e of one or the other method will dee of one or the other meanon. I de upon the question of economy. I te the liberty of sending you a copy of which I recently contributed to sper, which I recently contributed to Engineering Magazine, in which e suggestions are made regarding thinery for economically cleaning the l. Such machinery is in use in Eng., but I consider the improvements the adaptation at Hamburg, Gervan to the worthy of the consider the consideration at Hamburg, Gervan the constant of the y, to be worthy of our considerat he arrangement for your filters does not allow of the best hod to be applied for preventing finely suspended matter and bacis at times to pass through the sand, is is due to the fact that in your case pressure of water upon the filter beds not constant; by its variation susded matter is likely to be forced

ough the sand. is customary now to arrange the s so that there will always be a con pressure; that is, a head varying the accumulation of silt, no matwhat the delivery or rate of filtramay be. But this requires more d to be at your disposal than seems be available in your case, at least ler present conditions. Such apparss are mentioned also in the paper are mentioned also in the paper re referred to. On account of the litions now existing in your case at he necessary to be necessary to exercise more care he supervision of the water shed the amount of objectionable matter chenters the water will be reduced ch as practicable before it reaches

RUDOLPH HERING.

HEARD IN THE HOTELS.

Business may not be in very good pe in British Columbia, but things far worse in the East," remarked F. Claxton just arrived from ntreal and Toronto yesterday. "Why, wholesaler told me that they were ing to our province to help them out year. Businiss is, and has been, for months, owing very largely to uncertainty as to tariff matters. st, the fact that the Laurier govern-nt had made tariff reform a plank in platform, and secondly, the elec-of McKinley as president, have de the business outlook pretty blue. bre is a feeling of insecurity that is pering trade, and until the exact are of the changes in the Dominion is known merchants do not look any better times.

But one thing strikes you very fory in talking with business men in East, and that is they are beginning ecognize the possibilities of British umbia as a field for investment and market for all kinds of their goods. woollen mills seem to be particularly in hit, as a number of them have been apelled to assign, and the big failure the McMasters in Toronto shows that n some of the largest houses are un-e to stand the strain. This latter iness was supposed to have had a plus of over half a million a few years and yet the creditors are not likely et over 70c. on the dollar. In fact, the wholesalers state that they have money during the past few years, that the uncertain trade at present kes matters still worse. A gentleman Montreal told me that they had sed through some pretty hard times, he had never known things to look cloomy as they do at present.

Interest in our own mines is our n, but owing to the number of stocks ring very few sales are taking place. Interest in our own mines is still terners are beginning to look for dends and even the War Eagle stock the Gooderham syndicated had as ned control has gone back a peg or , and is now sold at about par. This result of profit taking—those who in on the ground floor unloaded large as soon as there was a good profit ight. And so with other stocks—peo-are looking for dividends."

. H. Prossor returned Saturday from sit to the Kootenay cities and reports eedingly rough weather. At Rossd Mr. Prossor accepted on behalf o npany the new machinery for the Alto, and saw the work of installawell under way. It is expected by this time the machinery tion. Two gangs of men have been byed and it is the intention to push pment work night and day ng in the shaft continues to be all ould be desired. Both the Palo and the Nest Egg are most favor-commented on by everybody who essed an opinion on the matter. A of men are at work on the Nest There are a large number of idle in all the Kootenay towns, but it is ed that good, practical miners are omparatively employment at \$3.50 per day. The of men as a rule who are out of are those who, although willing to heir hand to anything, have tical knowledge of mining. Both an and Kaslo are "full up:" at the place Mr. Prossor had difficulty etting a bed, every room at the ho-being occupied.

rgeant Elliott of the Fiji Island pos at present staying at the Dominbeing on a pleasure trip which will ably include a tour of the coast ci-The trip from Fiji was made in a ig vessel to Port Townsend, from point Sergeant Elliott came over toria. The islands, which are on oute of the Australian lines-Suva, apital, being a point of call—sup-a population of about 82,000, of h, however, only 4,000 are whites, najority of the inhabitants of the being natives, who not so very ago were classed as the greatest bals of the Pacific. The police of Lambossa, of which Officer Ela member, consists of twenty natrolmen, over whom are six white als. The principal offenders against and order are the East Indians, of there are nearly 12,000 on th

E RESCUED RECOVERING.

w York, March 20.—The condition ptain Berri, one of the survivors of . Nazaire, was said to be much imd at the Hotel Martin last night. able to be about his room and has some liquid nourishment. The tion of Dr. Maire and Engineer was alse said to be greatly im-1. Dr. Albaraz, who was in atte upon Juan De Dios Tejada, said his patients' hands and feet were in from long exposure to the cold lit water, that his fever was high, covery was probable

ARE THE RACES AKIN?

