

there is no doubt of the permanency of the camp; that is, that the ore will be found at great depths. Ore is being mined in Germany at depths of 1,500 and 2,000 feet under similar conditions.

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## PERSONAL

S. Walter Mower, of London, Ont., was recently appointed secretary and treasurer of the American Engineering Association.

Chas. H. Mitchell, C.E., Niagara Falls, Ont., has been re-elected to the Senate of the University of Toronto. Mr. Mitchell is now reporting on a hydro-electric development in Calgary, Alta.

Robert Surtees, one of the best-known engineers in Canada, died at his home in Ottawa on September 29th. Mr. Surtees was for many years City Engineer of Ottawa, his most recent work being the planning of the Ottawa Drive System, which is admired by all visitors to the capital.

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## MUNICIPAL WORKS, ETC.

The Smart-Turner Machine Co., Limited, Hamilton, are building a compound duplex pumping engine for the town of Carberry, Man.

The town of Dartmouth has awarded the contract to the Canadian Fairbanks Co. for the complete lighting plant for the town, consisting of a 150 Horse Power Fairbanks-Morse suction gas-producer plant and a 10 k.w. alternator. The Fairbanks Company will make the complete installation, consisting of the producer engine, alternator, switch-board, etc.

The corporation of Port Arthur, Ont., have placed contracts for an important extension to the municipal hydro-electric plant. The water wheel portion of the equipment will consist of a pair of 30" special Crocker turbines, arranged in horizontal steel case, discharging centrally, and developing 1,300 Horse Power at 450 R.P.M. under 85'-0" working head, the runners being of bronze. For government there will be a type "C" Woodward water wheel governor. The contract for the turbines was placed with the Jenckes Machine Co., Limited, Toronto, which company also built the two turbine plants already embraced in the Port Arthur municipal plant. The turbine unit will be direct connected to an Allis-Chalmers-Bullock generator.

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## TELEGRAPH AND TELEPHONE

The Quebec city council have granted a franchise to the La Compagnie de Telephone de Bellechasse, of Levis, giving them the right to operate in the city.

The wireless safety appliance of a German marine engineer is set to work during fogs and heavy weather, and acts automatically when two vessels approach within a certain distance. The action closes the steam-pipe to the screw of each vessel. This checks the machinery, gives time for reversing the engines, and prevents collision.

The Ingersoll Telephone Company, Ingersoll, Ont., has been organized, with the following officers: President, H. F. Boyse; vice-president, O. E. Robinson; secretary, E. H. Hugill; manager, T. A. Mayberry. Over 300 subscribers have already been secured, and the work of installing the system will be commenced at once.

The Stark Telephone Power and Light Company has decided to enter and compete with the Bell Telephone Company. The company has been granted a franchise by the Welland town council, and will make its headquarters in that town. It will operate without a central office, and will have no hello girls, the system being an automatic one. The company will also be in a position to furnish power, as it has practically closed the deal for a block of power with one of the electrical companies of the district.

Sensational developments are reported from the International Wireless Telegraph Conference, held in Berlin re-

cently. The opposition of Great Britain to an interchange of communication by all systems was not supported. Japan and France have deserted her, Italy being the only country that showed any indication of supporting the British opposition.

The town of Lindsay, Ont., is to have competition in the telephone business, the town council having passed a by-law granting a 21-year franchise to the Canadian Machine Telephone Company, of Toronto. The new system is to be installed in a year.

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## NEW INCORPORATIONS.

**Manitoba.**—Russell Gas Company, Russel, \$5,000. T. A. Wright, A. McDonagh, D. M. Kinnaird, A. G. P. Smellie, W. J. Doig, A. L. Buie, R. R. Roger, W. Ledingham, Russell.

Ideal Fence Company, Winnipeg, \$100,000. W. L. McGregor, G. M. McGregor, Walkerville, Ont.; W. H. Burnham, Adrian; F. W. Prentice, Detroit, Mich.; F. C. Stevenson, Winnipeg.

Detachable Boiler Flue Manufacturing Company of Canada, Winnipeg, \$150,000. F. C. Bell, J. Y. Griffin, W. E. Skinner, G. A. Metcalfe, E. J. Gifford, Winnipeg; J. M. Crozier, Minneapolis; F. W. Newton, St. Paul, Minn.

