

work for genius. Yet the engineer takes this in his stride on the road to his technical goal.

The present is a machine-made age, run by engineers who underpin everything, but guided, directed and controlled by lawyers and professional politicians. To gain efficiency in public affairs and reconstruct the national machine is work for the engineer in the broader field. Efficiency is the watchword of the engineer. Economy is taken for granted in his work. Discrimination in the selection of his material, both human and otherwise, is a daily exercise. Psychologist, administrator, executive, philanthropist, accountant, scientific investigator,—practical, shrewd, kindly, impatient of error, intolerant of the shirker,—his value needs no testimony.

PERSONALS

D. O. L'ESPERANCE, president of the Quebec Harbor Commission, has been officially appointed as senator.

G. H. CLOTHIER has been appointed district engineer of the Northwestern Mineral Survey District of British Columbia, with headquarters at Prince Rupert.

F. X. COUTURE was recently appointed superintendent of the Sherbrooke Railway and Power Company. He has been in the service of that company for twenty years.

ARTHUR VINCENT, A.M.Can.Soc.C.E., formerly with the Road Department, Montreal, has been appointed town engineer of Longueuil, P.Q., in succession to the late F. Barbeau.

HARRY A. MCKNIGHT has resigned as superintendent of the plant of the American Car & Foundry Co., Jeffersonville, Ind., to enter the operating department of the Canadian Car & Foundry Co., Montreal, Que.

Prof. E. E. BRYDONE-JACK, M.Can.Soc.C.E., formerly professor of civil engineering, Manitoba University, Winnipeg, has been appointed superintendent of engineering for the Dominion Public Works Department for Western Canada.

R. BRUCE WALLACE, operating manager of the Port Arthur Shipbuilding Co., has resigned to become general manager of a plant at Norfolk, Virginia. J. S. FENN, late secretary-treasurer of the Port Arthur plant, goes to the same place as purchasing agent.

Lieut. C. S. DEGRUCHY, Jr. Mem.Can.Soc.C.E., formerly assistant engineer on the Halifax Ocean Terminals, is reported wounded. He is serving with a unit of the Canadian artillery, and was awarded the Military Cross for his work during the Somme offensive.

Hon. ROBERT ROGERS, Minister of Public Works, Ottawa, received complete and absolute vindication, personally and officially, from the condemnatory findings of Mr. Justice Galt, of Winnipeg, in the report of the Appellate Commission appointed to review the case, and has resumed his duties.

R. C. HARRIS, Commissioner of Works, Toronto, has been appointed by Sir William Hearst to the position of associate fuel commissioner for Ontario, to act in association with the Dominion fuel commissioner, C. A. Magrath. Mr. Magrath stated that similar appointments will be made in all provinces.

R. B. PRIESTMAN, formerly connected with the Eagle & Globe Steel Co., Montreal, has enlisted for overseas service, having signed up with the Cobourg Heavy Battery. He has since been promoted to the position of corporal. H. C. OPIE, for several years connected with

the sales staff of Alexander Gibb, Montreal, will succeed him.

ARTHUR S. G. RICHARDS, a Vancouver surveyor, was killed in France while in charge of a party of the 5th Battalion Railway Corps. He served his articles with W. H. Powell, Dominion Land Surveyor, Vancouver, and later was engaged on the C.N.R. survey under Mr. Gwyer, and subsequently on the P.G.E. Railway in the Cariboo country, leaving as sergeant in charge of a draft, but on reaching England he was transferred to the Railway Corps for service at the front.

OBITUARY

JAMES FULTON CUMMINGS, electrical engineer, who for many years was associated with the interests controlled by Thomas A. Edison, died on July 27th at Long Beach, N.Y. Mr. Cummings, who was born in London, Ont., 48 years ago, installed the first electric light stations in Philadelphia, Cincinnati and a number of other cities. He then went to Russia, where he worked out the plans by which electric wires in St. Petersburg (Petrograd) were placed in underground conduits. He did similar work in London and other English cities.

RESEARCH LEGISLATION

The legislation under which the new advisory council for scientific and industrial research will carry on its labors was put through the House of Commons at Ottawa last Monday. The bill provided by statute the authority conferred upon the council by the order-in-council under which it was appointed.

Sir George Foster, in explaining the bill, said that Great Britain and the United States had developed a movement whereby in the future they would be ensured from being cut off from supplies of basic materials and processes. The advisory council in Great Britain, he said, had been resolved into an Imperial trust with a capital of about \$5,000,000, and this and other funds would be used towards general scientific trade advancement. It has been found desirable that this society work with branches overseas and thus the Dominion council had been organized to co-operate. A number of scientists and business men are giving their services to the council free, said Sir George, although some of them receive a salary. The chairman, Dr. McCallum, of Toronto, is paid \$10,000 a year.

The bill provides for a series of studentships and fellowships to encourage young men to take up scientific research, the studentships amounting to \$600 a year and the fellowships to \$1,200.

After the adjustment of peace, said Sir George, this system of close relation between scientific research and business would be absolutely needed to meet the new conditions.

One result of the work of this commission, Sir George hoped, would be that means would be found to keep our best-trained men in Canada instead of having them called over to the United States at big salaries to advance industries there.

Sir Wilfrid Laurier said that the project seemed to be a very commendable one, especially in that it will co-operate with societies in the United Kingdom, Australia and other parts of the Empire.