

## PRODUCTION OF LEAD.

Official returns of the output of metallic lead in British Columbia for the fiscal year ended June 30, last, give a total of 23,754 tons. Of this quantity 18,494 tons were the product of ores and concentrates smelted in British Columbia, while 5,260 tons were contained in shipments to American and European plants. More than half of last year's lead product was from the Consolidated Mining and Smelting Company's St. Eugene mine, the output of which was 14,719 tons. The Sullivan group mine, also in East Kootenay, produced a considerable portion of the remainder of the total output. The totals of four consecutive years were as under:

Fiscal Year.	Tons of Metallic Lead.
1903-4 .....	12,163
1904-5 .....	27,838
1905-6 .....	26,111
1906-7 .....	23,754

## BOOKS, ETC., RECEIVED.

- Brooks, E. W.*—A report on the geology, mineralogy and metallurgy of the London-Arizona copper mine, with map and cross sections from the U. S. Geological Survey, showing its genetic relations to other great copper deposits of laccolitic origin.
- Columbia University, New York City.*—The "School of Mines Quarterly," Vol. XXVIII., No. 3.
- Guarini, Professor.*—"The Water Powers of Peru—their Development and Possible Applications." Abstract from the *Engineering Magazine* of an article (by Mr. Guarini, professor of physical and electrical science at the "Escuela de Artes y Oficios" of Lima, Peru), the purpose of which is to describe the amounts and relative locations of the water-powers of southern Peru, the feasibility of their development, demand for power, possible application of electricity, etc.
- California State Mining Bureau.*—An "Act Establishing a Uniform System of Mine Bell Signals." Lewis E. Aubury, state mineralogist, Ferry Building, San Francisco. Price, cardboard 5 cents, paper 2 cents, postage 2 cents.
- Dundee Free Libraries, Scotland.*—Report of the Free Library Committee to the Town Council of Dundee for the year 1906. Pages, 44; illustrated.
- Cobalt Mining Information Bureau, Limited.*—Morton's "Hand Book of the Cobalt District"; map of Bucke Township, including section of Lorrain Township; map of Coleman Township. All published by the Cobalt Mining Information Bureau, Limited, Toronto, Ontario.
- Poole, H. S.*—"Features of the Continental Shelf off Nova Scotia." By Dr. H. S. Poole, Halifax, N.S. From the "Transactions of the Royal Society of Canada," Second Series, 1906-1907.
- Zentrale für Bergwesen, Frankfurt am Main.*—Report for 1906 of the Central Mining Institute, Frankfurt-on-the-Main, Germany.
- American Institute of Mining Engineers.*—Bi-Monthly Bulletin of the A.I.M.E., for July, 1907. Contents: I. Institute Announcements; II. Technical Papers.

## BOOKS REVIEWED.

*Gold Dredging*, by Capt. C. C. Longridge, mining and consulting engineer. 313 pages, 6x9½ in., illustrated. Published by *The Mining Journal*, London, England. Second edition; cloth, £1 net.

This volume, "Gold Dredging and Mechanical Excavators," is a second and revised and greatly enlarged edition of Captain Longridge's previously published work on "Gold Dredging." Much additional matter has been incorporated in the new edition, and the arrangement of the work has been considerably altered. Its 34 chapters cover a wide field, and deal successively with the various kinds of dredges in use,

horse-power required in dredging, separation of the material dredged, gold recovery appliances, quantity of water required for washing the gold-bearing gravel, disposal of tailings, working costs, capacity and costs of dredges, difficulties of dredging, selecting and prospecting dredging ground, dredging leases, power excavators, fields for gold dredging, and the author's conclusions regarding this increasingly important industry.

It is claimed for this book that it retains its character as a practical treatise and, while omitting theories and untried inventions, records as faithfully and impartially as possible known gold-dredging practice and well-tested methods. It shows that of late there has been general development in dredges and their fields of operation, with the result that the facts have been brought into greater prominence that ground of abnormally low gold value can now be profitably treated, and that an enormous area of such ground remains to be exploited. Further, failures have been fewer and wherever dredging has been undertaken with prudence and skill there has been success in greater degree. In dredge building there has been all-round improvement in details of hull and machinery; design and construction have been bettered, and strength and durability increased.

Among the known dredging fields noticed are those of British Columbia and Yukon Territory. Information relating to the former has been extracted from articles published in the *MINING RECORD* and other journals, and to the latter from the "Interim Report of the Commissioner of the Yukon Territory" made by Commissioner McInnes on December 15, 1906. While the general results of dredging in British Columbia since the publication of the articles quoted from have been disappointing, the experience in the Yukon has been encouraging enough to induce the bigger operators to considerably extend for gold on a much larger scale than heretofore seen in the Canadian Northwest.

Captain Longridge's efforts to bring his book up to date will be appreciated by many interested in gold dredging. The making conveniently accessible of so much information on this very important subject should have the effect of leading to a ready sale of this comprehensive work, which in addition to the large fund of information it contains, possesses the merit of having been well printed, excellently illustrated, neatly bound, and generally got up in an attractive style.

*Examination Questions for Certificates of Competency in Mining*, by the editors of *Mines and Minerals*, Scranton, Pennsylvania, U.S.A. 532 pages, 6x8¾ in., illustrated. Published by the International Textbook Company, Scranton, Pa. Cloth, \$3.50.

This book contains examination questions for competency as mine inspector, mine manager, mine foreman, fire-boss, hoisting engineer, etc., as given by the state examining boards, together with answers prepared and edited by the editors of *Mines and Minerals*, a journal devoted to articles on the practical operation and principles involved in the operation of all kinds of mines and metallurgical plants.

The questions and answers are mainly those that have already appeared in the *Colliery Engineer and Metal Miner*, or in *Mines and Minerals*; the answers as originally given have been edited and rearranged so that there may be as little duplication as possible. Certain questions have been added from a file of unpublished examination questions. It is thought, therefore, that this compilation faithfully and fully represents the range of subjects covered at the present time by examinations for certificated mining positions in the United States and some of the provinces of Canada.

This book is intended mainly to assist those preparing themselves for examinations for certificated positions; not as a textbook, but merely as an aid in connection with textbooks on mining. In it none of the general principles or theories of mining are given other than those asked for by specific questions.

The matter contained in the book is divided into 28 chapters, and a table of contents shows the subdivisions under the various heads. In addition, an index of 16 pages greatly facilitates reference.