

CANADA'S LATEST "HAPPY HUNTING AND FISHING GROUND."

A Great Territory Opened By the Grand Trunk Pacific--Mr. Charlton Enthusiastic Over the Prospect.



Mr. H. R. Charlton, of the Grand Trunk Railway system, returned to town recently from the valley of the Upper St. Lawrence in the heart of the Laurentides--one of the northern districts of the Province of Quebec, now being opened up by the transcontinental line of the Grand Trunk Pacific.

Questioned as to the object of the trip, Mr. Charlton explained that he had been on an inspecting tour of the territory of the newly organized Sagamo Fishing and Hunting Club, which has acquired some 74 miles of territory in Northern Quebec, and which has taken its name from a famous Huron chief.

Though only twenty miles from the line of the transcontinental railway, Mr.

Charlton experienced considerable difficulty in reaching the territory in question. The Sagamo Club territory is some 1,700 feet above the level of the St. Lawrence at Quebec. It includes a chain of lakes, chief among which are Lakes Kennedy, Clair and Little Clair. Club houses are to be erected on each of these, and auxiliary camps on other waters on the territory.

The three lakes mentioned are from four to six miles in length, containing numbers of lovely bays and islands, beautifully wooded with virgin timber from the water's edge to the summit of the highest mountains that hem them in. Surveyors have found gold-bearing quartz on portions of the territory. Abundant traces of moose, caribou, deer, bear and beaver were found by Mr. Charlton's party, while the speckled trout attain mammoth proportions in the lakes, several of five or six pounds hav-

ing been taken out of them. The Quebec section of the Grand Trunk Pacific Railway is being pushed forward to completion with rapidity. In connection with the eastern division of the Grand Trunk Pacific Railway, a short description of the route is given for the information of our readers.

The eastern terminus of the railway will be at Moncton, New Brunswick, from which point the seaport of Halifax will be reached over the Intercolonial Railway, a branch line being projected to St. John. The distance to the first named port is 183 miles, and to the latter 89 miles. The western terminus will be at Prince Rupert, on the Pacific Coast, near the southern boundary of Alaska.

Commencing at Moncton, the line will take the most direct practical route within the Province of Quebec, to the city of Quebec. At Chaudiere Junction, five miles above Quebec, the new line

will cross the St. Lawrence by a bridge now under construction by the Quebec Bridge and Railway Company, which will be the largest cantilever bridge in the world. From Quebec a direct route will be taken, passing in the vicinity of Lake Abitibi, and to the north of Lake Nepigon, to Winnipeg, an estimated distance of 1,800 miles from Moncton.

The branch which is projected from the main line of the eastern division to North Bay or Gravenhurst will also be an important one, as forming the connection between the new transcontinental railway and the present Grand Trunk Railway system. The same may be also said of the projected branch from the main line of the eastern division to Montreal.

These lines will traverse new country and provide transportation facilities for the location of industries adjacent to the extensive water powers that abound in this section.

THE CAMERA ON MARS.

Some of the Many Difficulties Overcome in Achieving Success.

Important as it was to secure observations of Mars of all kinds, it was evident to the writer that photographing was most likely to lead to success. To decipher the Martian features requires training as well as an acute eye; that is why skepticism persists. Forgetting that there can be no merit, because there is no difficulty in detecting what the first-comer can see, the inexperienced advance confidently to the attack, and seeing nothing, conclude that Mars has nothing to show. Much of importance, therefore, was not likely to accrue from visual observations to any one without long experience in that kind of study, and such a one it was not advisable to send, as not only would valuable time be lost in going and coming, but the installation of the instruments could not in many respects be as perfect as at home.

To secure a photograph, however, seemed more feasible and of greater educational value for professionals and amateurs alike. A photograph can be scanned by everybody, and the observation repeated until one is convinced.

