

PUBLICATIONS RECEIVED.

Ontario Bureau of Mines.—Twenty-fifth (1916) annual report.

Provincial Board of Health of Ontario.—Thirty-fourth annual report for the year 1915.

Canadian Society of Civil Engineers.—Transactions of the society from January to June, 1916.

The Kingshighway.—A report by the City Plan Commission, St. Louis, Mo., January 23, 1917.

Annual Report of The J. G. White Companies, general offices, 43 Exchange Place, New York City.

Manitoba Public Utilities Commission.—Fifth annual report for the year ended November 30th, 1916.

Sun Oil, Vol. VI., Filling and Shipping.—Published by the Sun Co., 1428 South Penn Square, Philadelphia, Pa.

Mineral Production of Canada.—Annual report for the calendar year 1915. Issued by the Department of Mines, Ottawa.

Sewage Disposal.—Twelfth and thirteenth semi-annual reports, 1916, of the Sewage Disposal Commission of the city of Fitchburg, Mass.

Wheaton District, Southern Yukon.—By D. D. Cairnes. Supplement to Memoir 31, Geological Survey, Department of Mines, Canada.

The Southern Plains of Alberta.—By D. B. Dowling. Memoir 93, No. 78 Geological Series, Geological Survey, Department of Mines, Canada.

Association of Dominion Land Surveyors.—Report of the tenth annual meeting held at Ottawa on January 31st and February 1st and 2nd, 1917.

Tennis Every Day on Concrete Courts.—Illustrated pamphlet, published by the Portland Cement Association, 111 West Washington Street, Chicago, Ill.

The Remodelling of an Old Graving Dock at Southampton.—By R. N. Sinclair, M.C.I. Paper read before the Concrete Institute on February 22nd, 1917.

Asphyxiation from Blast-Furnace Gas.—Technical Paper 106, Bureau of Mines, Department of the Interior, Washington, D.C. By Frederick H. Willcox.

The Coal-Fields and Coal Industry of Eastern Canada. A general survey and description by Francis W. Gray. Bulletin No. 14 published by the Dept. of Mines, Canada.

California Railroad Commission.—Bulletin of the progress of the California Railroad Commission's investigation of railroad grade crossings in the State, April, 1917.

Forest Branch.—Report of the Forest Branch, Department of Lands, British Columbia, for the year ending December 31st, 1916. M. A. Grainger, chief forester.

Scroggie, Barker, Thistle and Kirkman Creeks, Yukon Territory.—By D. D. Cairnes. Memoir 97, Geological Series No. 79. Issued by the Dept. of Mines, Ottawa.

Recent and Fossil Ripple-Mark.—By E. M. Kindle. Canada Geological Survey Museum Bulletin No. 25, Geological Series No. 34. Issued by the Department of Mines, Ottawa.

Canadian Society of Civil Engineers.—Report of proceedings of the thirty-first annual meeting held at the society's house, 176 Mansfield Street, Montreal, January 23rd and 24th, 1917.

Chemical and Biological Survey of the Waters of Illinois.—Report for year ending December 31st, 1915,

Water Survey Series No. 13. Published by the University of Illinois, Urbana, Ill.

How to Build Up Furnace Efficiency.—A handbook of fuel economy. By Jos. W. Hays, Rogers Park, Chicago, Ill. Tenth edition, 1916. 154 pages, 5 x 7 1/4 ins., paper cover, illustrated. Price, \$1.00.

Oxygen Mine Rescue Apparatus and Physiological Effects on Users.—By Yandell Henderson and James W. Paul. Technical Paper 82, Bureau of Mines, Department of the Interior, Washington, D.C.

Building and Ornamental Stones of Canada.—Report covering the provinces of Manitoba, Saskatchewan and Alberta, by Wm. A. Parkes, B.A., Ph.D. Published by the Department of Mines, Ottawa.

The International Nickel Company.—Fifteenth annual report of the International Nickel Co., 43 Exchange Place, New York City, for the fiscal year ended March 31st, 1917. President, Ambrose Monell.

The Alloys of Chromium, Copper and Nickel.—A preliminary study by D. F. McFarland and Oscar E. Harder. Bulletin No. 93, Engineering Experiment Station, University of Illinois, Urbana, Ill. Price 30 cents.

Report on Enlargement of the Montreal Aqueduct.—By H. E. Vautelet, Arthur St. Laurent and J. B. McRae, consulting engineers. Reprinted from *The Canadian Engineer*, issues of May 31st and June 7th, 1917.

Bulletin of the Imperial Institute.—A quarterly record of progress in tropical industries, etc., of the natural resources of the colonies and India. Published by John Murray, Albemarle Street, London, W., England.

Magnetic and Other Properties of Iron-Aluminum Alloys Melted in Vacuo.—By Trygve D. Yensen and Walter A. Gatward. Bulletin No. 95, Engineering Experiment Station, University of Illinois, Urbana, Ill.

Public Road Mileage and Revenues.—Bulletin No. 389 of the United States Department of Agriculture, Washington, D.C., dealing with public road mileage and revenues in the Central, Mountain and Pacific States, 1914.

Combustion in the Fuel Bed of Hand-Fired Furnaces.—By Henry Kreisinger, F. K. Ovitz and C. E. Augustine. Technical paper No. 137. Issued by the Bureau of Mines, Department of the Interior, Washington, D.C.

The Rational Design of Reinforced Concrete Wharves and Jetties, with particular reference to those for wet docks that have a permanent water level. Paper read before the Concrete Institute by W. Cleaver, M.Inst.C.E., on March 22nd, 1917.

The Results of Physical Tests of Road-building Rock in 1916, Including all Compression Tests.—By Prévost Hubbard, chemical engineer, and Frank H. Jackson, Jr., assistant testing engineer. Bulletin No. 537 issued by the United States Dept. of Agriculture, Washington, D.C.

Water Hammer Problems Solved by the Use of Alignment Charts.—Water hammer phenomena reviewed with charts for graphical solution of Joukovsky's and Allievi's formulæ. By R. L. Hearn, B.A.Sc., hydraulic department, Hydro-Electric Power Commission of Ontario. Reprinted from *The Canadian Engineer*, December 7th, 1916.

The Philadelphia Plan for Unified Federal Regulation of Railroads.—Presented by the Philadelphia Bourse and a program of basic regulatory legislation presented by the Philadelphia Joint Committee on the Reasonable Regulation of Railroads. Secretary, Emil P. Albrecht, 58 The Bourse, Philadelphia, Pa.