Three Parties of Scientists Shortly to Pay a Visit to the North Pacific.

al relations between the races of America and Asia and is intended as a contribution to the solution of that question.
To this end three parties will be sent
into the field. One will work on the coast of the Okhotsk sea, another will explore the west coast of America, and

explore the west coast of America, and the third will be stationed at the northern part of the Behring sea.

The start will be made early this spring. Dr. Boas will personally conduct the West American coast party, and will be assisted by Harlan I. Smith, an attache of his department in the museum. His other assistants will be employed on the field. About four months will be deveted to that no firm months will be devoted to that portion, months will be devoted to that portion, and then the party will conduct further explorations along the Amoor river, in Siberia. It has not yet been determined who will conduct the other two

but the only contribution that can claim any great scientific value is that of

will be commenced this spring in fields bill.

that have heretofore remained unex
A report from the streets committee, plored, and will be continued as long as recommending that five cents a foot be

coast is occupied by a variety of races. coats at The same is true in America, where, in \$6.25 ea the interior, we find a vast sweep of country inhabited by one people, while the diversity of languages and races on the coast is almost incredible.

"The difficulties of the problem will be better appreciated when it is attached."

SPORTS AND PASTIMES.

be better appreciated when it is stated that between Columbia river and Beh-

Years to Be Spent in Quest of Data
Showing the Relationship of
Asiatic and American Races.

The details of the expedition proposed by Morris K. Jesup, president of the American Museum of Natural History, for the exploration of the coasts of the North Pacific ocean and the study of the races living there have been given out by Dr. Franz Boas, assistant curator of Interchange of the County of

history of the American race.'

ESTIMATES PASSED.

"Our knowledge of the ethnology of the Pacific coast of Siberia is largely based upon the reports of early travelers, steller's description of Kamtchatka supted to-day."

Steller's description of Kamtchatka supted to-day. at a cost of \$400 and \$300 was recom-mended by the fire wardens, who also

any great scientific value is that of Schrenck on the peoples of the Amoor.

The mythology of the whole region is practically unknown.

In addition to this the fire wardens recommended that tenders be invited for five fire hydrants, a hose, 500 feet of practically unknown.

In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining the control of the second of the second of the second of the control of the second o

in British Columbia have been carried on for a number of years under the auspices of the British Association for the Advengement of Science had been carried in connection with Point Ellice bridge in connection with the accident. This pices of the British Association for the Advancement of Science, but much rewas laid over, some of the aldermen ins to be done.

Work on the Pacific coast of America on the subject before dealing with the

important gaps in our knowledge of the ethnology of the coast remain to be sidewalks was adopted and the by-law to filled. The regions in which investigations was read a first and a second time. are to be carried on offer peculiar diffi-culties on account of the multitude of awarded to W. D. Kinnaird for consta-While almost the whole of Si- ble's uniforms at \$20 each; Creighton beria is inhabited by tribes akin in lan-guage and similar in type the eastern coast is occupied by a variety of races. coats at \$25 each; J. T. Burrows, over-toost is occupied by a variety of races. ch. The tenders for nails and

HOCKEY. PREPARING FOR THE FRAY.

Increase of the expedition proposed by Morris K. Jesup, president of the American Museum of Natural History, for the exploration of the coasts of the North Pacific ocean and the study of the races living there have been given out by Dr. Franz Boas, assistant curator of the Anthropological department of the minuseum.

The main object of the expedition is to investigate and establish the ethnological relations between the vector of the claims located in the legislature yester and the legislature yester and the study of the care indications that has yet been made. This due to the careful extent American and Asiatic ideas influenced each other.

The main object of the expedition is to investigate and establish the ethnological relations between the vector of the claims located in the legislature yester and into legislature yester and the unit of the claims located in the legislature yester and the legislature yester and the legislature yester and the study of the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet by Hon. Col. Baker is by far the most complete one of the kind that has yet were visualable."

A large proportion of the claims located to the valuable.

A thereis no control in the legislature investigate and establish the ethnologic- of the obscure points regarding the early report, not merely a dry gathering together of statistics, but a comparative showing of the growth of the industry in British Columbia that cannot fail to im-

press anyone who peruses the report.