Skilled experts were needed for taking the photographs; for the only process by which they could be secured was new, being the outcome of special research here during the last four years and brought to successful issue by Mr. Langford. It depended upon a careful study of atmospheric, optical and photographic properties combined. Failure properly to appreciate the effect of any one of the factors in the process was bound to bring failure in the result, as was the case at another large observatory, where an attempt was made to copy a new device of the writer without adequate knowledge of all the principles involved.

Success rested upon securing the utmost possible definition. For a definition far superior to anything hitherto attained in photographing the moon, stars or nebulae was necessary to catch the canals at all; and such definition was to be got only by a most careful combination of atmospheric and instrumental circumstances. What the useful definition means, the reader will perhaps appreciate when told that the whole disk of Mars is at best only 1/320 of that of the moon, and the breadth of a canal is only 1/286 of the diameter of the Martian disk. Or, to put it differently, on the retina of the whole disk of Mars prior to magnification occupies a space only 1/11000 of an inch across. Meanwhile the general attitude toward the subject was that of Dr. Johnson toward the musician who, when informed that the piece just played was excessively difficult, replied that he wished it had been wholly impossible.

HOUSE WINS AT JAI-ALAI.

Commission of 15 Per cent. on All Bets Made and No Risks Taken at All.

Jai-alai, which means a merry party and is the name under which pelota is known in Havana, is the occasion of very heavy betting among the Cubans. It is a winning proposition for the house, which takes 15 per cent. commission on all bets made but puts up no money.

All the wagering is done on the pool system, and the bookmakers who work on the main floor of the fronton are simply betting one man's money against another's. It is hard to figure the profits less than \$500,000 a season.

There are two kinds of games of pelota played, one in which teams of two meet in the partidos; the other in which six men play at a table, in what are called quinielas. Occasionally there is a variety in which three men play against two exceptionally strong players.

In the partidos the teams play 25 or 30 point matches, and as one side or the other gets ahead a point or so the betting changes. Often a team runs nine or ten straight points, and the betting becomes anywhere from 20 to 100 to 1. Cases have been recorded where by careful watching of the bets those who make them have a chance to win big money regardless of which team wins. In the quinielas the players meet in turn in singles until one man has scored six points.

The sports followers of the game sit on the ground floor, where the bookmakers, who wear flat red capes which make them look like cooks, are bobbing up all the time. The men who sit there are not interested in the game except in the way of betting, and they do not care how much their view may be obstructed.

On the second floor the seats are expensive, being \$2 each, but the view is clear. Up there they bet in dollars, downstairs, among the sports, in centimes, a coin valued at \$5.50.

In the gallery above the third floor the seats are less expensive, but the betting is just as heavy. It is like horse racing in this country. Those who go to view jai-alai as a spectacle are very few. The interest is all in the betting.

The players get all the way from \$500 to \$700 a month, and they earn it. The game is a very severe tax on the strength and the crack players do not last long.

There are no men like the professional baseball players in it who have played fifteen or twenty years. The life of the player in the game is bound to be short.



A HARD TASK.

"Hello, Jack, old boy, writing home for money?"

"No."

"What are you taking so much trouble over, then? You're fussing and fuming over it for the last two hours."

"I'm trying to write home without asking for money."

LOADING AN AFRICAN SLAVER.

The king, queen, royal family, chiefs and people were invited on board. They had previously been treated somewhat sparingly with liquors. In the meantime all the water casks are filled and most of the stores in the lower hold, together with all the stores and goods, on a platform resting on the keelson. A very large supply of iron bars had been taken on board at Cardenas. The trading had been proceeding on the upper deck, and a large supply of the various articles of food laid in, and now all was in readiness.

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Science Jottings.

STUDYING THE HEART.

Invention Which Enables Students to See its Pulsation.

