

*Fuel Research Laboratory.*—At the Fuel Research Laboratory, Ottawa, investigations are carried out on solid, liquid, and gaseous fuels with the purpose of promoting more extensive and more efficient use of the fuel resources of the Dominion. Research and investigative work is being done on the classification and physical and chemical properties of coals, coal washing and beneficiation, carbonization and briquetting; on petroleum, bitumen, natural gas, and on the hydrogenation of various fuels for the production of motor fuel and other petroleum products. Equipment permits large- and small-scale coking tests on coals as well as the determination of the relative heating values of various fuels.

*Ceramic and Industrial Minerals Laboratory.*—In the Ceramic and Industrial Minerals Laboratory, Ottawa, facilities are provided for investigative research and tests on the non-metallic minerals, principally those used in the building, chemical and metallurgical, and ceramic industries. The investigations deal with the winning, marketing, uses, crushing, and grinding of minerals, and with problems of processing in the manufacture of mineral products, particularly of those materials used in the ceramic industries. In the latter case, the work is directed chiefly to improving the processing in the clay-working industries and in assisting operators to overcome their technical difficulties.

*National Museum.*—The National Museum, singly or in co-operation with other governmental departments, universities, and private organizations, conducts research in the natural sciences, chiefly anthropology—to elucidate the history of the Canadian aborigines—and biology (mammals, birds, insects, aquatic and other animals, botany, forestry) for educational purposes and for the application of these sciences to industry and conservation.

*Bureau of Geology and Topography.*—Through the Bureau of Geology and Topography, geological, topographical, and related work is undertaken to further the knowledge of the geology and geography of Canada.

*Geological Survey.*—The Geological Survey makes studies and investigations in geology, mineralogy, and palæontology in order to obtain systematic information regarding the geology of Canada and to aid in the discovery and development of her mineral resources.

*Topographical Survey.*—The Topographical Survey, in the course of its regular work, conducts research on methods, materials, and instruments for preparing maps both from aerial photographs and ground surveys. The co-operation of the National Research Council is obtained in certain phases of this work that involve actual constructions.

*The Dominion Forest Service.*—The Dominion Forest Service operates five forest experiment stations with a total area of 238 square miles. Here investigations of the underlying principles governing the growth of forests can be made and practical methods of management are tested. The first of these stations was established at Petawawa, Ont., in 1918. The Forest Products Laboratories were organized in 1913 with the object of keeping Canada abreast of other countries in scientific developments in wood utilization.

*Forest Economics.*—Latest available information regarding the forest resources of the Dominion is collected and compiled by this Division. Data are secured both from special inventory investigations and from reports supplied by the Provincial Governments. The annual depletion in the forest due to cutting, fire,