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 - MEN'S WOOL MITTS Only 39c.
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RECONSTRUCTION IN CANADA CAUSING CONSIDERATION

Dr. A. B. McCallum Reviews the Situation in Canada in Regard to the Application of Science to Industry, and Urges Active Work Speedily on Part of Canadians.

The following interesting and illuminative summary of the work of the Canadian Council for Scientific and Industrial Research appears in The Toronto Globe's annual financial survey issued on January 2nd. Dr. A. B. McCallum, the administrative chairman of the Council, reviews the situation in Canada in regard to the application of science to industry as follows:

"Reconstruction and development in Canada in the new era of international trading for supremacy in the arts of peace means the Canadian Honorary Advisory Council for Scientific and Industrial Research much in so far as 'development' is concerned but little research or 'reconstruction.' Re-construction postulates the building up again of what existed before; and up to the outbreak of war there was constructed in Canada no national organization for research work. The glowing path of Canada's opportunity for industrial development runs wide and far, but the Council's research path has to be blazed through a comparatively unexplored forest. It is almost entirely new ground to be covered.

Where Germany and, though perhaps in lesser degree, the United States have built before the war great organizations for industrial research founded on wide-versed realization of the commercial value and necessity of applying science to industry, in Canada, in Great Britain, state encouragement and industrial enterprise had, until the war started, been content in the main with a laissez-faire policy. Germany had her trained technologists and research workers by the thousands in the organized application of science to industry, was winning her trade victories in every foreign mart.

In the United States, which early took a leaf from Germany's book, great universities like Harvard, Yale, Chicago, Columbia and Cornell had staffs and equipments in pure and applied science, which kept pace with the most kept pace with the demand from great American industrial establishments for trained scientists. Chemists, metallurgists, etc., to solve industrial research problems. The annual budget of the Massachusetts Institute of Technology, for instance, exceeded before the war, and still exceeds, the total of the annual expenditures of all the Faculties of Applied Science in Canada. There are some two thousand research laboratories in connection with large industrial concerns in the United States. Not two hundred than fifty individual firms expend annually sums ranging from \$25,000 to \$500,000 on research.

In Canada a score of years less than twenty students have received the advanced Ph. D. degree in science from the University of Toronto, and fewer still from McGill. Not two hundred of Canadian firms have research laboratories, and only about ten per cent have routine laboratories, chiefly for the testing of materials.

Canadian industries were to seek for a supply of trained technical men capable of applying the advanced scientific knowledge to industrial processes sufficient to meet even their most ordinary needs, the number of adequately trained men in Canada would not be sufficient to satisfy five per cent of the demand.

That, briefly put, is the situation with regard to the scientific basis for equipment and men for research work. That is the situation which has confronted the Research Council since its creation in December, 1916. And that has been, and is, the crux of all the problems of scientific and industrial research in Canada, handicapping the carrying out of the large research program planned for the past year and for the coming year, jeopardizing Canada's position in the international rivalry for expert trade and demanding prompt remedy if the full measure of our opportunity is to be grasped.

In resources of scientific capital and materials, in all the natural advantages for industrial supremacy we are in an enviable position as compared with our trade competitors. But in regard to the vital question of scientific organization of our industrial processes of finding new uses and hence, new markets for the raw materials and the by-products of manufacture, and of keeping pace with the advances made in other countries through research, we have as yet hardly touched the fringe of opportunity.

Confronted with this situation and with a slowly awakening public and individual realization of its portent, the main task of the Council this past year has been, while carrying on the immediate needs of research work with the means at hand, to pave the way for meeting adequately the urgent needs of the future. The goal has been a supply of trained men for research work, adequate equipment and facilities for research and the enlistment of industrial organizations in cooperative effort to solve common problems, the solution of which lies in the application of science to industry. The great forward step taken has been to promote the establishment of a Central Research Institute at Ottawa, combining the functions of the Bureau of Standards at Washington

COMMON COUNCIL SPECIAL MEETING

Commissioners Thornton and Jones Sworn in Yesterday Afternoon—Commissioner McLellan Makes Address and Wishes New City Fathers Success.

