



PROVINCIAL HAPPENINGS

Vancouver automobile drivers will in future be required to take out licenses. Harry Lauder plays at the Imperial Hotel, Vancouver, on the 14th inst. Vancouver's building expenditure for the just ended year broke all provincial records with a total of \$7,241,135. Over 1,400 marriages were solemnized in Vancouver last year, as compared with 878 for the previous twelvemonth. Bank clearings of the year in Vancouver showed an increase of \$107,000,000.

New Westminster's Scots will celebrate Burns night with a concert and ball on the evening of the 24th inst. The court of revision at New Westminster has dismissed all appeals from assessments in the Royal City. Nanaimo's Orphan club is to give a general concert at the Coal City's general hospital, today.

Dr. Whillans, the pioneer medical practitioner of Princeton, has left that city for the coast, where he purposes taking up his residence. At Vancouver on Wednesday, the marriage was solemnized of B. Wilberg, of the firm of Wilberg & Wilberg, and Mrs. Helen Taylor, of San Jose. The draw span in the new Lulu Island bridge was opened on Wednesday for the first time to permit vessels to pass up river.

The case of Eugene Kelly, charged with attempting to murder Roy Mitchell, of Vancouver, has been adjourned until Monday next. Fernie now has a population of over 7,000 with over 1,500 homes. Immediate extension of the sewerage and water service is necessary. New Michel is to have a first-class hotel to be erected through the enterprise of P. Zarotti.

Nelson's new Y. M. C. A. building will be completed by March 1. John McDonald, of Vancouver, and Miss Annie Fraser, of Salmon, Arm, have been united in marriage. Reeve Evans, of Salmon Arm, has declined to be a candidate for reelection at Fourth Avenue cars will run through to Cedar Cottage in the very near future.

Mrs. Robert White of Ladysmith, who was cruelly wounded by the last tension mine disaster, met with a serious loss Thursday, \$105 disappearing from her purse. Martin Dalber of Vancouver was on Friday fined for criminal negligence, Acting Magistrate South-Promising imprisonment without the option of a fine should the offence be repeated.

The engagements are announced of Miss Eugenie of Ladner to Jack J. P. Fraser, of Victoria, and of Miss Rachael Hughes to David Gunn of Boundary Bay. A notable increase in Vancouver's assessment values was noted in the year just closed, the estimate amounting to \$72,681,321 to \$106,572,476. The city's population increase during the twelvemonth is estimated at 12,460.

The North Vancouver Athletic Association is to seek immediate incorporation. Vancouver's new Labor Temple is to be a handsome four-story structure, and cost approximately \$40,000. The Presbyterians of Mount Pleasant, Vancouver, have had their handsome new church home.

Mr. and Mrs. Duncan Gilles, of Nanaimo, have just celebrated their silver wedding anniversary. The G. T. P. will shortly submit definite proposals to Vancouver city in respect to the False Creek tidelands. New Westminster's vital statistics for the just past year are: Marriages, 207; deaths, 351; births, 286.

For making alterations to the Wilson house but without first obtaining permission from the licence commissioner, J. R. McKinnell, of Nanaimo, has been fined in the coal city police court. The House Hospital at Nelson, owned and conducted by Mrs. J. C. Dea, and Mrs. Morris, has been acquired by the directors of the Nelson General Hospital as a first step toward the establishment of that much-needed institution.

holiday Mr. Walker will continue as superintendent at Nelson. No decision has yet been arrived at by the New Westminster council as to the type of incinerator to be adopted. Twenty thousand dollars is available for this establishment having been voted last year. The matter will be left for the incoming council to deal with.

Joseph Thompson, who has been held for some time at Prince Rupert, in connection with the death of Thomas Walsh, has been restored to liberty. Evidence was offered at an all indicting trial that the post mortem was due to heart disease. Four of the men connected with the burglary at James Dresser's dry goods store in Vancouver have been sent to the penitentiary for long terms. Taylor and Taylor are to do five years, Palmer will serve seven years, Jammer received his sentence with a bearing, and both Pearson and Taylor were sentenced to three years.

