

lines of investigation the advisory council would say: That is all very well for pure science, but we want to get hold of what attaches itself particularly to the uses of industrial work; your line of investigation is good in its way, but we will not take that. They have the power to make their choice, and in that way they come to their conclusions as to who shall receive these studentships.

Mr. PUGSLEY: Would the minister kindly state in what line of work Professor MacCallum has achieved distinction? The minister might also tell us who comprise the advisory board.

Sir GEORGE FOSTER: I thought my hon. friend understood all about it, and I did not want to bother him with it.

Mr. PUGSLEY: I think it is well to publish it.

Sir GEORGE FOSTER: I have already read it in the House.

Mr. PUGSLEY: Does it appear on Hansard?

Sir GEORGE FOSTER: Yes. The administrative chairman is A. B. MacCallum, M.D., Ph.D., Sc.D., LL.D., F.R.S., Ottawa.

Sir WILFRID LAURIER: What do all these letters mean?

Mr. GRAHAM: We want an interpretation clause.

Sir GEORGE FOSTER: I do not want to make the matter too easy for the hon. gentlemen opposite. The members of the council are: F. D. Adams, Ph.D., Sc.D., LL.D., F.R.S. Dean, Faculty of Applied Science, McGill University, Montreal; T. Bienvenu, Esq., vice-president and general manager, La Banque Provinciale du Canada, Montreal; R. Hobson, Esq., president Steel Company of Hamilton, Ont.; S. F. Kirkpatrick, M.Sc., professor metallurgy, Queen's University, Kingston, Ont.; J. C. McLennan, Ph.D., F.R.S., professor of physics and director of the physics laboratory, University of Toronto, Toronto; A. S. Mackenzie, Ph.D., D.C.L., president Dalhousie University, Halifax, N.S.; W. C. Murray, M.A., LL.D., president University of Saskatchewan, Saskatoon, Saskatchewan; R. A. Ross, Esq., E.E. (Tor.), M. Can. Soc. C.E., consulting engineer, 80 St. Francois Xavier street, Montreal; R. F. Ruttan, M.A., M.D., Sc.D., professor of chemistry and director of the chemical laboratories, McGill University, Montreal; Arthur Surveyer, B.A.Sc., M. Can. Soc. C.E., consulting en-

gineer, 274 Beaver Hall Hill, Montreal; secretary, J. B. Challies, CE. (Tor.), M. Can. Soc. C.E., superintendent Dominion Water-Power Branch, Ottawa.

Mr. PUGSLEY: By whom were these gentlemen appointed?

Sir GEORGE FOSTER: The Governor in Council. I may say that Dr. McLennan, professor of physics in Toronto, is now in England, and the advisory council have appointed him to represent them on the advisory council there. The advantage which we get, and which they get from that is this: he meets with them and they have information of all that we are doing here along this line, and he gets information from them as to how they are carrying on their work on the other side. It is an interchange of information, of ideas, and of suggestions.

Mr. PUGSLEY: My hon. friend, instead of answering my question, gave a long list of handles to Dr. MacCallum. One was that he was a doctor of philosophy, and the other that he was a doctor of science, but in what line of work has he gained distinction? Is it in the line of applied science?

Sir THOMAS WHITE: He is one of the most distinguished scientific men in Canada. For many years he has been professor of pathology in the University of Toronto. He is a noted physiologist, and also a chemist of high standing. I do not know any better qualified man, from the standpoint of general scientific knowledge, in Canada than Professor MacCallum.

Mr. PUGSLEY: I am glad to learn that he has gained distinction in the work of chemistry, because I would suppose that is the most important work that this bureau would have to perform. I recognize the very great importance of it, and all that I was anxious to know was that the work was to be undertaken on practical lines.

Mr. MARCIL: Has the hon. minister mentioned any representative of Laval University on that board?

Sir GEORGE FOSTER: I have not. In preparing the list for the advisory council the desire was to obtain men from the universities, and to make the very best selection of scientific men along practical lines that could possibly be made, and, of course, it must be along scientific lines. Inquiry was made in reference to Laval University, I may inform my hon. friend,