OOL COMPETITIONS

By Large Number at Exhibiis Morning-Good Races.

ronged the grounds adjointion buildings this morning, on being the children's sports. ced at about 10 o'clock, Park, Central, North Ward, est and Spring Ridge scho sentatives present to take competitions. Be dals offered the winners in events, every first and second and two points respectively is represented by the victors. e totalled, and, when the long itions are decided, the insti ing the largest number of e presented with the Swiner. rophy given by the secretary

greater part of the forenoon Park boys took the lead, fol-ly by the Central school athn the vaulting was reached poys were ahead, the score 20 points to 24. From this on Central school commenced ning the relay race and the first place, the standing bevs: Central, 28; South Park, Vard, 11; Victoria West, 6. the most exciting of this ents was the jumping com n to any pupil attending the schools. The principal con-re Guy Morley, Central bert, Thompson and W. Kenth Park, and M. Seabrook, These four stayed with til it had reached 4 feet 6 and left Messrs. Mortey and th struck the bar in the first the second Morley cleared le, the feat being loudly son tried again, but was

were no less than ten The number gradually however, until there were -Messrs. Pauline, Gregg They all failed to clear It was raised for the last contest was therefore deeach school represented be-

relay race which attracted ention. Teams were enter-South Park, North Ward schools as follows: South Thompson, Briggs, Ellice North Ward, Messrs. Seabrook and Cox; Con-Bergman, Roberts and Nes as very interesting, although a comparatively easy vi ners crossed the line in Morley, of the Central, Read-North Ward and South Park qual distances separating

, and some of those for boyn ears of age were specially well

ne hundred yards, dash (open) Morley, Central school; 2, W. Ward school; 3, Herbert

South Park. ne hundred yards, dash (boys ears-1, W. Meyer, South . Heaton, North Ward; 3, dis ssrs. Pauline and Elworthy, ate and South Park schoo's. e hundred yards, dash (boys. -1, Clifford Carrol, Victoria atthew Scott, South Park; 3, Central.

rs)-1, Guy Cavin, Central; 2, Macdonald, Central; 3, J. Belh Park. One hundred wards, dash tuns)-1, Allan Danes, Centrai; 2,

One hundred yards, dash (un-

igrew, South Park: 3. Chas. two hundred and twenty

(open)-1, Guy Morley, Cer erbert Thompson, South Park; x, North Ward. Two hundred and twenty yards. ler 14 years)—1, W. Meyer, rk; 2, P. Heaton, North Ward;

Elworthy, South Park. Two hundred and twenty yards, ler 12 years)—1, Clifford Carrol, West; 2, Matthew Scott, South Cyril Baker, Central. wo hundred and twenty yards, er 10)-1 Ed. McB. Smith. rk; 2, Harry Walton, central;

ord, South Park. —High jump (open)—1, Guy Central; 2, Herbert Thompson, South Park and North Ward -High jump (under 14)-1, F.

ne, Collegiate school; 2, Allan outh Park; 3, C. Catterall, Cen--Relay race-1. Central school; Ward; 3, South Park.

13-Throwing the baseball-1, lev. Central school: 2. McKitntral school; 3, W. Cox, North

NN'S ACADEMY EXHIBIT. ractive Nook at the Exhibition Building.

thstanding the on Tuesday and Wednesday, thronged to the exhibition eager to get a sight of the novel esting things to be seen on the One particularly attractive istic corner, the St. Ann's booth, drew an appreciative who were lavish in their praises ork exhibited. It covers five epartments: An educational and bit, fancy work, music and comwork. The educational part, mary to senior class work, runs erature and rheforic, mathemasics, astronomy and botany, rawing, bookkeeping, German, and Latin, nature lessons, free rawing, all the pupils' work, and th a skill that reflects the greatdit on teachers and scholars y fine charts are those on geotronomy and botany, while the d story writing matter and busisocial correspondence, certainly

(Continued on Page 6.)

