Chairman, E. A. James; Secretary-Treasurer, A. Garrow. Meets last Thursday of the month at Engineers' Club.

**VANCOUVER BRANCH.**—Chairman, G. E. G. Conway; Secretary-Treasurer, F. Pardo Wilson, Address: 422 Pacific Building, Vancouver, B.C.

**VICTORIA BRANCH.**—Chairman, F. C. Gamble; Secretary, R. W. MacIntyre; Address P.O. Box 1290.

**WINNIPEG BRANCH.**—Chairman, J. A. Hesketh; Secretary, E. E. Brydone-Jack; Meets every first and third Friday of each month, October to April, in University of Manitoba, Winnipeg.

## MUNICIPAL ASSOCIATIONS

**ONTARIO MUNICIPAL ASSOCIATION.**—President, Mayor Lees, Hamilton. Secretary-Treasurer, Mr. K. W. McKay, County Clerk, St. Thomas, Ontario.

**SASKATCHEWAN ASSOCIATION OF RURAL MUNICIPALITIES.**—President, George Thompson, Indian Head, Sask.; Secy-Treasurer, E. Hingley, Radisson, Sask.

**THE ALBERTA L. I. D. ASSOCIATION.**—President, Wm. Mason, Bon Accord, Alta. Secy-Treasurer, James McNicol, Blackfalds, Alta.

**THE UNION OF CANADIAN MUNICIPALITIES.**—President, Chase Hopewell, Mayor of Ottawa; Hon. Secretary-Treasurer, W. D. Lighthall, K.C. Ex-Mayor of Westmount.

**THE UNION OF NEW BRUNSWICK MUNICIPALITIES.**—President, Councillor Siddall, Port Elgin; Hon. Secretary-Treasurer, J. W. McCreedy, City Clerk, Fredericton.

**UNION OF NOVA SCOTIA MUNICIPALITIES.**—President, Mr. A. S. MacMillan, Warden, Antigonish, N.S.; Secretary, A. Roberts, Bridgewater, N.S.

**UNION OF SASKATCHEWAN MUNICIPALITIES.**—President, Mayor Bee, Lemberg; Secy-Treasurer, W. F. Heal, Moose Jaw.

**UNION OF BRITISH COLUMBIA MUNICIPALITIES.**—President, Mayor Planta, Nanaimo, B.C.; Hon. Secretary-Treasurer, Mr. H. Bose, Surrey Centre, B.C.

**UNION OF ALBERTA MUNICIPALITIES.**—President, F. P. Layton, Mayor of Camrose; Secretary-Treasurer, G. J. Kinnaird, Edmonton, Alta.

**UNION OF MANITOBA MUNICIPALITIES.**—President, Reeve Forke, Pipestone, Man.; Secy-Treasurer, Reeve Cardale, Oak River, Man.

## CANADIAN TECHNICAL SOCIETIES

**ALBERTA ASSOCIATION OF ARCHITECTS.**—President, R. W. Lines, Edmonton; Hon. Secretary, W. D. Cromarty, Edmonton, Alta.

**ASSOCIATION OF SASKATCHEWAN LAND SURVEYORS.**—President, J. L. R. Parsons, Regina; Secretary-Treasurer, M. B. Weeks, Regina.

**ASTRONOMICAL SOCIETY OF SASKATCHEWAN.**—President, N. Mc Murchy; Secretary, Mr. McClung, Regina.

**BRITISH COLUMBIA LAND SURVEYORS' ASSOCIATION.**—President, W. S. Drewry, Nelson, B.C.; Secretary-Treasurer, S. A. Roberts, Victoria, B.C.

**BRITISH COLUMBIA SOCIETY OF ARCHITECTS.**—President, Houlit Horton; Secretary, John Wilson, Victoria, B.C.

**BUILDERS' CANADIAN NATIONAL ASSOCIATION.**—President, E. T. Nesbitt; Secretary-Treasurer, J. H. Lauer, Montreal, Que.

**CANADIAN ASSOCIATION OF STATIONARY ENGINEERS.**—President, Wm. Norris, Chatham, Ont.; Secretary, W. A. Crockett, Mount Hamilton, Ont.

