

Commissioner of Highways. It contains the papers, discussions and reports of the February, 1914, meeting.

Proportioning Aggregates for Portland Cement Concrete.—Reprint of paper by Albert Moyer from the proceedings of the American Society for Testing Materials. Issued by the Vulcanite Portland Cement Co., New York.

Accidents from Falls of Rock or Ore.—A circular issued by the United States Bureau of Mines outlining the causes and prevention of accidents from such falls under different conditions of mining, and general hints to miners on the subject.

Forestry.—Report for 1913 of the Director of Forestry, Department of the Interior, Canada, containing the reports also of district inspectors, inspector of fire ranging, and reconnaissance surveys in various Provinces. 136 pages; illustrated.

Trent Watershed Survey.—Map illustrating forest distribution and diagram showing classification of land to accompany previous report of the Commission of Conservation, Ottawa, on the Trent Watershed Survey (already reviewed in these columns).

Tabulation of Water Rates.—Report of Committee on Tabulation of Water Rates and other information of interest to water companies. 337 pages; size, 6 x 9 in.; reprinted from the Journal of the American Waterworks Association, for June, 1914.

Centrifugal Compressors.—By Louis C. Loewenstein. Issued by the Canadian General Electric Co., and reprinted from the General Electric Review. A very comprehensive discussion of the design, construction and operation of centrifugal compressors.

Lands, Forests and Mines.—Report for 1913 of the Minister of Lands, Forests and Mines of the Province of Ontario, including statements and reports of officers, surveyors, superintendents and of Mr. J. F. Whitson on the construction of roads in Northern Ontario.

The Pre-Cambrian Geology of Southeastern Ontario.—By W. G. Miller and C. W. Knight, of the Bureau of Mines of Ontario. The report also contains an appendix on the co-relation of the Pre-Cambrian rocks of Ontario, Western Quebec and Southeastern Manitoba.

Mother Lode and Sunset Mines. Boundary District, B.C.—Memoir No. 19, of the Geological Survey, Department of Mines, Canada. Compiled by O. E. LeRoy. It covers the general character of the district, its general and economic geologies and detailed description of the mines.

Clay and Shale Deposits of the Western Provinces.—Part No. 3.—By Heinrich Ries. Memoir No. 47 of the Geological Survey, Department of Mines, Canada. Report of the 1912 investigation of the Survey, including field work and results of tests of samples from a large number of localities in Western Canada.

Factors Governing the Combustion of Coal in Boiler Furnaces.—A 44-page preliminary report issued by the United States Bureau of Mines. It describes the equipment and character of tests constituting an extensive investigation; the coal used; results of the experiments; and discussion of results of tests.

Big Creek Initial Development.—1914 report of the Stone and Webster Construction Co., describing their work in connection with 4 dams, 2 tunnels, 2 power-houses, 2 240-mile transmission lines, sub-station and 56-mile railroad for the Pacific Light and Power Corp. Beautifully illustrated with photographs and colored map.

The Origin of Coal.—Bulletin No. 38, United States Bureau of Mines. 390 pages; illustrated; size, 6 x 9 in. It deals with the geologic relations of coals; analysis of samples; physiographic conditions attending coal formation; rate of deposition; origin and formation of peat; microscopic study of coal, and conclusions.

The Young Man and the Electrical Industry.—A reprint by the Westinghouse Electrical and Manufacturing Co. of an article by Jas. H. Collins dealing with the opportunity afforded a young man in the industry and the different lines in which he may direct his activities as exemplified in the works of that company. Article appeared in "Scientific American," May 16th, 1914.

International Joint Commission.—Opinions, reports of hearings and arguments, and orders of the International Joint Commission in the matter of (1) the application of the Michigan Northern Power Co. for approval of the obstruction, diversion and use of St. Mary's River water on the United States side of the boundary at Sault Ste. Marie, and (2) the application of the Algoma Steel Corp. upon the same problem.

Vitrified Brick, Pavements and Highways.—Specifications for the construction of vitrified brick street pavements and highways, being the 1914 revised edition issued by the National Paving Brick Manufacturers' Association. The specifications cover grading; drainage; stone curbing; concrete foundation; cushion; expansion joints; brick; brick-laying and inspection; rolling; cement grout filler; alternative concrete curbing; with similar specifications concerning cement-filled brick pavement; crushed stone; old gravel or macadam foundation; sand filler; in the case of each, i.e., street pavements and highways.

Poor's Manual of Industrials for 1914 (fifth annual number).—The book contains 2,500 pages, or about 300 pages more than any previous issue. About 750 new companies have been added and many new income accounts and balance sheets. These tables are mostly in comparative form. In addition, the Manual contains an appendix, giving late information on the Railroads and Utilities, supplementing these two Manuals. The publication of this volume completes Poor's Manual for 1914. The three books together contain over 6,500 pages, covering the entire field of corporate investment in America. They give statements of practically every corporation in which there is a public interest, and are noted for their accuracy, completeness and thoroughness.

CATALOGUES RECEIVED.

Morris Overhead Runway.—An illustrated bulletin of the Herbert Morris Crane and Hoist Co., Limited, Toronto, describing the "Q. E. F." type of runway as to capacities, construction, accessories, etc.

Storage Battery Locomotives.—A 4-page leaflet issued by the Canadian Westinghouse Co., Limited, Hamilton, Ont., descriptive of the Baldwin-Westinghouse Storage Battery Locomotives, as built in two types for mining and industrial service.

Work Done.—A 48-page illustrated booklet issued by Westinghouse, Church, Kerr and Co., New York, descriptive of some of the work which they have done for industrial plants. The work includes railways, steam and electric, as well as the design and construction of complete plants, etc.

Oil and Gas-Burning Appliances.—An 8-page bulletin issued by the Quigley Furnace and Foundry Co., Springfield, Mass., descriptive of appliances for burning oil and gas fuel, including burners, blowers, strainers, separators, regulating valves, gauges, storage tanks, pumping systems, etc.

Evidence as to Pavements.—A handsomely illustrated booklet published by the Barber Asphalt Paving Company, Philadelphia, describing the work done by them in various cities of the United States, and outlining the durability of such pavements as evidenced by many instances in which they are more than 20 years old.

Rail Bonds and Bonding Tools.—A catalogue issued by the Canadian General Electric Co., Toronto, and containing