## CEMENT WORKS ON SAANICH II

## A QUARTER OF A MILLION DOLLARS BEING SPENT ON INDUSTRIAL ENTERPRISE NEAR VICTORIA

CROSSING COMPANY'S ROADWAY.

ortland cement second to none made in

For years a lime kiln was operated on

300 feet by 210 feet. The little lime

which follow in the development of this

Although it was not until this spring

that it was fully decided to erect the

cement works, the presence of the proper constituents on Tod creek has been

An attempt was made years ago by the

parties interested, including Mr. Fisher,

who had cement works near Vancouver.

to interest capital in the Tod creek de-

posits. Mr. Butchart, the managing

frector of the company now about to egin manufacture, was approached on

fully occupied with similar enterprises in Onfario. He did not, therefore, take up

he proposition for some little time later.

The present works are the result of his

Mr. Butcuart's success in the manufac-

ture of Portland cement in Ontario augurs well for the enterprise with

which he is identified in this province.

foreover the intention to make Victoria

is permanent home is a subject for con-

managing director, a position which he

still occupies. Starting with a small pro-

luction the output has from time to time

n twelve or fifteen years has sprung up prosperous little village with all the

modern improvements, including perman-

Later, Mr. Butchart and a number of

ow Lake property organized another

ess has attended those interested.

pany, and began operations at Lakefield in Peterboro county. Here, similar

interested with him in the Shal-

increased. About the factory with-

had his attention

ntry's natural resources.

known for some time past.

ctive connection with it.

at present throughout the whole prov- shipment by water to all markets, and

since, and that the machinery to be installed and the raw material available at the works are capable of producing a works.

England, Germany, France or the United States.

There is also a practically inexhaustible supply of the raw materials used in the manufacture of the cement. There

about fifteen feet square and twenty feet thigh alongside of the extensive buildings now in course of construction which the site of the new cement works. It clay. Nature has done its part for the

oughly speaking cover an area of about that after visiting all the principal Portone feet by 210 feet. The little lime land cement factories in England, Ger-

the cement factory, the two constituting one example of the many evolutions which follow in the development of the many evolutions which follow in the development of the many evolutions which follow in the development of the many evolutions which follows in the development of the many evolutions which follows in the development of the many evolutions and clark the first the first three many evolutions are the first three many evolutions and clark the first three many evolutions are the first three many evolutions and clark three many evolutions are three many evolutions and clark three many evolutions are three many evolutions and clark three many evolutions are three many evolutions and clark three many evolutions are three many evolut

GENERAL VIEW OF THE CEMENT WORKS, SHOWING BUILDINGS, PART OF WHARF, UPPER

PART OF TOD CREEK. THE OLD LIME KILN IS SHOWN WITH OVERHEAD WAY FROM QUARRY

There is also a practically inexhaus-

are limestone and a certain quality of

these raw materials. Mr. Butchart says

stone and clay so admirably situated relaitvely for economical manufacture.

Quality of Materials

The qualities of the clay and limestone

are acknowledged to be the very best for

the purpose. An analysis of them show that they are specially adapted for pro-

ducing a high grade of Portland cement

so that the Vancouver brand, the name

under which the product will be put on the market will be such as to compete

successfully with the best English or

American brands. Proof of this is found

in the opinion expressed on them by

eminent manufacturers. Among those to

whom samples of the raw material were

submitted was E. Bravender, general

manager of the Hudson Portland Cement Company, one of the big factories of the

United States. Mr. Bravender is recognized as an authority on the subject, and

his opinion is considered of the highest

ness. The analysis made by him of the

value among those engaged in the busi-

clay and lime rock was as follows:

