

HONORARY ADVISORY COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH.

In the Canada Year Book for 1918, pp. 581 to 584, a general account was given of the work for that year of the Advisory Research Council. During the year 1919 two changes have taken place in the membership of the Council. Tancredé Bienvenu, Vice-president and General Manager of the Banque Provinciale du Canada, Montreal, and S. F. Kirkpatrick, M.E.I.C., Professor of Metallurgy, Queen's University, Kingston, have resigned. To fill these vacancies Sir George Garneau, Kt., B.A.Sc., 2 Cook Street, Quebec, P.Q., and W. L. Goodwin, B.Sc., D.Sc., F.R.S.C., Dean of the Faculty of Science, Queen's University, Kingston, were appointed, and they with the other members whose names were given in the Canada Year Book for 1918, form the Honorary Advisory Council for Scientific and Industrial Research as at present constituted.

Studentships and Fellowships.—During the past year the supply of students for the twenty-five studentships and fellowships instituted by the Research Council was even less than during the previous year, only three fellowships and five studentships being awarded. Three of these were awarded to students who were released from the military forces of Canada, and accordingly began their studentships after January 1, 1919. Now that the war has ended, it is expected that the number of qualified applicants will very greatly increase and that they in turn will help to relieve the scarcity of scientific researchers.

Bursaries.—The demonstration on the part of any candidate for a studentship of capacity for research implies a year or so in post graduate study. As a rule few of those who have just graduated are in a position to afford the additional expense involved and consequently they may be unable to qualify for studentships. The Council, therefore, decided to institute bursaries, ten of which will be awarded during 1919-20 to graduates whose attainments in science justify such an award. The value of a Bursary is \$500 and it is tenable only for a year, but if the holder, during that time, demonstrates the possession of a capacity for research, he may be awarded a studentship for the following year.

Assisted Researches.—Under certain conditions the Council may grant financial assistance for research into industrial processes and methods. During the fiscal year 1918-19 twelve such grants were awarded, ranging in amount from \$200 to \$7,000. One of these grants was made to assist in an investigation of the reduction of low grade iron ores. There is but a small supply of high grade iron ore in the Dominion, 96 p.c. of all the iron ore smelted in Canada being imported. The total quantity of available high grade iron ore on the globe is diminishing rapidly, and it will eventually be necessary to turn to iron ore of lower grades for the production of iron and steel. If the smelting could be effected on an industrial scale at a reduction in the cost, it would offset the disadvantage at present attending the utilization of this lower grade iron ore which would make available