New Westminster's Conservative association has elected Hon. J. H. McLeod and John A. Lee as its president and vice-president, respectively. H. L. Edmonds, president; D. W. Glenister, vice-president; D. E. E. Fader, vice-president; G. S. Blakely, treasurer. The wedding was solemnized at Huron Lodge, Vancouver, of Miss Pearl M. Keary, daughter of W. J. Keary, and Mr. J. H. Fraser, of the firm of Fraser & Fraser, of Vancouver.

An important announcement has just been made at New Westminster. C. B. Foster, assistant general manager of the C. P. R., yesterday advised that the Canadian National Railway will be able to obtain within 10 days a permit to run a branch line from the coast to the interior, via the coast and through the mountains west of Port Arthur. The project is to be carried out by the Canadian National Railway, and the line will be about 100 miles long.

Police Inspector Mulhern, of Vancouver, has returned to that city from Florida, bringing with him as a private employe, a cut-glass decanter and a silver and cut-glass fern jar. Police Inspector Mulhern, of Vancouver, has returned to that city from Florida, bringing with him as a private employe, a cut-glass decanter and a silver and cut-glass fern jar.

Carolee Riffman, while Miss May Messer, stenographer for Mr. P. H. Fraser, real estate agent at 25 Commercial street, Vancouver, was busy at her typewriter about 3 o'clock yesterday afternoon she was "pinned" almost to prostration by a bullet which struck her in the head and buried itself in the wall within a few inches of where she was working. Mr. Fraser, who was working near, also was started and in the investigation found that a 22-calibre bullet had been shot through the wall by the shooting gallery next door. The police were informed but have been unable to find out anything about the reckless shooting, the proprietor of the gallery disclaiming any knowledge of the circumstances. The proprietors were given a warning and the line is to be removed in the future as to the use of the shooting by their patrons.

Eight Hours Underground. Before Justices Thompson and Shand at Vancouver, Thursday evening, a portion of the case against Floyd Tuttle and John Newton, who have been employed underground for a longer space than eight hours, was heard. The case was argued by Mr. J. R. Booker, sprager, and all gave vent to the effect that they went down in the mine at 11 o'clock, and returned at 7 o'clock. The men had a change of shift, and also from fifteen to twenty minutes for luncheon. He then returned to work for two periods of time, the men were actually employed underground for a longer time than eight hours. Mr. Booker, for the defence, stated that the men had a change of shift, and also from fifteen to twenty minutes for luncheon. He then returned to work for two periods of time, the men were actually employed underground for a longer time than eight hours.

G.T.P. Grading at Omicame. The progress on G.T.P. construction in the vicinity of Omicame is very favorable, according to the Omicame Herald, which states that the cuts have been opened on Duncan Road, contract east of town, and more gangs of station men were given work last week. Freberg & Stone will start the tunnel on their contract, about eight miles down the river, in a few days. The tunnel will be between three and four hundred feet long. Right of Moricetown, which will be continued to Moricetown, will be suspended in the valley this winter. Poley, Welch & Stewart's headquarters camp on the Sealy property will be a busy place with the opening of navigation next spring. All of the supplies for two hundred miles east will be landed at this camp and hauled by team from there on Warehouses large enough to hold thousands of tons will be built. A number of buildings for office and accommodations for men will be retained for this part of the work. A branch bank of the Union Bank of Canada will be established, and P. Burns & Company will put in a cold storage plant to handle the meat supply for the various camps.

