Engineering.—A brief prepared for the Governor and the General Assembly of the State of Illinois concerning the work of the College of Engineering and the Engineering Experiment Station of the University of Illinois, Urbana, Ill., and a statement of their needs for the two years beginning July 1, 1917. Compiled by the Dean and heads of departments.

International Joint Commission.—Hearings of the International Joint Commission in re remedies for the Pollution of boundary waters between the United States and Canada, being public hearings held at Buffalo, N.Y., and Detroit, Mich., June 21-27, 1916, and Ogdensburg, N.Y., August 25, 1916. Published by the United States Government, Washington, D.C.

Design of Outlet Sewers and Sewer Outlets.—Report submitted to the Board of Estimate and Apportionment, City of New York, by the chief engineer of the board on behalf of the consulting engineers, recommending the adoption of certain general rules governing the design of outlet sewers and sewer outlets, which report was approved and which rules were adopted by the Board of Estimate and Apportionment at a meeting held on February 23, 1917.

United States Government Specification for Portland Cement.—Circular No. 33 of the Bureau of Standards, Department of Commerce, Washington, D.C. S. W. Stratton, director. This specification is the result of several years' work of a joint conference, representing the United States Government, the American Society of Civil Engineers, and the American Society for Testing Materials. It was adopted by the United States Government and by the American Society for Testing Materials, to become effective January 1st, 1917.

The Activated Sludge Process of Sewage Treatment.—By J. Edward Porter, chemical engineer, General Filtration Co., Irc., Rochester, N.Y. A bibliography of the subject arranged in chronological order. It includes, in addition, the nomenclature concerning the activated sludge process as suggested by Messrs. Dallyn, Hammond and Hatton, a committee appointed for that purpose by the American Society of Civil Engineers, notes on patents, etc. This publication will undoubtedly be found very useful and informative to all who are interested in sewage disposal and should find a place in the library of all civil engineers. Contains forty-two pages, 6 x 9 ins.

CATALOGUES RECEIVED.

The Whalen Form.—A 24-page illustrated booklet issued by E. J. Whalen, Syracuse, N.Y.

Excelsior Airometer.—A 15-page illustrated leaflet issued by The Denver Hydro Co., Denver, Colorado.

How a Tarvia Macadam Roadway is Constructed.—A 36-page illustrated booklet published by The Barrett Co., New York.

Portable Rock-drilling Outfits.—Catalogue No. 15, illustrated, issued by Chris D. Schramm & Son, Philadelphia, Pa.

Birch Pump Valves.—Illustrated folder issued by the Birch-Hintz Manufacturing Co., Chicago, giving descriptions of installations of their pump valves.

Thermodynamic Analysis of duty test of the De Laval steam turbine-driven centrifugal pump at Montreal.—Thirty-one page illustrated booklet issued by the De Laval Steam Turbine Co., Trenton, N.J.

Modern Methods of Brick Pavement Construction for roads and streets built with wire cut-lug brick. A 27-page illustrated booklet, published by The Dunn Wire-Cut Lug Brick Co., Conneaut, Ohio.

Storage Buildings.—Booklet issued by Lockwood, Greene & Co., engineers, 60 Federal Street, Boston, illustrating and describing a number of storage and warehouse buildings recently designed by them.

Tarvia, Tarvia-X and Tarvia-B.—Three booklets issued by The Barrett Co., New York, describing the use of Tarvia, and giving illustrations of roads in different parts of the United States on which it has been used.

Wood Tanks and Vats.—Folder issued by the Goold, Shapley & Muir Co., Limited, Brantford, Ont., describing with illustrations wood tanks and vats for all purposes, and towers and tanks for sprinkler, water supply systems, etc.

Standard Cast-iron Extension Shut-off Boxes for water and gas service pipes and street mains.—Illustrated booklet published by Bingham & Taylor, Buffalo, N.Y. Contains 28 pages and describes their different types of boxes, etc., together with price lists.

Mineral Rubber Pipe Coating.—Illustrated, 23-page booklet issued by the Standard Asphalt & Rubber Co., 208 South La Salle Street, Chicago, Ill., describing Sarco mineral rubber pipe coating for protecting steel, cast or wrought iron pipe against corrosion, tuberculation, electrolysis, earth's salts, or other damaging influences.

Chanelath Hand Book.—Sixty-four pages and cover, 6″ x 9″, coated paper, well illustrated. Containing information descriptive of Chanelath, and data on its erection, design, specifications, etc. Illustrates use for floors, ceilings, partitions, curtain walls, etc. Distributed by the Burns Cement-Gun Construction Co., Toronto, agents for the Northwestern Expanded Metal Co., Chicago.

Steel Storage Tanks and Plate Metal Work.—A 24-page and cover booklet issued by the Canadian Chicago Bridge & Iron Co., Limited, of Bridgeburg, Ont. Contains a score of illustrations of Canadian work carried out by this company, including overhead tanks for the city of Toronto filtration plant; for all of the Canadian railroads; for Canada Car Co., Proctor & Gamble, City Dairy Co. and many other industrial concerns; and for municipal waterworks at Stratford, Cartierville and a dozen other Canadian municipalities.

Progress in Waterworks Pumps.—A 48-page booklet published by the De Laval Steam Turbine Co., Trenton, N.J., discussing the general economic and engineering conditions affecting the design and installation of steam turbine-driven centrifugal pumps for city water supply. Installations in fifteen of the principal cities of the United States and Canada are described, including 34 units aggregating 999,000,000 gallons per day capacity. The publication should be of value to anyone interested in the handling of water in large quantities.

Air Compressors.—Bulletin K-302, 16 pages, 6 x 9 ins., illustrating a line of steam-driven, straight-line, single-stage air compressors manufactured by the Canadian Ingersoll-Rand Co., Limited, of Montreal. The type of machine described is designed to cover the field of those requiring compact, self-contained units of small and medium size for service in shop, foundry, mill or electrical plant, etc. Automatic splash lubrication, dust-proof construction, "Circo" silent leaf valves and quick convertibility to belt-drive are among the leading features of the design dwelt upon in this publication.