**Dominion.**—La Fonderie de Cloches, Crouzet, Hildebrand, Montreal, \$100,000. J. D. Rolland, A. Turcotte, P. V. Rongier, R. G. DeLorimier, L. Boyer, Montreal.

Milton Hersey Company, Montreal, \$40,000. M. L. Hersey, Montreal; T. S. Gladding, New York, N.Y.; C. R. Hazen, Cleveland, Ohio; C. H. Lester, P. C. Ryan, A. F. Bazin, J. B. Saxe, Montreal.

The Stuart Turbine Company, Montreal, \$20,000. H. A. Allan, G. Hannah, T. M. Todd, P. Davidson, A. J. Collins, Montreal.

Megadyne, Limited, Montreal, \$250,000. C. A. Barnard, C. Dessaulles, R. Roy, C. A. Sara, W. F. Sharswood, Montreal.

Canadian Primelectro Company, Montreal, \$1,000,000. A. Quackenbush, Ottawa; G. G. Roe, W. Robertson, Montreal; S. L. Tingley, Providence, R. I.; B. L. Nowell, Montreal.

Mexican Production and Development Company, Montreal, \$100,000. A. T. Lawrence, D. Smith, W. Wetzel, Montreal; W. F. Thomas, St. Thomas; G. M. Hamann, Mexico.

**Ontario.**—Rochester Mining Company, Toronto, \$40,000. J. E. Dupuis, Massey, Algoma; J. LeFrois, Rochester, N.Y.; Z. Gallagher, E. M. Wilson, H. M. English, Toronto.

The Manson Manufacturing Company, Thorold, \$100,000. C. H. Manson, W. Manson, St. Catharines; S. E. Craig, Snelgrove; R. L. Murray, Paris; A. Gunn, Durham.

Welland Electrical Company, Welland, Ont., \$175,000. W. E. Phin, M. McAuliff, W. M. German, R. Cooper, J. H. Crow, Welland; C. Henderson, Wainfleet, Ont.

The International Cobalt and Silver Mining Company, Sault Ste. Marie, \$500,000. G. Kemp, D. H. Jacobi, C. Frank, S. Frank, F. Niebuhr, Sault Ste. Marie, Mich.

Pittsburg Coal Company, Port Arthur, \$100,000. J. S. Lovell, R. Gowans, E. W. McNeill, W. F. Ralph, W. Gow, Toronto.

Canada Steam Pump and Machine Company, Toronto, \$40,000. A. H. Eby, T. O. Bard, A. A. Eby, J. Bard, M. F. Eby, Toronto.

The Canada Forge Company, Welland, \$100,000. T. J. Dillon, J. T. Dillon, C. Burgess, E. O. Emerson, E. O. Emerson, Jr., J. L. Emerson, Titusville, Pa.

Lehigh Portland Cement Company, Thurlow, \$1,000,000. H. C. Trexler, E. M. Young, C. A. Matcham, G. G. Sykes, Allentown, Pa.; A. W. Thorn, Buffalo, N. Y.

Canadian Gas Power and Launches, Toronto, \$500,000. J. Laishley, S. F. McKinnon, L. C. Laishley, R. Hunter, H. M. Wetherald, Toronto; W. S. Marshall, M. Campbell, Chatham.

The Detroit and Algoma Silver Mining Company, Windsor, \$100,000. A. W. Wright, W. H. Morris, L. J. Wornlich, Detroit, Mich.; M. Cowan, J. W. Adams, Windsor.

Ideal Cylinder Snow Plow Company, Toronto, \$100,000. E. D. Weber, A. H. Hough, Wiarton; G. Currie, M. M. Heiles, Atwood; A. G. MacKay, Owen Sound.

Ideal Concrete Machinery Company, London, \$75,000. F. A. Borst, G. B. Pulfer, M. Wetzstein, South Bend, Indiana; J. M. McEvoy, F. M. Leach, London.

Temiskaming Hematite Iron Company, Toronto, \$42,000. C. G. Knott, G. H. Smith, O. M. Hodson, G. Stevenson, Toronto; W. H. Hodson, Lockport, N. Y.; J. E. Clark, Orillia.