

ness which this season have existed over extensive areas upon which we have stimulated settlement in our northwest. Correspondingly, I wish to suggest that in the development of Canada's fuel resources for the need and general benefit of the people there certainly is required more wisdom than has hitherto been manifested in connection with this problem, and this wisdom, I believe, concurrently with our own efforts and in fitting humility, must be sought and received from the One to whom, as the motto just cited states, belongs "the earth and the fulness thereof."

Gentlemen, you operate in a great and unique field which comprises the effecting of economies by subjecting raw coal to such manufacturing processes as will save the valua-

ble by-products and at the same time produce, even from inferior grades of coal, a satisfactory and clean-burning fuel. It is within your province also to aid in effecting a proper co-ordination of the uses of electricity, coal and gas, according to their respective spheres of most efficient use. Those oftentimes will result in a greater utilization of gas. Those in the forefront of the gas-producing industries are justified in looking forward to the greatly increased use of this commodity, and to the fuller recovery of by-products. Your contribution to the solution of the national fuel problem of Canada is invaluable. Your field has an ever-extending horizon. I trust you will all find it a truly profitable one for the enthusiastic exercise of your talents.

## RECENT PUBLICATIONS

**GRIEVE GRATE.**—Twenty-page booklet issued by the Combustion Engineering Corporation, New York, illustrating Grieve grates for hand-fired boilers.

**ROAD MATERIALS NEAR REGINA, SASK.**—By L. Reinecke, published as Memoir 107 of the Geological Survey, Ottawa; 26 pages, index, map and cover, 6½ by 9½ ins.

**CIVIL SERVICE COMMISSION.**—Tenth annual report of the Civil Service Commission of Canada for the year ended August 31st, 1918; 36 pages and cover, 6½ by 9¾ ins.

**MACKENZIE RIVER BASIN.**—Report written by Charles Camsell and Wyatt Malcolm and published by the Geological Survey, Ottawa; 154 pages, map and cover, 6½ by 9½ ins.

**CEC TUBE SCRAPING DEVICE.**—Twelve-page bulletin issued by the Combustion Engineering Corporation, New York, illustrating and describing boiler-tube scraping-device.

**GEOLOGY OF THE DISTURBED BELT OF SOUTHWESTERN ALBERTA.**—Memoir 112 of the Geological Survey, Ottawa, by J. S. Stewart; 66 pages, index, maps and cover; 6½ by 9¾ ins.; illustrated.

**D. L. S. ANNUAL REPORT.**—Annual report of the 12th annual meeting of the Association of Dominion Land Surveyors, held last January in Ottawa; 182 pages and cover, 6 by 8½ ins., illustrated.

**CHIMNEYS.**—Loose-leaf catalogue published by the Rust Engineering Co., Pittsburgh, Pa., illustrating radial brick chimneys, tapered reinforced concrete chimneys, linings for steel stacks, flues, etc.

**INVAR BASE LINE TAPES.**—Publication No. 3 of the Geological Survey, Ottawa. Determination of lengths of Invar base line tapes from standard nickel bar No. 10,239; 26 pages and cover; 6½ by 9½ ins.

**PROTECTING NEW YORK'S WATER SUPPLY.**—Booklet published by Wallace & Tiernan Co., Inc., of New York, 24 pages and cover, 7 by 10 ins., illustrating and describing liquid chlorine plant installed by New York City.

**HAZELTON DISTRICT, B.C.**—Memoir 110, Geological Survey, Ottawa. Preliminary report on the economic geology of the Hazelton District, B.C., by J. J. O'Neil; 48 pages, index maps and cover; 6½ by 9¾ ins.; illustrated.

**ECONOMIC USE OF COAL FOR STEAM RAISING AND HOUSE HEATING.**—By John Blizzard, technical engineer of fuel and fuel testing devices, Mines Branch, Department of Mines, Ottawa; 22 pages and cover, 6½ by 9¾ ins.

**O. L. S. ANNUAL REPORT.**—Annual report of the Association of Ontario Land Surveyors and proceedings of its 27th annual meeting; 192 pages and cover; 6 by 9 ins.; contains a list of registered Ontario land surveyors.

**CLINTON FABRIC.**—Booklet, 16 pages and paper cover, 6 by 9 ins., issued by the Pedlar People, Ltd., Oshawa, Ont., showing photographs of concrete pavements and sewers built with Clinton wire fabric. Printed in French and English.

**MINING OPERATIONS IN QUEBEC.**—Report on mining operations in the Province of Quebec for the year 1918, issued by the Department of Colonization, Mines and Fish-

eries, Quebec, Que.; 156 pages, index, maps and cover; 6¾ by 9½ ins.

**POTASH RECOVERY AT CEMENT PLANTS.**—By Dr. Alfred W. G. Wilson, special investigator for the War Trade Board. Published as bulletin No. 29 of the Mines Branch, Department of Mines, Ottawa; 40 pages and cover, 6½ by 9½ ins.; illustrated.

**GLOSSARY OF AERONAUTICAL TERMS.**—Prepared by the Technical Terms Committee of the Royal Aeronautical Society; edited for the council of the society by W. B. Faraday, secretary of the society; 106 pages and cover, 7 by 9½ ins.; price, 60c.

**DEPARTMENT OF LABOR.**—Report of the Department of Labor, Ottawa, for the fiscal year ended March 31st, 1918; 46 pages and cover, 6½ by 9¾ ins.; contains the reports of the director of coal operations and the registrar of boards of conciliation and investigation.

**SUIT FOR INFRINGEMENT.**—The Portable Machinery Co., of Passaic, N.J., manufacturers of the Scoop conveyor, have issued a circular claiming that another concern has marketed an imitation of the Scoop conveyor, and stating that a suit is now pending for infringement of rights.

**MAGANESE BRONZE CASTINGS.**—Catalogue issued by the American Manganese Bronze Co., of Holmesburg, Philadelphia, Pa.; 3¾ by 9 ins.; 24 pages; illustrated. Special reference is made to manganese bronze valve stems and manganese bronze runners for hydraulic turbines.

**ELECTRICAL PRECIPITATION.**—Circular 7,375 issued by the Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa., describing the recovery of valuable material from smokes and gases; 24 pages and cover; 8½ by 11 ins., printed in colors on coated paper and well illustrated.

**MINERAL PRODUCTION OF CANADA.**—Annual report for the calendar year 1917, of the mineral production of Canada, by John McLeish, head of the division of mineral resources and statistics and acting-director of the Mines Branch, Department of Mines, Ottawa; 258 pages and cover, 6½ by 9½ ins.

**CONSERVATION IN 1918.**—Address delivered February, 1919, at the annual meeting of the Commission of Conservation by James White, assistant to the chairman of the Commission of Conservation of Canada; reprinted from the tenth annual report of the Commission; 88 pages and cover; 6½ by 9½ ins.

**STANDARD APRON CONVEYERS.**—Catalogue No. 258 issued by the Jeffrey Manufacturing Co., Columbus, Ohio, describing all standard apron conveyers both of steel and wood flights. This catalogue contains 75 pages and gives general dimensions and other important data of interest to prospective purchasers.

**PERFORMANCE OF COLLIERY PLANTS.**—Reprint of article on the performance of colliery steam boiler plants and the saving to be obtained by their reorganization, by D. Brownlie, published in "Engineering," London, Eng.; 16 pages, folded table and cover; 7¼ by 9¾ ins. Issued by Brownlie & Green, Ltd., Manchester, Eng.