**CANADIAN CEMENT AND CONCRETE ASSOCIATION.**—President, Peter Gillespie, Toronto, Ont.; Secretary-Treasurer, Wm. Snaith, 57 Adelaide Street, Toronto, Ont.

**CANADIAN CLAY PRODUCTS' MANUFACTURERS' ASSOCIATION.**—President, W. McCredie; Secretary-Treasurer, D. O. McKinnon, Toronto

**CANADIAN ELECTRICAL ASSOCIATION.**—President, A. A. Dion, Ottawa; Secretary, T. S. Young, 220 King Street W., Toronto.

**CANADIAN FORESTRY ASSOCIATION.**—President, John Hendry, Vancouver. Secretary, James Lawler Canadian Building, Ottawa.

**CANADIAN GAS ASSOCIATION.**—President, Arthur Hewitt, General Manager Consumers' Gas Company, Toronto; John Kelilor, Secretary-Treasurer, Hamilton, Ont.

**CANADIAN INDEPENDENT TELEPHONE ASSOCIATION.**—President, W. Doan, M.D., Harrietsville, Ont.; Secretary-Treasurer, Francis Dagger, 27 Richmond Street West, Toronto.

**THE CANADIAN INSTITUTE.**—198 College Street, Toronto. President J. B. Tyrrell; Secretary, Mr. J. Patterson.

**CANADIAN MINING INSTITUTE.**—Windsor Hotel, Montreal. President, Dr. A. E. Barlow, Montreal; Secretary, H. Mortimer Lamb, Windsor Hotel, Montreal.

**CANADIAN PEAT SOCIETY.**—President, J. McWilliam, M.D., London, Ont.; Secretary-Treasurer, Arthur J. Forward, B.A., 22 Castle Building, Ottawa, Ont.

**THE CANADIAN PUBLIC HEALTH ASSOCIATION.**—President, Dr. Charles A. Hodgetts, Ottawa; General Secretary, Major Lorne Drum, Ottawa.

**CANADIAN RAILWAY CLUB.**—President, A. A. Goodchild; Secretary, James Powell, P.O. Box 7, St. Lambert, near Montreal, P.Q.

**CANADIAN STREET RAILWAY ASSOCIATION.**—President, Patrick Dube, Montreal; Secretary, Acton Burrows, 70 Bond Street, Toronto.

**CANADIAN SOCIETY OF FOREST ENGINEERS.**—President, Dr. Fernow, Toronto; Secretary, F. W. H. Jacombe, Department of the Interior, Ottawa.

**CENTRAL RAILWAY AND ENGINEERING CLUB.**—Toronto, President, G. Baldwin; Secretary, C. L. Worth, 409 Union Station. Meets third Tuesday each month except June, July and August.

**DOMINION LAND SURVEYORS.**—President, Mr. R. A. Belanger, Ottawa; Secretary-Treasurer, E. M. Dennis, Dept. of the Interior, Ottawa.

**EDMONTON ENGINEERING SOCIETY.**—President, J. Chalmers; Secretary, B. F. Mitchell, City Engineer's Office, Edmonton, Alberta.

**ENGINEERING SOCIETY, TORONTO UNIVERSITY.**—President, J. B. Ritchie; Corresponding Secretary, C. C. Rous.

**ENGINEERS' CLUB OF MONTREAL.**—Secretary, C. M. Strange, 9 Beaver Hall Square, Montreal.

**ENGINEERS' CLUB OF TORONTO.**—96 King Street West. President, Willis Chipman; Secretary, R. B. Wolsey. Meeting every Thursday evening during the fall and winter months.

