

John F. Allen, 370-372 Gerard Ave., New York. Riveting Machines.

Pratt & Whitney Co., Hartford, Conn. Thread Milling Machine; Adjustable Multi-Spindle Drills, Gang Drills; Screw Machines; Lathes.

Westinghouse Electric and Mfg. Co., Pittsburg, Penn. Engine Type Alternators; Direct Connected Railway Generators; Westinghouse Railway Motor; Type S Motors.

Chicago Pneumatic Tool Co. Piston Air Drills.

Standard Tool Co., Cleveland, Ohio. Drills, Reamers, Taps, Chucks, etc.

Mason Regulator Co., Boston. The Mason Automobile Engine.

Manzel Bros., Buffalo. Manzel Light Feed Automatic Oil Pumps.

Goudey-McLean Co., 120 Liberty St., New York. Electric Lamps.

J. Stevens Arms and Tool Co., Chicopee Falls, Mass. Supplementary Fire Arms List.

International Ball-Bearing Co., Jamestown, N.Y. Gurney Ball Bearings.

Multiscope and Film Co., Burlington, Wis. Al-Vista Panoramic Camera.

Correspondence Institute of America, Scranton, Penn. Electricity Taught by Mail.

Mines and Minerals, Scranton, Penn. Directory of Manufacturers of Mining and Milling Machinery.

THE LATE SAMUEL ROGERS.

The many engineering firms, with whom the Queen City Oil Co. have done business throughout Canada, will regret to learn of the death of its president, Samuel Rogers, who passed away at his home in Toronto on the 27th September, at the age of 69. Mr. Rogers has been in precarious health for a year or two from heart disease, but his last illness was only of a couple of days' duration. The deceased was a grandson of Timothy Rogers, who settled in York County, Ont, in 1800, and was one of the pioneer millers of the western part of Ontario. Mr. Rogers came to Toronto in 1876, and in the following year started in the oil business, as Samuel Rogers & Co., the business being afterwards turned into a joint stock company, under the name of the Queen City Oil Co., of which he was president and manager. He was a member of the Society of Friends, and was personally a man of high business integrity, as well as a philanthropist. He was a director of the Hospital for Sick Children, one of the Board of Pickering College, and gave much in an unobtrusive way to charity. He was a brother of Elias Rogers, the Toronto coal merchant, and a director of the Crow's Nest Pass Coal Co. He leaves four daughters and two sons, Joseph P. and Albert S., the latter being acting manager of the company.

LITERARY NOTES.

"The Art of Pattern Making," by I. McKim Chase, M.E. 12mo., 254 pages, \$2.50; published by John Wiley & sons, New York, and Chapman & Hall, London.

This gives the author's idea of managing a modern pattern shop, and instructions as to the handling of material. His specialty is pattern work for marine engines and propellers, and for launch engines, but there are chapters on general work, including gear wheels, belt pulleys and fly wheels, lathe work, and on pattern makers' tools, with some tables in the last chapters.

"Hydraulics, with Working Tables," by E. S. Bellasis, M. Inst., C.E., engineer of Irrigation Branch of the Public Works Department of India; 303 pp., 5½ by 8½; \$5.50; published by Rivingtons, Covent Garden, London, and Wm. Briggs, Toronto.

The subject of hydraulics is one of peculiar interest to engineers in Canada, where such enormous water powers are yet to be utilized, and such large areas of agricultural

land can be improved by irrigation. In the latter aspect of hydraulic engineering the present author's work is of special value, as many difficult problems have been solved in extending irrigation works in India. A text book of this character was needed, because of the errors in co-efficients given in former works on this subject, and also because of the great advances made in hydraulics since the evolution of electrical water-power work has turned so much attention to the flow of water under varying conditions. Mr. Bellasis' work gives a number of valuable tables in which old errors have been corrected, and there are many illustrations to the text. After the introduction, containing useful figures, and remarks on the characteristics of flowing water, there are chapters dealing with "general principles" and formulae; with the flow of water in orifices, in weirs, in pipes, in open channels of uniform flow, and in open channels of variable flow; with observations on velocities, discharges and on instruments used for measurements; on the dynamic effect of flowing water, etc. We can commend it as a clearly written and comprehensive treatise.

"How to Measure up Woodwork for Buildings," by Owen B. Maginnis, Inspector of Buildings for New York City; 79 pages, 4½ by 7; price, 50 cents; published by The Industrial Publishing Co., New York.

A handbook giving diagrams and instructions for figuring up woodwork required for brick or frame houses. The chapters deal with the measuring of window frames and sashes, doors, jambs, bases, wainscoting, stairs, balusters, railings, mouldings, transoms, etc. This is the first publication dealing with the measurement of house woodwork.

The same author and publishers have produced a treatise on "Roof Framing;" 164 pages; size 5 by 8, illustrated, \$1. This is published as a practical, easily comprehended system, adapted to modern conditions, for laying out and framing roofs. This helpful handbook has gone through two editions.

The 103rd issue of the Royal Navy List has appeared, the publishers being Witherby & Co., 326 High Holborn, London. For a motto on the cover, which is printed in blue, it has Nelson's inspiring exhortation, "England expects that every man will do his duty." This issue contains several hundred pages of printed matter, giving lists of all officers of the navy, with dates of appointment, etc.; a list of ships with their tonnage, horsepower and class; brief memoirs of leading officers, with their record of service and other information. The introduction contains an interesting sketch of the current history of the navy covering the last three months preceding publication. It is noted here that £7,996,000 will be spent under the head of new works, and among the items will be sums covering the cost of introducing electric light and power in all the British dockyards and naval stations throughout the world—works for which Canadian firms may be successful tenderers. A new school of naval gunnery will be established.

The Canadian Manufacturer Publishing Co., McKinnon Bldg., Toronto, have rendered the commercial world a good service by compiling, from official sources, the customs tariffs of Canada, Great Britain, the United States, Australia, and South Africa. Apparently it is the first attempt to present what may be called an Imperial tariff book, and in these days, when the fiscal relations of Great Britain and her colonies are so intently discussed, such a work will be very valuable for reference. It appears in the form of a special number of the Canadian Manufacturer, and is sold at the popular price of 50 cents.

Other publications received are: Journal of the Mining Society of Nova Scotia, Vol. VII., transactions of 1902-03; Halifax, N.S.

American Railway Engineering and Maintenance of Way Association; fourth annual report; 549 pages; also from the same, Report of Committee on Buildings, and a bulletin containing "Specifications for Portland and Natural Cements," adopted, 1903. The latter is sold at 10 cents per copy, or 10 copies for 50 cents. Address, 1562 Monadnock Building, Chicago.