

## GEOLOGICAL SURVEY OF CANADA

PROPOSED DISTRIBUTION OF FIELD PARTIES, SEASON 1907.  
YUKON:

*Messrs. McConnel and Maclaren.*—An examination of the mineral areas of the southern portion of the territory, including the copper deposits of Whitehorse and the rich silver deposits of Conrad.

*Mr. Cairnes.*—The mapping and investigation of the coal areas along the Yukon River, between Whitehorse and Tantalus.

*Mr. Keele.*—An examination of the upper waters of the Pelly and Hoole and Kiza Rivers, extending over two seasons, the return journey to be made across the mountains, and thence to Dawson by the Mackenzie, Rat and Porcupine River route.

## BRITISH COLUMBIA:

*Mr. J. A. Bancroft.*—Continue the examination of the rocks and minerals northward from Texada Island, giving particular attention to the copper and iron deposits.

*Mr. Leach.*—Continuation of the mapping and investigation of the coal and copper areas in the vicinity of the Bulkley Valley, Skeena River.

*Mr. Camsell.*—Continuation of the mapping and geological investigation of the Similkameen valley.

*Messrs. Brock and Boyd.*—Completion (in two or three weeks) of the Rossland, or continuation of the mapping and geological investigation of the Lardeau camp. If possible, investigations in the Slocan district.

## ALBERTA:

*Mr. Malloch.*—Continuation of the mapping of the Cascade, Palliser and Costigan coal fields in the Rocky Mountains, between the Red Deer and Clearwater Rivers.

## SASKATCHEWAN:

*Mr. McInnes.*—Examination of the country lying to the north of the Canadian Northern Railway, and extending to the north of the Saskatchewan River to 50° N. lat. The east and west boundaries being lines drawn through Prince Albert and The Pas.

## ONTARIO:

*Mr. Collins.*—Continuation of the study of the geology and economic minerals along the route of the N. T. Ry., in the western part of the Province.

*Mr. W. A. Johnston.*—Continuation of the mapping and geology of the Simcoe sheet.

## QUEBEC:

*Mr. Morley Wilson.*—Continuation of the mapping and geological investigation in the western portion of Pontiac County east of Lake Temiskaming.

*Mr. W. J. Wilson.*—Continuation of the mapping and geological investigation of the belt along the N. T. Ry., eastward from the crossing of Bell River.

*Mr. O'Sullivan.*—Mapping and geological investigation of the belt along the N. T. Ry., from La Tuque westward.

*Mr. Dresser.*—Study of the serpentines of the Eastern Townships, with special reference to the mode of occurrence in them of the valuable deposits of chrome-iron ore, asbestos and copper.

## NEW BRUNSWICK:

*Dr. Ellis.*—Continuation of the revision of the geology of Southern New Brunswick.

*Mr. Robert.*—Continuation of the mapping and geology in the environments of the City of St. John.

## NOVA SCOTIA:

*Mr. Fletcher.*—Continuation of the mapping and geological investigation in Kings, Annapolis, Digby and Cumberland Counties.

*Messrs. Faribault and O'Farrell.*—Continuation of the mapping and geology of the gold-bearing rocks in Lunenburg and Queen's Counties.

*Dr. Young.*—Investigation of the granites and other irruptive rocks, with special reference to the occurrence of tin and other valuable minerals.

## SPECIAL WORK.

*Mr. Ingall.*—Investigation of the copper resources of Eastern Canada.

*Mr. Denis.*—Superintendence of the selection of samples of coal at the mines for the practical coal tests. Study of each mining centre for information to accompany the report on the tests.

*Prof. Macoun.*—Collection of specimens illustrating the forest wealth of Canada for the new Victoria Museum.

*Messrs. Willimott and McKinnon.*—Collection of mineral specimens for High School collections and for the Victoria Museum.

*Mr. R. A. Johnston.*—Special duty of rare minerals in various localities.

*Dr. Ami.*—Study and collection of fossils in Nova Scotia and New Brunswick to determine geological horizons.

## BOOK REVIEWS

THE METALLURGY OF THE COMMON METALS—gold, silver, iron, copper, lead and zinc—by Leonard S. Austin, Professor of Metallurgy and Ore-dressing, Michigan School of Mines, first edition. Published by *The Mining and Scientific Press*, San Francisco. Price \$4, postage, 16 cents; 407 pages, 6 inches by 9 1-4 inches.

This volume outlines, in a manner at once comprehensive and connected, the metallurgy of the metals mentioned in the title. It is divided into ten sections. Part I. is general. The definition and classification of ores is followed by brief, singularly lucid paragraphs on the metallurgical treatment of ores, combustion, fuels, refractory materials, sampling, preparatory treatment of ore, and thermo-chemistry as applied to metallurgy. This whole section displays a wide general acquaintance with the basic principles of metallurgy. None but a man of ripe experience could crystallize into words definitions so succinct and so informing.

Part II. deals with the general principles of roasting and with certain specific applications of those principles. To the chemistry of roasting four pages are devoted. Heap and stall roasting of lump ore are taken up, and the mechanical roasting of ores in a pulverized condition is very carefully, though of course briefly, developed. One meritorious feature of this section and, indeed, of every section of the book, is the care taken in specifying figures of capacity and costs.

Parts III. and IV. cover the metallurgy of gold and silver. Instructive diagrams of the stamp mill accompany these sections. The pages describing the cyaniding of gold and silver ores have been revised and modified by Mr. F. L. Bosqui, a most eminent authority on the