At the special meeting of the Common Council held yesterday afternoon the two new commissioners, Messrs. Thornton and Jones, were sworn into office and assumed their duties. Mr. Thornton as Commissioner of Public Safety, and Mr. Jones as Commissioner of Water and Sewerage. Retiring Commissioner McLellan extended his congratulations to the new members of the council and expressed the hope that all the commissioners might enjoy a happy and prosperous New Year. A great assemblage of the city fathers was present at the ceremony. The new men were read by the Mayor on the advice of the city solicitor. It was disregarded, and they were duly sworn in. Commissioner Bullock was given authority to amend the Sunday schedule of the ferry boat and Commissioner Fisher was authorized to call for tenders for two new stone crushers.

Mayor Hayes presided, and there were present Commissioners McLellan, Bullock and Fisher.

Before the minutes were read, Commissioner McLellan asked permission to make a few remarks in the way of a farewell address, and this was granted.

He said it had been customary for one vacating his seat at the board to make a brief statement, and to be spoken for by his successor in office as a continuance of the courtesy and kind treatment extended toward himself. During his six and a half years at the council table he had seen two mayors and nine commissioners, and while there had been at times differences of opinion, these had been sincere, and he was satisfied all had been trying to serve the best interests of the public.

The occasion which had prompted himself for the retirement of a fellow commissioner and himself had involved a matter of principle, and one which required a decision by the electors. This decision had been given, and a majority of the electors had decided he was in the wrong, starting, say, with Toronto, McGill and Ecole Polytechnique in Montreal, lies the hope of the world's strenuous and pitiless trade warfare the nation's leaders in scientific and industrial research.

As a result of the Council's initiative, Governmental action was taken in June last to secure federal cooperation with the governments of Saskatchewan and Manitoba in establishing a demonstration plant in the Souris coal areas of southern Saskatchewan to prove to the commercial feasibility of carbonizing and briquetting the western lignites or heating, in domestic furnaces. This year will see a plant established with an output of \$40,000 and an annual output of 20,000 tons of coal equal to the Pennsylvania anthracite and marketed in Regina or Moosejaw at, at least, ten dollars per ton less than the imported anthracite is now costing.

The initial plant, about 100,000 square feet in area, will be situated at Regina or Moosejaw at, at least, ten dollars per ton less than the imported anthracite is now costing.

On motion of Commissioner Fisher the report was adopted and Messrs. Thornton and Jones declared elected. It was then moved by Commissioner Fisher that the newly-elected members swear in. Before this was seconded, Mayor Hayes read a letter which he had received from J. H. Pritchard protesting against the swearing in of Messrs. Thornton and Jones, on the ground that the common clerk had not certified the recall petitions as sufficient; that the ballot was erroneous; that when the official count of the return is declared by the common clerk the incumbent by receiving a minority of votes is thereby removed from office, and the council would have a quorum; that it is impossible to have two recall elections at the same time under the Act.

He reported having taken the matter up with the city solicitor, and the latter had advised that the new men be sworn in.

On motion of Commissioner Fisher the communication was received and read.

Common Clerk Wardrop then swore into office the new commissioners. After the swearing in process had been completed, the several commissioners addressed the council.

Commissioner Thornton said he appreciated the kind words of his friend Mr. McLellan and the kindly spirit in which he had accepted the verdict of the electors. He was proud of the trust reposed in him by the electors of the city.

Commissioner Jones said he would endeavor to serve the best interests of the community. He appreciated the kindly expression of good will from the retiring commissioner, Mr. McLellan. In carrying out the duties of his office he would always have in mind the people who had elected him.

Commissioner Bullock endorsed what had been said by the previous speakers.

Mayor Hayes said he was pleased with the friendly and tolerant spirit shown in the remarks of the retiring and incoming commissioners.

Commissioner Thornton was then elected to fill the office vacated by Commissioner McLellan, and Commissioner Jones that vacated by Commissioner Bullock.

An application for W. H. Finlay, of Fredericton, for the position of Chief of Police, was referred to the

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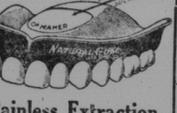
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