Opium Smuggler Arrested. Through his linguistic capabilities, Detective Welch of Vancouver, accompanied by Detective Ferry, was able to round up a band of alleged opium smugglers in this city late Thursday afternoon, and yesterday Thomas Hernandez was dragged in the police court charged with selling opium. Hernandez is alleged to be one of a gang which has been taking the drug across the boundary. The two detectives visited 185 Fender street, and there they found four Spaniards in a room. These Spaniards were suspected of having opium. The search of the premises, the two detectives awaited the arrival of Hernandez, whom the Spaniards were assisting to themselves of being the guilty party. When he made his appearance he was arrested and taken to the police station. From the story variation it was learned that the story

held by all was that Hernandez smuggled the lime of the boat in a pair of gun boots. Hernandez was remanded this morning, and will come up for a hearing the first of the week. First Gyroscope Railway. Work has already been started in the construction of the gyroscope railway in America to be devoted to commercial traffic purposes. The line of railway will cross the straits of Juan de Fuca, and will be run by means of water. Spurr tracks will be run to any point where possible, business justifies such extension, or rather a spur track will be laid to every such point. The gyroscope railway the coaches run on the gyroscope. Construction has been started at the lake, according to a statement made today by a New Westminster man from whom we have just returned. He stated that the intention of the building of the gyroscope railway is to connect the line with the coast, and to be ready for business in the coming summer. The gyroscope railway will be run on a double track steam or electric line, and the line will be laid and there being no need to take even steep grades into consideration, the gyroscope as a means of transport is kept on a single band of steel gyroscope is the best method of transport may be maintained, it being declared that in an hour can be kept up as easily as 30.

Rates for Settlers. An important announcement has just been made at New Westminster. C. B. Foster, assistant general manager of the C. P. R., yesterday advised that the Canadian National Railway will be able to obtain within 10 days a permit to run a branch line from the coast to the interior, via the coast and through the mountains west of Port Arthur. The project is to be carried out by the Canadian National Railway, and the line will be about 100 miles long.

Black Iron Sands. The treatment of black sand is one which has received much attention at the hands of the metallurgists and chemists. Fortunes have been spent in the extraction of the iron from the black sand, but so far all methods have failed of perfect success. Magdalen's method is practically the standard method employed, and the trouble does not end with separation, for when the iron sands are dumped into the furnace they clog the pores and prevent the blast from circulating. The furnace becomes frozen. This difficulty has been overcome by the method of the electrolytic process, which converted into a fused mass, the cost is too great to admit of, but the method is being used in the extraction of the iron from the black sand.

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is placed at 86.5 per cent of the metallic zinc contained in the ore. The oxidized ores, both silicates and carbonates, are associated in veins or beds in stratified calcareous rocks. The color is of a bluish green and the appearance frequently is that of a malachite. The ore is of a bluish green and the appearance frequently is that of a malachite. The ore is of a bluish green and the appearance frequently is that of a malachite.

The various iron deposits in the townships of Hull, Templeton, Wakefield, Bristol, Grenville, and others are described in detail and the conclusions reached that many of these would be rich ore which in all probability could be treated profitably in the electric furnace. It is claimed that this method of reducing the iron ores can compete with the blast furnace for the production of pig iron, when electrical energy can be developed at low cost. An appendix to the report gives a synopsis of the water-power resources both developed and undeveloped in the following table can all be developed to produce large quantities of power: Logan Falls, Cascades, Chelsea rapids, Great falls, Coabonga rapids, Roche Fenwick, Calumet Falls, Chiata Falls, Chumet Falls, Chiata Falls.

There has been little variation in the output of chrome in Canada during the last four years. According to the figures given by the department of mines, the total shipments in 1908 were returned as 3,472 tons of concentrates, valued at \$45,300, and 375 tons of crude ore, valued at \$85,000. The shipments in 1907 were 7196 tons, valued at \$72,901. The production in 1908 was larger than in either one of these years, being given as 4025 tons, valued at \$31,858. Figures giving the imports of chrome into the United States from Canada, however, show that more chrome was produced than is shown by the Canadian returns. The chrome is mined in three eastern townships of Quebec, chiefly in the township of Coleraine, at Little Lake St. Francis and Black Lake, by the Dominion Chrome company and the Black Lake Chrome and Asbestos company, both operating under one management.

