

**Tide Tables.**—Tide tables for Quebec, Father Point, Halifax, and St. John, N.B., for the year 1906 have just been issued by the Tidal and Current Survey in the Department of Marine and Fisheries. This report gives the tidal differences for the Gulf and River St. Lawrence, Nova Scotia, the Bay of Fundy, and information on currents.  $6\frac{1}{2} \times 9\frac{1}{2}$ , pp. 30.

**Reports of the British Tariff Commission.**—Volume I.: The Iron and Steel Trades. This report gives in detail the results of the enquiry into the iron and steel industry, together with provisional conclusions which have been reached. The final conclusions will not be published until the Commission has completed its enquiry into the other trades.  $8\frac{1}{2} \times 12$ , pp. 100. Volume II.: The Textile Trades. Part I.: The cotton industry, giving statistics of the world's cotton industry in detail by charts and tables. Much valuable information concerning the cotton trades is contained in this report.  $8\frac{1}{2} \times 12$ , pp. 100. Published by the Tariff Commission, 7 Victoria Street, S.W., London.

**The Annual Report of the Chief of the Bureau of Steam Engineering,** Navy Department of the United States, Washington, D.C., has just been issued. This report covers the operations of the Bureau during the fiscal year ending June 30, 1905, together with estimates for the fiscal year ending June 30, 1907. A register of the vessels in the United States Navy is included.  $5\frac{3}{4} \times 9$ , pp. 60.

**Reports of the Bureau of Mines.**—In a report of the Bureau of Mines, Part II., which has just been published, Prof. Willett G. Miller, Government Geologist, embodied the results of his recent surveying trip in the cobalt and silver mining fields of the Lake Temiskaming region. The report is an exhaustive one containing some sixty pages of very interesting information, profusely illustrated from photos taken during the trip.  $6\frac{1}{2} \times 9\frac{3}{4}$ , pp. 65.

The fourteenth Annual Report of the Bureau of Mines has just come to hand. Exhaustive statistics of the mineral production of the Province of Ontario are given, together with those of the cement industry. A description of the silver cobalt ores of Lake Temiskaming by Prof. Willett G. Miller, Provincial Geologist, and a monograph on the Sudbury nickel region are contained in this report.  $6\frac{3}{4} \times 9\frac{3}{4}$ , pp. 374.

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#### CATALOGUES AND CIRCULARS.

**Motor-Generators.**—Canadian Westinghouse Co., Limited, Hamilton, Ont. Circular 1119 describes the various types of motor-driven generators, which are shown by half-tone engravings.  $7 \times 10$ , pp. 12.

**Steam Hoisting Engines.**—C. W. Hunt Co., West New Brighton, N.Y. Illustrated catalogue No. 058 is descriptive of hoisting engines of unusually massive construction, especially designed for heavy duty in continuous service.  $6\frac{1}{2} \times 9\frac{1}{4}$ , pp. 36.

**Advertising Agents.**—John Haddon & Co., Salisbury Square, London, E.C. Messrs. Haddon, in a very artistically gotten up catalogue, announce the visit of their Mr. Walter Haddon to New York. Mr. Haddon's address while in New York will be 31 West Thirty-first Street, New York.  $7 \times 10$ , pp. 8.

**Machine Tools.**—In "Progress Reporter" the Miles-Bement-Pond Co., 111 Broadway, New York, endeavor from month to month to keep those interested informed as to the new machines which they are constantly placing on the market.  $13 \times 9$ , pp. 8.

**Motor-driven Air Compressors.**—National Electric Co., Milwaukee, Wis. Bulletin No. 363 describes and illustrates stationary and portable motor-driven air-compressors for continuous and intermittent service.  $7 \times 10$ , pp. 8.

**Coal-handling Machinery for Mines.**—The Jeffrey Manufacturing Co., Columbus, Ohio. Coal-handling appliances of all kinds are described and artistically illustrated in catalogue No. 20.  $6 \times 9$ , pp. 142.

**Asbestos.**—The Canadian Asbestos Co., Montreal, issue a popular monthly, setting forth the advantages of asbestos for pipe covering, gland packing, paint, etc. The text is interspersed with bright literary gems. No. 9, Vol. I.  $8\frac{3}{4} \times 6$ , pp. 10.

**Locomotives.**—American Locomotive Co., New York. The Mallet articulated compound locomotive is described in detail, and pictured, in a catalogue which has just been issued.  $9 \times 6$ , pp. 32. The same company have also just issued a similar catalogue describing the Cole four-cylinder locomotive.  $9 \times 6$ , pp. 36.

**Polyphase Induction Motors.**—National Electric Co., Milwaukee, Wis. These motors are fully set forth in Bulletin No. 350.

