

Clay and Shale Deposits of New Brunswick.—Memoir No. 44, by J. Keele, published by Geological Survey, Department of Mines, Ottawa. This report is on the result of investigations to determine whether the clay and shale deposits in New Brunswick were of sufficient extent to be of economic value, or of use to manufacturers of burned clay wares, for structural or other purposes.

Electrical Furnaces for Making Iron and Steel.—Bulletin No. 67 of investigations carried out by the Bureau of Mines with a view to increasing safety efficiency and economic development in metallurgical industries. The application of electricity to various processes, and especially to those in the manufacture of iron and steel, is given special attention. This bulletin gives some of the results of work already done, a brief historical review of the development of electric furnaces for making iron and steel, and discusses the problems that remain to be solved in the use of electric furnaces for the smelting of iron ores and the production of pig iron at a profit on a commercial scale.

CATALOGUES RECEIVED.

Rope Drives.—An 8-page pamphlet issued by the Mesta Machine Co., Pittsburg, Pa., and describing installations of rope drives for almost all conditions of service.

Sewage Disposal Plants.—Bulletin, series "G," No. 1, describing apparatus, equipment, and complete plants for sewage disposal. Issued by the Sanitation Corporation, New York.

Watthour Meters.—Circular No. 1137 containing 24 pages descriptive of watthour meters for alternating and direct currents. Issued by Canadian Westinghouse Co., Limited, Hamilton, Ont.

Turbine Pumps.—Bulletin No. 2001, issued by Canadian Allis-Chalmers, Limited, descriptive of the construction, working principles and applications of the Mather and Platt Patent high-lift turbine pumps.

Axtec Asphalt.—The Interocean Oil Co., of New York, have issued a well gotten-up catalogue describing Aztec asphalt, its composition, use and advantages. This catalogue is well illustrated and contains 28 pages.

Cochrane Meters.—Engineering leaflet describing the practical uses and advantages of Cochrane meter heaters, feed water meters, and independent meters. Issued by the Harrison Safety Boiler Works, Philadelphia, Pa.

Iroquois Road and Street Paving Machinery and Tools.—A 16-page catalogue illustrating and describing road rollers, bituminous mixing plants and other road-making appliances. Issued by Barber Asphalt Paving Co., Buffalo, N.Y.

Low Voltage Lighting Outfits.—A comprehensive bulletin describing the simplicity, adaptability, and convenience of low voltage lighting outfits for minor lighting purposes. Issued by the Northern Electric Co., Limited, Montreal.

The Lighting of Wood-Working Plants by Modern Methods.—A 12-page bulletin, describing and illustrating the possibilities of Mazda lamps for wood-working establishments. Issued by the Canadian General Electric Co., Limited, Toronto.

Motor-Driven Pumps.—A 24-page illustrated catalogue describing the advantages of the motor drive for pumps, the application of motors to pumps, and various pumping data, issued by the Westinghouse Electrical and Manufacturing Co., East Pittsburg, Pa.

Morris Trolleys.—Illustrated bulletin issued by the Herbert Morris Crane and Hoist Co., Limited, Toronto, dealing with the various types of travelling trolleys made by that company. Illustrations, diagrams and tables of dimensions are arranged in handy form.

Giant Cranes.—An elaborate 116-page catalogue issued by the Deutsche Maschinenfabrik, A.G., Duisburg, Germany, describing their stationary, travelling, slewing and floating cranes. This catalogue is profusely illustrated with fine half-tones of cranes in operation.

The Lighting of Machine Shops and Metal-Working Plants.—Illustrated bulletin No. 43,402 describing the importance of perfect lighting, the method of lighting and the superiority of Edison Mazda lamps for such lighting. Issued by Canadian General Electric Co., Limited, Toronto.

Forging Ahead in Business.—An interesting 88-page catalogue published by the Alexander Hamilton Institute, of New York. This catalogue is descriptive of their modern business course and service, and gives a brief biological sketch of each of the Advisory Council and staff and of the special lecturers.

Tarvia, The Modern Binder, Road Preserver, and Dust Preventative.—A finely-illustrated 48-page catalogue issued by the Barrett Manufacturing Co., New York, describing the preparation and application of their tar dust layers and tar binders. The illustrations are of fine roadways, streets and drives treated with or constructed from Tarvia.

Avery Automatic Scales.—20 pp. of illustrated and descriptive information of this type of automatic scales for coal and water in power plant installations and of totalizers, crane scales of various types for industrial service, issued by the Avery Scale Company, for whom Canadian Allis-Chalmers, Limited, Toronto, are Canadian agents.

Railway Sign Apparatus.—A 24 pp. catalogue descriptive of model 2-A signal of the General Railway Signal Co., Rochester, N.Y. Also a 64 pp. pamphlet descriptive of the same in a very convenient size containing numerous circuit diagrams, instructions for installation and maintenance, etc. The company have also issued a 12 pp. bulletin descriptive of their plate rail clips and detector bars; also an 8 pp. description of their improved lightning arrester.

United States Steel Products Company.—General catalogue 1914, third edition, dealing completely with their many products, including rails, cross ties, switches, bonds, billets, blooms, etc.; also structural steel for buildings, bridges, derricks, etc. The catalogue comprises 635 pages, and covers almost every conceivable product, such as horse shoes, wire springs, tacks, nails, spikes, cables, ropes, fence wire, reinforcing mesh, music wire, etc.; conversion tables of weights, measures, specifications for structural work, steel railway bridges, steel axes, etc., etc.

Demag Cold-Rolling Machinery.—A handsome, finely-illustrated catalogue issued by Deutsche Maschinenfabrik A.G., Duisburg, Germany, describing their cold-rolling machines for the manufacture of long bands of steel, brass, iron, copper, tin, zinc, etc. Other types of rolling mills, circular and roll shears, straightening machines and other auxiliary equipment for rolling mills are described and illustrated. This catalogue, containing 48 pages, is representative of a high-grade manufacturing plant.

AREA OF THE PROVINCE OF ONTARIO.

On page 739 of our issue of May 14th, the division, by the Public Roads and Highways Commission of the Province of Ontario, as set forth in their recent report, does not include the addition of the district of Patricia in 1912. Two hundred and sixty thousand square miles represented the approximate area prior to this addition. The total area of the Province is now four hundred and seven thousand two hundred and sixty-two square miles, according to published statistics of the Department of the Interior, Ottawa.