NKOWN to all but a few residuate of this city, works are being erected on. Tool creek works and first the company, and who is good the proposed of the works and control of the proposed of the company, and who is provided to the company and who is provided for the first that the first the control of the first that the first that the first that the proposed of the works and control of the first that the first the first that t

connection with the carrying out of this great obstacle in the way of beginning and a large staff of Chinese have been work on the part of the managing operations was the limited market which kept constantly on the premises. There

the property was put in operation and thousands of barrels have been utilized in the walls. Before all the work is done 4,000 barrels will have been consumed construction work. The rock was found close at hand, being blasted out for the purpose, and only the fine gravel had to be brought in by scow. The walls were put up of this concrete to a height varying from ten to twenty feet. About ten feet of lattice work is pu in between the top of the concrete walls and the roof in the buildings devoted to manufacture. This will afford ample ventilation. Everything connected with the arrangement of the works is done with the purpose in view of facilitating the mical handling of the product. The clay and lime rock deposits ar

situated much higher than the works. The two ingredients lie alongside one another so that the same tramway may be utilized in conveying them to the factory. At the commencement a face of about sixty feet each of rock and of clay will be available. Only a few hundred feet from the face the materials will be dumped into a drying room, which is yet to be built. This will be 56 feet by 30

After being dried the materials are crushed to a fine powder, and after being scientifically tested by samples in the labratory are mixed together in the pro-The Rotary Kiln Building.

They then pass through the machinery of the rotary kiln building. This is the largest structure of the group. It is 168 feet by 60 feet, that entire space being free from all pillars of any kind. The roof as in all the other parts is supported by heavy trusses, which have been framed and braced by using heavy timber and iron rods, and then elevated to their place on the tops of the walls. The walls of this building are 29 feet high at the eaves, the perpendicular height to the ridge being 54 feet. The concrete walls extend up to a height of

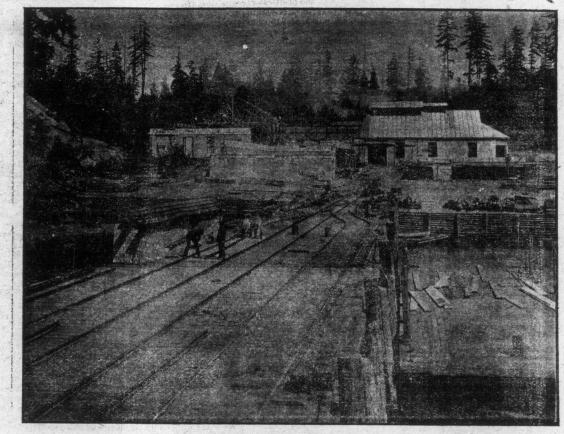
provided for them.

The Power Room In addition to these buildings there is

be provided with every convenience in the | material, will produce cement unexcelled way of water, etc.,
A well macadamed roadway has been

OWERMENT SOME WAS AND THE SOME OF THE SOME

by anything which can be imported. It



VIEW OF CEMENT WORKS AT TOD CREEK, SHOWING PART OF WHARF WITH THREE LINES OF RAILS LAID AND BUILDINGS IN COURSE OF CONSTRUCTION. THE WALLS ARE COMPLETED AND ROOFS ARE BEING PUT ON.

director of the company, R. P. Butchart, who has full charge of the operations. The enterprise is none the less important, however, on this account.

One reason why so little has been pushfolden away in the bushes near the following will during June. It has been pushfolden away in the bushes near the plane for carrying out the stock is all held by residents of the East, and the plane for carrying out the scheme were decided upon in Ontario.

That the Vancouver-Portland Cement Works are destined to be an important element in the industrial life of British Columbia may be inferred when it is about two miles and a half form Keating station on the Victoria & Sidney railway. It terminates in an inconstant of the property in the property to work beginning.