**Electric Switches.**—The Hill Electric Switch Co., Limited, Montreal, Que. Bulletin No. 105 shows various kinds of knife switches, and indicates prices of same.  $6 \times 9$ , pp. 16.

**Door Checks.**—The Yale & Towne Manufacturing Co., New York, N.Y. "The Peacemakers" is the title of a daintily printed and illustrated little story, setting forth the advantages to be derived from the use of "Blount Door Checks,"  $5 \times 6$ , pp. 16.

**Engineers' Supplies.**—The Canadian Fairbanks Co., Montreal, Toronto, Vancouver, and Winnipeg, describe the many engineering specialties which they sell in a monthly publication, called "The Fairbanks Standard,"  $6 \times 9$ , pp. 16.

**High-speed Enclosed Steam Engines.**—The Boston Steam Engine Co., 246 Summer Street, Boston, Mass. A pamphlet describing high-speed engines, especially suited for electric generating sets.  $6\frac{1}{4} \times 9\frac{1}{4}$ , pp. 4.

**Coal Conveyors.**—C. W. Hunt Co., West New Brighton, N.Y. "Hunt" Automatic Railway is the title of a fine catalogue, which graphically pictures the "automatic railway" as used in numerous coal plants.  $6\frac{1}{2} \times 9\frac{1}{4}$ , pp. 36.

**Control Apparatus and Trolleys for Single-phase Railway Systems.**—Westinghouse Electric and Manufacturing Co., Pittsburgh, Pa. Control apparatus and trolleys for single-phase electric railway systems are well described in Circular 1127.  $7 \times 10$ , pp. 15.

**Motors and Motor Boats.**—C. L'Estrange Ewen, 45 Hope Street, Glasgow, Scotland. To anyone interested in motor boats this catalogue is worthy of attention. It is beautifully illustrated, and contains valuable technical data.  $9\frac{1}{4} \times 6$ , pp. 32.

**Vertical Engines.**—B. F. Sturtevant Co., Hyde Park, Mass., have just issued Bulletin 125, descriptive of their V. S. 5 Vertical Engines.  $6\frac{1}{2} \times 9$ , pp. 8.

**Indicator Cocks.**—The Schauffer & Budenburg Manufacturing Co., Brooklyn, N.Y. A new four-way indicator cock is fully set forth in a pamphlet which this firm has just issued.  $6 \times 9\frac{1}{2}$ , pp. 4.

**Guide for Buyers.**—A list of the leading British manufacturers and merchants, published by "Commercial Intelligence," 166 Fleet Street, London, E.C.  $5\frac{1}{2} \times 7\frac{3}{4}$ , pp. 52.

**Steam Turbines.**—Westinghouse Machine Co., East Pittsburgh, Pa. A booklet giving the names of users of the Westinghouse-Parsons turbine.  $4 \times 7\frac{3}{4}$ , pp. 4.

**Roller Bearings.**—Canadian Bearings, Limited, Hamilton, Ont. The products of this new company are well illustrated and described in a catalogue which they have just issued.  $4\frac{3}{4} \times 7\frac{1}{2}$ , pp. 32.

**Gas and Gasoline Engines.**—The Temple Pump Co., Chicago, Ill. Copious illustration and lucid description set forth the manufactures of this company in a readable catalogue.  $5\frac{3}{4} \times 8\frac{1}{2}$ , pp. 24.

**Calendars, 1906.**—The B. Greening Wire Co., Hamilton, Ont., have again issued their annual calendar. This one for 1906 is quite up to their high standard. It is artistically designed and the date figures legible, while the tables and technical data on wire ropes, etc., are invaluable. Send for one.

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#### CORRESPONDENCE.

##### "TURBINIA."

Editor The Canadian Engineer:

Knowing your interest in comparisons between turbine and reciprocating engines, I have pleasure in submitting account for the season of 1905.

Total coal bought, 4,125 tons, 2,000 lbs. per ton.

Night and Sunday firing: 1,056 tons, ship lying at her dock, Hamilton; 132 tons, ship lying at her dock, Toronto.

Total coal consumed while lying at dock, 1,188 tons.

Total coal consumed while running,  $4,125 - 1,188 = 2,937$  tons.

(This is for all purposes; pumps, electric light, engine, etc.)

Total number round trips, 338. Distance,  $78\frac{1}{2}$  miles.

Coal per round trip, 8.7 tons.

Miles per ton of coal, 9.1 short tons; 10.19 long tons.

Considering the ship runs steady two miles above her calculated speed, and estimated at the H.P. necessary for her calculated speed, viz., 33.50 with 2.175 tons being burnt per hour, from above, gives 1,301 lbs. of coal per 5 H.P. per hour.

ALBERT WHITE,

Chief Engineer S.S. "Turbinia."

December 17th, 1905.

[Note.—The "Turbinia" is now doing passenger service between Kingston, Jamaica, and Santiago, Cuba.]