

mining districts and inspection of individual deposits or properties. The published reports on these investigations are available on request. When weather permits, about 40 crews, headed by geologists or mining engineers, work in different regions of the province. In five mining areas, offices managed by resident geologists are maintained where geological information obtained from mining explorations is gathered and compiled and from which free copies of such documentation may be obtained by the public. Furthermore, four other crews are engaged in hydrogeological surveying, mainly for the purpose of assisting municipalities in resolving their water supply problems.

Departmental inspectors supervise the observance of all regulations concerning the safety of workmen in operating mines. Three Mobile Mine Rescue Stations are operated and a mine rescue training program conducted.

Five-week courses for the training of prospectors are conducted by Laval and Montreal Universities, and lectures are given at different localities throughout the province. University scholarships are granted each year to deserving undergraduate and postgraduate students in mining, geology and metallurgy, thus contributing to the training of qualified engineers for the benefit of the mining industry.

**Ontario.**—The Ontario Department of Mines renders a multiplicity of services of direct assistance to the mining industry within the province, as briefly outlined below.

*Mining Lands Branch.*—This Branch handles all matters dealing with the recording of mining claims, assessment work, etc., and the preparation of title to mining lands. As a service to the mining public, individual township maps are prepared and kept up to date showing lands open for staking and recorded and patented claims therein. District Mining Recorders maintain offices at strategic locations throughout the province.

*Geological Branch.*—A continuing program of geological mapping and investigation is carried out by the geological staff of the Department. Detailed reports and geological maps of the areas studied are made available to the public. In many of the active areas of the province resident geologists are engaged to gather and make available to the public information concerning geological conditions, exploration and development within their respective districts. A geologist specializing in industrial minerals investigates methods of treatment and recovery of such minerals and compiles data on the uses, specifications and markets for such products. Collection and dissemination of information on ground-water resources is also a function of the Geological Branch. During the winter months, courses of instruction for prospectors are held in various centres throughout the province.

*Laboratories Branch.*—The Provincial Assay Office at Toronto carries out wet analyses and assays of metal and rock constituents on a custom fee basis and gives the same service free of charge to holders of valid assay coupons issued for the performance of assessment work on mining claims. The Timiskaming Testing Laboratories situated at Cobalt, in addition to performing fire assays and chemical analyses, operate a bulk sampling plant mainly to assist the producers of the area in the marketing of the cobalt-silver ores. A Cable Testing Laboratory, wherein all hoisting ropes in use at the mines are periodically tested, is operated under the supervision of the Inspection Branch.

*Inspection Branch.*—The main function of this Branch is the regular examination of all operating mines, quarries, sand and gravel pits and certain metallurgical works with a view to ensuring proper conditions of health and safety to the men employed. District offices to serve the local areas are maintained in the major mining centres of the province. Mine rescue stations in the principal mining sections are operated under the supervision of the Branch.