As Mr. Carlyle has adopted the sensi-As Mr. Carlyle has adopted the sensible plan of issuing bulletins as promptly as possible after the information has been gathered, instead of only making a yearly statement, this present report, while it contains much that is new, also has the bulletins already issued to the public some months ago on Alberni, Trail Creek, Slocan, Nelson and Ainsworth districts, and the short comparative statement issued a few weeks ago on the mineral production of British Columbia, which was \$7,146,425 for 1896, against \$5,655,302 for the previous year.

and then the party will conduct Turther explorations along the Amoor river, in Siberia. It has not yet been determined who will conduct the other two parties.

By far the most important question to come before the city council last night the exploration can be accomplished in about six years, Mr. Jesup has set no limit to the time which must the coasumed and here declared his interior.

Columbia, which was \$7,146,425 for 1896, against \$5,655,302 for the previous year. It is pointed out that the organization of the bureau of mines—begun under authority of the legislature in January, 1896, by Mr. W. A. Carlyle, M. E., protical mineralogist, and Mr. Herbert Beaver lake filter beds. Mr. Hering also sent in a bill for \$150, the amount at

of the second and has desired his institution of the second hi

Bowron stating:
"Very much interest has been e gendered in our quartz mines during the season, presumably in consequen of the proof that our ores are adapted the last century and of the beginning of this century have furnished us with board for the fire alarm, two fire alarm strated beyond question. Be this as it may, never before has so much confi-dence been manifested in our ledges as

actically unknown.

"On the American side our informans is somewhat fuller. Investigations British Columbia have been carried.

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"On the American side our information is somewhat fuller. In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the various mines, a nose, 500 feet of In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the various mines, a nose, 500 feet of In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the various mines, a nose, 500 feet of In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the various mines, a nose, 500 feet of In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the various mines, a nose, 500 feet of In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the various mines, a nose, 500 feet of In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the various mines, a nose, 500 feet of In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the various mines, a nose, 500 feet of In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the various mines, a nose, 500 feet of In his report of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the cariboo feet of the Keithley division of Cariboo, Mr. W. Stephenson, mining recorder, refers to the cariboo feet of the cariboo feet of the cariboo feet of the cariboo feet of the c among them the Cariboo Hydraulic Co.'s lease which turned out \$127,000 for

Mr. James Porter, gold commissioner for Cassiar, says:
"There is plenty of quartz known to exist here, and I do not see why some of t should not be sufficiently rich to pay. So far but little attention has been paid to this place, and I honestly believe that f prospecting was turned in this direction that something of importance would be discovered. Some good openings are also here for hydraulic mining, and it is my honest opinion that if some attention was paid to this sort of mining that it would prove to be a good investment."

Mr. Carlyle himself makes a report on East Kootenay, the result of a short

trip there last season. He says:

A short examination was made of those parts in East Kootenay where but with the exception of mines such as the North Star, Moyie Lake mines, and the placer mines on Wild Horse creek, little work other than assessment work PREPARING FOR THE FRAY.

was being done. However, in the southern part of Fort Steele district the pros-

Alaska and British Columbia to the other North American Indians, although not quite clear, are certainly very intimate, since a gradual transition of the North American indians, although not quite clear, are certainly very intimate, since a gradual transition of the North American investigation of the North American Indians, although not quite clear, are certainly very intimate, since a gradual transition of the North American Indians, although and the properties have been discovered and developed, and many locations have been made, which work will greatly enhance in value and importance. Hither to means of communication have been were larged one during the summer has been nance in value and importance. Hither to means of communication have been such that considerable time had to be consumed in reaching any part, and dustry From Official Sources.

Something About the Districts Not Dealt With in Earlier

Bulletins.

Something About the Districts Not Dealt With in Earlier

Bulletins.

Bulletins.

Bulletins.

Something About the Minister of East Kootenay, the division of East Kootenay is on the eve of receiving much greater interest, with every probabily reduce the cost of treating the ores. A large proportion of the clear to navigable in the district are adjacent to the Straits of Georgis and Fraser River. The amount of peoplet to means of communication have been made, which work will greatly enhance with and eveloped, and many locations have been made, which work will greatly enhance with the Straits of Georgis and Fraser River. The summer has been made, which work will greatly enhance in value and importance. Hither to enance in value and importance. Hither to enance in value and importance. Hither to enance the many locations have been discovered and many locations have been discovered and many locations have been discovered and eveloped and the value and importance. Hither to expect in the extent of the extent of the establishment work will be done during the continuation of access, but with a more extended s

Total output for the year 1896... 894,882
mineral claims were recorded during the syntax and 367 free miners certificates issued. The Van Anda, Victoria, Raven, 6. Silver Tip, Lorindale and Nutcracker on Texada island, are mentioned, and other claims on Thurlow, Valdez and Channe islands, and the satisfactory progress made referred to.