The anterior of the company, R. P. Butchart, the province offered. He visited the province of the containt of the province offered. He visited the province of the operations, the province offered the operations, the province offered. He visited the province of the containt of the province of the power is generated. A coal house 80 feet base in the field will fill the bushes near the original pull revised by passing through the prover is generated. A coal house 80 feet base in the prover is generated. A coal house so the factory. Fronting this and between the power is generated. A coal house so the factory with a fill filled with a dameter of 7 feet. This is in seed as a finely ground dust, and the company will purchase the chian supplied and provide on the factory. Fronting this and between the prover is generated. A coal house of the filled will be fore the decided this s

Columbia may be inferred when it is known that the investment represents over a quarter of a million dollars, that the initial yearly output will be over twice as much as the amount consumed at present throughout the whole property in the buildings is of an other property and others are temptored in the investment represents the same of a million dollars, that the investment represents the buildings is of the mixture is perfected. During the buildings is of the property and others which have been made to serve as bunk factured being manufactured by the mixture is perfected. During the buildings is of the property and others which have been made to serve as bunk factured being manufactured by the buildings is of the place.

Yancouver-Portland Cement Works. The property and others which have been defect upon the buildings, and a conveyer will carry to the property preparatory to work beginning. A heat of 3,000 degrees is attained by the buildings, and conveyer will carry to the mixture is perfected. During the buildings is of the place.

Yancouver-Portland Cement Works. The property and others which is only a short distance from the buildings, and conveyer will carry to the mixture is perfected. During the buildings is of the company's wharf. This permits of the place.

The Water Supply.

The company has acquired 400 acre of land in the neighborhood of Tod in the fact that the company which conreek. Up the stream, which flows into trols the rights for Canada for the manuthe harbor from Prospect lake, a dam has facture of litholite have expressed a been built, and a flue brings the water to readiness to begin operations in Vicwithin about 1,600 feet of the buildings. It toria. Lithelite is the product of a pro-By pipes it is brought the remainder of cess by means of which artificial stone the way, and a never failing supply of is made with coment and saud as the water for use in the mills and for fire basis. The stone is moulded in any protection is afforded. At the works shape or design and the blocks are made there is a head of 100 feet by this sup- hollow or solid. Any variety of stone ply. For drinking and culinary purposes can be imitated in color or texture, and a spring will be used, which is only a the artificial article possesses in addition short distance away and situated on the company's land. A gang is clearing the lit has been found to resist the effects of place preparatory to putting in a reser-tor and conveying it to the places where ter than any other material. No crumbl-

ten miles. The Management.

As previously mentioned, the direct Butchari, the managing director, who intends making Victoria his home. The president of the company is E P. W. president of the company is E. R. Woods, who as a director of the Grand Trunk Pacific was in the city a few weeks ago, and who then visited the works at Tod

when operations are ready to begin, probably about Christmas of this year, an office will likely be opened in Victoria with the works by telephone. When that is done Mr. Ross, the treasurer of the corporation, who is the city also, and take oversight over the business. Mr. Ross is a young man, but toria is being hurried to completion. The has had a wide experience in business in Toronto before being assigned his present

The Market. The cement is conveyed from the mill In view of the fact that only about room to the stock room, which is 128 47,000 barrels of Portland cement were feet by 60 feet, and is right alongside of used in the whole province last year, it of the product will have to be kept down it. Bins are provided here for storage purposes. The capacity of it is 25,000 barrels, which is over half the quantity works has been. The yearly production at the entire province of British Columbia last year.

In the storage room machinery is to be installed which will do away with considerable handling.

be inaugurated. Auxiliary Enterprises.

Already an example of this is found required.

At Sooke water power has been to warp out of shape. Already litholite acquired for the generating of electricity. is being extensively used in Chicago, There has been 2,000 horse power there where a large works turns it out. In the acquired, and later this will be transmit-ted to the works to be utilized for power readily believed, will become particularly and lighting. The distance from the sook station to Tod creek will be about tensively manufactured there, the buildings using it presenting an imposing and

