

Ontario Highway Legislation.—A compilation of Ontario highway laws, prepared under the direction of Mr. W. A. McLean, commissioner of highways, and appended to his annual report on highway improvement, 1914. (See *The Canadian Engineer*, December 17th, 1914, page 767.)

Dundee Falls and Falls Village Developments.—A handsomely illustrated booklet, descriptive of these developments for S. D. Warren and Co. and Connecticut Power Co., respectively. Reprint from Stone and Webster Public Service Journal. S. and W. Engineering Corporation, New York.

Fire Prevention.—Reports on various activities of the British Fire Prevention Committee, 8 Waterloo Place, Pall Mall, London, S.W. 40 pp.; illustrated, including Committee's record for 1913; portable chemical fire extinguishers; self-contained smoke helmets; the Committee's inquiry office, etc.

Geographic Board of Canada.—Thirteenth Report, ending March 31st, 1914. It contains all decisions from inauguration of Board up to that date. Also list of counties in Canada and townships in Ontario, Quebec and Nova Scotia, and parishes in New Brunswick. As an appendix, it has an outline of the physical geography of Canada.

Analysis of Coal with Phenol as a Solvent.—A 41-page illustrated bulletin (No. 46), issued by the Engineering Experiment Station, University of Illinois, Urbana, Ill., prepared by S. W. Parr and H. F. Hadley. Deals with the division of bituminous coal with phenol as a solvent for resinic material while the cellulose residuum is insoluble.

American Society for Testing Materials.—Committee reports, being Part I. of the proceedings of the 17th Annual Meeting (1914). It includes reports on ferrous metals; non-ferrous metals; lime, cement and clay products; miscellaneous materials; preservative coatings, etc.; miscellaneous subjects. 484 pp.; illustrated; 6 x 9 ins. Secretary, Ed. Marburg, University of Pennsylvania, Philadelphia, Pa.

CATALOGUES RECEIVED.

Matheson Joint Pipe.—A handsomely illustrated 40-page booklet, descriptive of this system of piping for high and low pressures. Issued by the National Tube Co., Pittsburgh, Pa.

Directory of Piston Ring Sizes.—A 68-page booklet for users of automobiles, motor cycles, cycle cars, trucks, tractors, and engines. Issued by the Burd High Compression Ring Co., Rockford, Ill.

Variable Release Air-Brake Equipment.—A 12-page booklet describing this type of automatic air-brake equipment, its chief advantages, general design, operation, etc. Issued by the Canadian General Electric Co.

Drag-Line Excavators.—Leaflets descriptive of glasses, B, H, and K, of the Lidgerwood line, setting out specifications and illustrating the machine in use. Exclusive agents in Canada, Canadian Allis-Chalmers, Limited.

Lackawanna Descaling Process for Rail Sections.—A bulletin published by the Lackawanna Steel Co. describing this method of improving the quality of rails. A most interesting discussion of the subject, well presented and carefully illustrated.

Worm-Gear Chain-Blocks.—A 4-page leaflet (Bulletin B 10) on the construction of a chain-block designed for a load of 60 tons, and regularly tested to 90 tons. Issued by the manufacturers, the Herbert Morris Crane and Hoist Co., Limited, Montreal and Toronto.

Oxy-Acetylene Welding and Cutting and its Applications.—An extensive publication issued by L'Air Liquide

Society, Toronto, Montreal and Winnipeg, enumerating and illustrating the application of the Autogenous welding process in the different trades. Fully illustrated.

Hoisting Machinery.—A 144-page catalogue, well illustrated and durably bound. Published as Catalogue No. 3 of Marsh and Henthorn, Limited, Belleville, Canada. Sales agents, Mussens, Limited, Montreal. Fully descriptive of their types of hoisting engines and auxiliary apparatus.

Gas-Electric Motor Cars and Locomotives.—Bulletin No. 44,300; 8 pp.; illustrated; of special interest to railway men on branch line service of steam roads and on interurban railway service, to which this class of equipment is specially adapted, issued by the Canadian General Electric Co., Toronto.

Cochrane Multiport Valves.—A handsome, well-illustrated, 72-page catalogue of multiport valves for back-pressure service, atmospheric relief in vacuum service, flow service, and bleeder or extraction service. Catalogue 601. Harison Safety Boiler Works. Selling agents in Canada, Canadian Allis-Chalmers, Limited, Toronto.

REPORTS OF COMMITTEES, CANADIAN SOCIETY OF CIVIL ENGINEERS.

THE Council of the Canadian Society of Civil Engineers has recently issued, for the consideration of members prior to the Annual Meeting of the Society in Montreal, January 26-28, 1915, the reports of a number of standing committees. Ample opportunity is thus being given to each member for acquiring a thorough knowledge of the findings, as submitted, so that intelligent action may be taken with regard to them when they come up for consideration at the afternoon session of the first day of the meeting. We present herewith a summary of the submitted reports.

Report of Committee on Rails.—The committee, consisting of Mr. H. G. Kelley, chairman, and Messrs M. J. Butler, G. A. Mountain, J. M. R. Fairburn and A. F. Stewart, recommended the adoption by the Society of the rail specifications of the American Railway Engineering Association. The investigations and experiments of the engineers of the committee of that association have been carefully studied by the above committee and their findings, covering both chemistry and mill practice, have produced the specification now well known as the "A.R.E.A." rail specification. A copy of it is presented.

Report of Committee on Track.—This committee consists of Mr. H. R. Safford, chairman, and Messrs. W. A. Bowman, C. B. Brown, S. B. Clement, A. Crumpton, F. P. Gutelius, R. M. Hannaford, R. L. Latham, D. MacPherson, E. W. Oliver, A. F. Stewart, J. G. Sullivan, C. Warnock and A. C. MacKenzie.

The committee devoted itself to the study of two subjects: (1) Size and spacing of ties. (2) The proper method of measuring efficiency of track forces. The study of another subject, viz., Terminal facilities in cities for freight, including private sidings and cartage arrangements was, with the consent of the Council, postponed for the present. For a study of the two above-mentioned subjects the committee presents forms for the purpose of collecting from the membership as much needed data as possible bearing upon the question of track maintenance. Thereby relative values of the various features entering into track work may be arrived at, the idea behind the study being to work out some basis for equating these values as an aid to the proper distribution of allowances for track work.