**INSTITUTION OF ELECTRICAL ENGINEERS.**—President, Dr. G. Kapp; Secretary, P. F. Rowell, Victoria Embankment, London, W.C.; Hon. Secretary-Treasurer for Canada, Lawford Grant, Power Building, Montreal, Que.

**INSTITUTION OF MINING AND METALLURGY.**—President, Edgar Taylor; Secretary, C. McDermid, London, England. Canadian members of Council:—Prof. F. D. Adams, J. B. Porter, H. E. T. Haultain and W. H. Miller and Messrs W. H. Trewartha-James and J. B. Tyrrell.

**INTERNATIONAL ASSOCIATION FOR THE PREVENTION OF SMOKE.**—Secretary R. C. Harris, City Hall, Toronto.

**MANITOBA ASSOCIATION OF ARCHITECTS.**—President, W. Fingland, Winnipeg; Secretary, R. G. Hanford.

**MANITOBA LAND SURVEYORS.**—President, George McPhillips; Secretary-Treasurer, C. G. Chataway, Winnipeg, Man.

**NOVA SCOTIA MINING SOCIETY.**—President, T. J. Brown, Sydney Mines, C. B.; Secretary, A. A. Hayward.

**NOVA SCOTIA SOCIETY OF ENGINEERS, HALIFAX.**—President, J. N. MacKenzie; Secretary, A. R. McCleave, Assistant Road Commissioner's Office, Halifax, N.S.

**ONTARIO ASSOCIATION OF ARCHITECTS.**—President, C. P. Meredith, Ottawa; Secretary, H. E. Moore, 195 Bloor St. E., Toronto.

**ONTARIO PROVINCIAL GOOD ROADS ASSOCIATION.**—President, Major, T. L. Kennedy; Hon. Secretary-Treasurer, J. E. Farewell, Whitby; Secretary-Treasurer, G. S. Henry, Oriole.

**ONTARIO LAND SURVEYORS' ASSOCIATION.**—President, T. B. Speight, Toronto; Secretary, L. V. Rorke, Toronto.

**TECHNICAL SOCIETY OF PETERBORO.**—Bank of Commerce Building, Peterboro. General Secretary, N. C. Mills, P.O. Box 995, Peterboro, Ont.

**THE PEAT ASSOCIATION OF CANADA.**—Secretary, Wm. J. W. Booth, New Drawer, 2263, Main P.O., Montreal.

**PROVINCE OF QUEBEC ASSOCIATION OF ARCHITECTS.**—Secretary, J. E. Ganier, No. 5 Beaver Hall Square, Montreal.

**REGINA ENGINEERING SOCIETY.**—President, A. J. McPherson, Regina; Secretary, J. A. Gibson, 2429 Victoria Avenue, Regina.

**ROYAL ARCHITECTURAL INSTITUTE OF CANADA.**—President, H. C. Russell, Winnipeg, Man.; Hon. Secretary, Alcide Chausse, No. 5 Beaver Hall Square, Montreal, Que.

**ROYAL ASTRONOMICAL SOCIETY.**—President, Prof. Louis B. Stewart, Toronto; Secretary, J. R. Collins, Toronto.

**SOCIETY OF CHEMICAL INDUSTRY.**—Wallace P. Cohoe, Chairman, Alfred Burton, Toronto, Secretary.

**UNDERGRADUATE SOCIETY OF APPLIED SCIENCE, MCGILL UNIVERSITY.**—President, W. G. Mitchell; Secretary, H. F. Cole.

**WESTERN CANADA IRRIGATION ASSOCIATION.**—President, Duncan Marshall, Edmonton, Alta. Permanent Secretary, Norman S. Rankin, P.O. Box 1317, Calgary, Alta.

**WESTERN CANADA RAILWAY CLUB.**—President, R. R. Nield; Secretary, W. H. Rosevear, P.O. Box 1707, Winnipeg, Man. Second Monday, except June, July and August at Winnipeg.