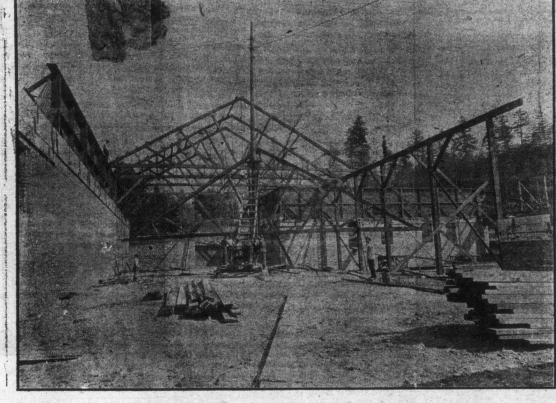
massive appearance. Already the machinery is arriving at the works of the Vancouver-Portland pany's wharf. This is being unloaded, and immediately the roofs are finished and the preparations are made inside the buildings the equipment will be installed. More cars of machinery are on the way to the works.

Immense quantities of brick and timalongside of the works, one of the most important industries connected with Vicpromoters have shown commendable faith in the province by locating here The management realizes that even with a perfect cement and the additional inducement for its use from the fact that it is of home manufacture, that the price

installed which will do away with concerning cannon balls the cement is reduced to a fine powder. It is then the finished product and ready for use.

The Offices.

In addition to these main buildings the company buildings the company composed of practical business men of the East, realize that British Columbia will make rapid strides within the next few years. They have every confidence in the promise of the main basis of the market. The wash, stating Ross had verbal authority.



ING. THE SPANS ARE 60 FEET IN WIDTH. THE MILL ROOM 80 FEET WIDE IS ALSO SHOWN, SEP-ARATED FROM THE FORMER BY A ROW OF POSTS.

ratulation to the city and to the provce. Mr. Butchart is very prominently entified with the history of the manuture of Portland cement in Ontario, and, therefore, in Canada. Only within recent years has this become an industry in Canada. Among the first to be stablished was the Shallow Lake Works ear Owen Sound in the county of Grey. The operating company has had a very successful history with Mr. Butchart as 

Appended to his statement of the analysis Mr. Bravender adds the following: "The raw materials are almost free from magnesia. The two materials properly combined should make a cement as near an ideal Portland cement as is possible to make, and I am confident you will be able to make a great reputation for the Vancouver brand of cement." The brand is to be named Vancouver. after the explorer, who gave his name to this Island.

being carried out under day labor.

The Wharf.

A wharf equipped in every way to suit the purposes for which it will be used was among the first works completed. It extends for a distance of about 365 feet into the water of this rotary kiln building only by pillars. This ideal little harbor. At that distance out room is 80 feet by 78 feet, and provides a depth of about thirty-five feet of water a clear ground space for the installation is attained. It is a substantial structure of the machinery. In this room the of ample width. A line of railway of standard gauge with parallel switches on and tube mills, where by rotating in either side make three lines of track along the length of the wharf. It is fit-Construction Work.

The construction of the buildings is being carried out under day labor. With

rotary cooler sixty feet long, where by means of cold blasts it is made to leave

The cement then goes to the mill room, which is separated from the cylinders with hard steel balls resembling cannon balls the cement is reduced to a fine powder. It is then the finished product and ready for use.

ing, giving a smooth surface.

PUTTING THE TRUSSES WHICH CARRY THE ROOF IN POSITI ON ON THE ROTARY KILN BUILD-

families spent a pleasant camping hard clinkers.
season, combining pleasure with their The clinkers then pass through a the cylinder in a cold state.

The Mill Room.

in most instances these have pitched is made complete. The product leaves attended in their tents in the woods, and with their families spent a pleasant camping the complete. The product leaves attended to the complete is made complete. The product leaves attended to the complete is made complete. The product leaves attended to the complete is made complete. The product leaves attended to the complete is made complete. The product leaves attended to the complete is made complete. The product leaves attended to the complete is made complete. The product leaves attended to the complete is made complete. The product leaves attended to the complete is made complete. The product leaves attended to the complete is made complete. The product leaves attended to the component of the component in the complete is made complete. The product leaves attended to the complete is made complete. The product leaves attended to the component in th The concrete walls will be plastered inside and outside with a cement cover-

Stock and Store Rooms.