Of Victoria districts, Mr. W. S. Gore reports:

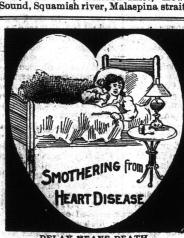
"This is the first report of the kind that I have had the pleasure of presenting. Heretofore there have been but the coast, and the claims which had been recorded were not prospected with any been issued where the coast, and the claims which had been regratifying to note the comparative magnitude and importance of the past year's transactions. I have also appended a complete detailed list of all the crown arrains for mineral claims which have been issued by the government up to the date of this report, which will be a matter of public interest and convenience, as will also be the list of gold commissioners and mining recorders, which is annexed:

Total output for the year 1896... 894,882

The export in 1896 was 634,237 tons.

Attention is directed to the growing market forcoke in the province, due to the growing darket for coke in the province, due to the growing darket for coke in the province, due to the synthese strile and the province of the color and the Union colleries can supply all the province, due to Uni

lake, Pitt lake, Burrard Inlet, Howe and the Mongolian tribes of Asia by way of Behring Sea.



that between Columbia river and Behring for the Well Frank.

The first lot of sticks (two dozen) for the Victoris Hockey Club has arrived in the Cabot celebration in Halifax next June.

Cure.

The first lot of fort Steele district the prosphate H

Value of mineral output, \$154,427, an increase of 779 per cent. over the year before.

In the report on the Revelstoke, Illicillewaet, Trout Lake and Lardeau districts, which were not touched on the previous bulletins on West Kootenay, the various mines are referred to, showing that a lively increase has been made in mining progressed during 1806.

COAL MINES.

The report of Mr. S. Dick, inspector of mines, gives the output as:

Total output for the year 1896:.. 894,882

combe; the treasurer, Carl Lowenberg; the librarian, R. E. Gosnell; and the curator, O. C. Hastings.

At the close of the election of officers, Rev. Canon Beanlands referred to the with any certainty respecting the actual value of these mining properties. Generally the rock is low grade, but reports of assays in sevaral cases have been very encouraging; some of the claims located on Harrison lake having shown over \$200 in gold to the ton. The mineral locations are spread over a large area, including Harrison lake and river, Glacier lake, Mission, Chilliwack, Suman, Stave lake, Pitt lake, Burrard Inlet, Howe Starm, and the Mongolian tribes of Asia by way

of Behring Sea.

The evidence of common origin was so striking as to form a basis for the conclusion that an actual discovery of importance had been made—that is, that a new source of evidence in support of a pretty well accepted classification of our coast Indians as Mongoloids had been discovered. The subject was considered discovered. The subject was considered discovered in the subject was considered discovered in the subject was considered discovered. The subject was considered ment. to be well worthy of further investiga-

Preliminary arrangements were made last evening for organizing another dredging expedition, and for a lecture by Mr. J. W. Laing on Vancouver Island, o be held under the auspices of the of the society feel reason for congratulating themselves upon the prosperou condition of its affairs, and the unanim ity which prevailed is a good omen for the success of the society during the coming year.

One Dose Relieves—A Few Bottles Always
Cure.

OTTAWA, March 22.— (Special) — The city council of Bristol, England, has nominated two of its members to attend

SUCCESSFUL GROWERS The STEELE, BRIGGS SOLD BY ALL ADING DEALERS IN CANADA



STATE ORE P. S. BAILY, Prest.

Dated the 12th day of February, 1897. e24 JOHN JOHNSTON.

NOTICE—Sixty days after date we intend making application to the Chief Commissioner of Lands and Works for permission to purchase one hundred and sixty (160) acres more or less, of land situated on Clio Bay, Douglas Channel, Northwest Coast, and commancing at a stake marked S. S. Corner Post, thence, due north 40 chains; thence west 40 chains; thence in an easterly direction along the Coast line to point of commencement.

I. M. L. ALEXANDER. GEO. RUDGE.

Victoria, 23rd February, 1897. NOTICE—Sixty days after date we intend making application to the Chief Commissioner of Lands and Works for permission to purchase one hundred and sixty (80) acres more or less, of land situated on Clio Bay, Douglas Channel, Northwest Coast, commencing at a post marked S. E. Corner, adjoining the S. W. Corner of I. M. L. Alexander and George Rudge's land, thence north 40 chains; thence west 40 chains; thence south 40 chains; thence west 40 chains; thence south 40 chains; thence along the Coast line to point of commencement.

JOHN FLEWIN.

GORDON LOCKERBY.

P. CALLAN.

Victoria, B.C., February 23, 1897.

1629-18