

of eight scientists from many disciplines and up to 16 visiting researchers. The operation of the laboratory is in charge of a manager working under the direction of the Northern Co-ordination and Research Centre of the Department.

Subsection 2.—Provincial Organizations

Five of Canada's provincial governments (Nova Scotia, New Brunswick, Manitoba, Saskatchewan and Alberta) have established research councils or foundations and two others (Ontario and British Columbia) have assisted financially in the setting up of such organizations. Quebec has also announced its intention of establishing a provincial research council and industrial research centre in the near future. Most provincial governments have university laboratories to consult, particularly about local industrial and agricultural problems, and many individual departments have facilities for research in their particular fields of endeavour or assist research through the provision of financial aid to students working in those and other scientific fields. Agriculture is particularly well covered because of its importance as an export industry but the provinces are also intensely interested in their other natural resources. Their efforts in the fields of agriculture, forestry, mining and fisheries are outlined in the Chapters dealing with those subjects (see Index).

Research and development expenditures by the seven provincial councils or foundations and the sources of funds for such purposes are shown in Subsection 4, Tables 5 and 6, p. 430.

Nova Scotia Research Foundation.—This body was created by the Government of Nova Scotia in 1946 to give its people scientific and technical assistance in finding new and better ways to utilize the resources of the forest, the sea, the farm, the mine and the process industries. To this end it seeks to correlate and further scientific work on local problems and available resources. Within two years a new \$1,250,000 laboratory building, to be financed by an Atlantic Development Board grant, will occupy a commanding 10-acre site in Dartmouth, N.S., and will house a staff of about 100, including 70 scientists and technicians. An additional \$500,000 has been provided for construction of three smaller laboratories for ceramics, timber-testing and water-testing.

The Foundation assists universities, colleges, research groups, industries, provincial and federal departments and individuals by loans of equipment, grants, scholarships, laboratory and summer assistants, library, cartographic, photogrammetric and translation services, and technical information. It has supported or collaborated in work on breeding new varieties of plants and root nodule bacteria; on antibiotics, poultry, blueberry culture, coal-burning equipment, the constitution and gasification of coal, the non-destructive testing of mine equipment, the utilization of anhydrite, diatomite, fish waste, gypsum, seaweed, slag, slab wood and fertilizing materials. It has conducted geophysical, geological, air pollution and seaweed surveys as well as forest aphid, forest ecology and genetic studies and has assisted studies on the nutrient cycles of lakes, on X-ray crystallography, on pressures in underground strata and on crop damage by predators. Its Geophysical Division is equipped to undertake all types of magnetometric, gravimetric, resistivity, seismic and electromagnetic explorations, and so assess the possibilities of the existence of oil, gas, potash and other economic mineral deposits in Nova Scotia and in the surrounding sea. The Technical Services Division provides industries in the province with a free field service on technical information and industrial engineering. Technical assistance is also provided on corrosion problems, equipment and process trouble-shooting and on new product development. The Operational Research Division prepares studies on provincial resource utilization and undertakes industrial studies at the request of individual firms.

A *Research Foundation Bulletin* is issued from time to time to keep industry advised of Foundation activities and also of important discoveries in science and technology. The *Research Record* provides a descriptive account of past research projects.