Recently Mr. John Stenson Brown, of Montreal, resigned the trusteeship of the Canadian Mining Institute, an office which he has held for more than ten years. The occasion was signalled by a banquet and the presentation of a valuable souvenir which might well have been inscribed, "To a Faithful Servant." Mr. Brown was an old-time member of the Quebec Mining Association and soon after the federation of all the provincial branches into the Canadian Mining Institute he was appointed treasurer. I think the credit for his nomination belonged to the late Mr. B. T. A. Bell. In any event, he as secretary and treasurer worked shoulder to shoulder for the success of the Institute, and although they are not always seen eye to eye, even Mr. Bell warmer than or more loyal secretary than Mr. Brown.

These were the days of financial stringency when the Institute was supplied with funds, and the latter of which, in his own mind, he thought might be the inevitable demands of the methods and financial ability enabled him to tide over this period, and when, ultimately the various provinces (all excepting British Columbia) came down with a handsome subsidy, the year passed and a period of comparative plenty followed. Ten years is a long time for one man to discharge the very onerous duties of treasurer to an institution which covers the whole of the Dominion, and no one can blame Mr. Brown for wishing to hand over the reins to a younger man. He does so at a time when the Institute is flourishing and in funds, and his successor can be sure of a better time than he himself had to contend with years ago.

While mining men are always appreciative, they are not usually demonstrative and the tendering of a banquet to Mr. Brown may be taken to indicate a very high estimate of the value of his services and of his personality. The many Victorians who had the pleasure of meeting him when he was in Victoria last year will readily understand the action of his conferees. Mr. Brown is still in the prime of life and it is still in his power to wish him long life and happiness.

The Mining of Oxidized Zinc Ores. Oxidized zinc ores in Southwestern Missouri, occurring at shallow levels from the grass roots down to 100 feet, are mined under the common name of silicate, though much carbonate is produced. Until recently the silicate industry has played so insignificant a part in the lead and zinc mining operations of the Joplin district, Northeastern Missouri, and Southeastern Kansas, that comparatively little attention was paid to it by operators who are inclined to mine on an extensive scale. As a result extensive developments of this class of mines was not encouraged. Gradually the mining of silicate is growing to be recognized as an industry with an inconceivable future, and more capital is being invested in this department of local operations. The concentrating plants, modern and thoroughly equipped, are taking the place of old hand jig outfits with but a trace of the silicate dressing had been accomplished.

Some of the California deposits are quite thick. Incorrectly the word calcamine is used to include both silicate and carbonate ores, and in the recent zinc ore tariff controversy, 1 cent per cent being placed on the 1 per cent of zinc ore, the word calcamine is construed to cover both silicates and carbonates which abound in the Mexican mines and which constitute the bulk of the zinc ore companies in California. The latter declare calcamine to be only a silicate ore and a separate and distinct mineral from the carbonate. The former is a decomposition product of calcamine, in which the predominant element is silica. It is usually a mixture of silicate and carbonate, and is treated for reduction to silicate in a distillation furnace. The residue, which is a mixture of silicate and carbonate, is then treated with a solution of sodium carbonate, and the silicate is dissolved and mixed with the roasted ore, and then mixed with some zinc oxide, and the mixture is blown in it in the form of an oxide fume, which is condensed. The fume is then mixed with a solution of sodium carbonate, and the mixture is blown in it in the form of an oxide fume, which is condensed. The fume is then mixed with a solution of sodium carbonate, and the mixture is blown in it in the form of an oxide fume, which is condensed.

Carbonate of Zinc. The composition of carbonate of zinc is 48.1 per cent zinc, 51.9 per cent oxygen. The silicate contains 44.8 per cent zinc, 55.2 per cent oxygen. The carbonate is the most valuable of the zinc ores, and is usually underlain by silicate. The silicate is the most abundant of the zinc ores, and is usually underlain by carbonate. The carbonate is the most valuable of the zinc ores, and is usually underlain by silicate. The silicate is the most abundant of the zinc ores, and is usually underlain by carbonate.

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