The human heart is fast losing its mystery. You can actually see it nowadays--or, rather, you can observe its movements in a shadow picture by means of the Roentgen rays. The fact is not new, but the facilities for applying the idea to medical science have developed wonderfully, and the authorities of one of the great English hospitals are proud of the latest addition to their electrical department, which will be opened probably in the near future. It is called an "orthodiagraph," because it gives a tracing of the object disclosed in exact relative dimensions.

The apparatus has four arms, one of which holds a small circular greenish-yellow screen, one a wide black ring, one a wooden case and the other the little reservoir that acts as a pencil for the tracing. Against a tall canvas screen in the dark stands the person who wants his internal organs to be seen at work. The arms of the machine are lowered until the greenish-yellow screen appears in front. There is heard the faint crackle of electricity, a circle of light appears, and the motions of the heart, reflected on the screen, may be followed. Attached to the front of the machine is a bulb. This is in association with the "pencil" behind, and as it is pressed a drawing of the heart is traced in little blue dots upon another white screen at the back.

The novelty of the machine is the perfection to which it has been brought. It may be worked by a finger.

Great value is attached to the use of the orthodiagraph, which will enable accurate and reliable records of the state of patients' hearts to be obtained. At present, however, only the outlines and the movements can be observed. It is not possible as yet to see the structure of the heart. The orthodiagraph was made at Naunheim, Germany.

Chemistry and Diamonds.

It has already been established that the diamonds said to have been manufactured by chemistry were not diamonds at all. Two members of the committee deputed by the Academy of Science to subject the crystals to a searching test agree in this. They were brilliant and sparkling, but could not, either mineralogically or chemically, be classed as diamonds. They melted at 200 degrees, that is, in the flame of a candle. One of the examiners thinks the material may have been naphthalene.

The Auto Cure.

According to observations of Mr. A. Mouneyrat, communicated recently to the French Academy of Sciences, automobile journeys are excellent for the health. The rapid displacement of the air has, he asserts, a most happy effect upon nutrition. The number of red globules in the blood is largely increased. He finds also that the auto exercises a remarkable effect in inducing sleep, due not to fatigue, but to the influence of the air respired. He would recommend

automobile riding, at moderate speed, as a special treatment for anaemia.

Nature's Fairy Work.

The largest and most beautiful of the underground caves of Germany has, it is said, just been discovered while blasting a calcareous quarry near Aattendorn, in Westphalia. There is a magnificent hall hung with the most beautiful and delicate stalactite curtains as white as snow, and in parts not even a centimetre thick, some of them shining with all the colors of the rainbow. The stalagmites are also very beautiful. The "side chapels," niches and choirs number from fifty to sixty, and they are nearly all of immaculate whiteness.

Disaster in Archaeology.

French archaeology has suffered a serious loss in a quarter where the tourists of the world will feel it most. In the Commune of St. Sever, in the Pau region, stood the ancient chateau of Dumes, rich in historical association, and an admirable type of a style of architecture now almost forgotten. This most interesting building has been totally destroyed by fire.

Wing of Fossil Insect.

The museum of the department of comparative anatomy at Brown has received from Rev. Edgar F. Clark, of North Providence, a very curious fossil, an insect's wing. The fossil is of special interest in that it is a type specimen, the first, and so far as can be learned, the only one that has ever been found. It was named by Professor Samuel H. Scudder, of Cambridge, "Myliacris Packardii," after Professor Packard, formerly of the Brown faculty.

Germany's Field Gun.

Great pains are taken by the German military authorities to exclude all foreigners from obtaining any acquaintance with their new field artillery, but it has become known that its calibre is 77mm., or 2mm. higher than is usual for field guns. It is, of course, a breech-loading quick-firer, equipped with a hydro-pneumatic brake. The German name for the gun is "Ruchlaufgeschutze."

Nature's Decoration.

During the past few months in Switzerland and France there have been brought to light several caverns in which petrification of water has wrought marvelous effects of crystalline decoration. The last of these to be announced is a magnificent grotto laid bare by a fall of rock at the Pointe du Taland, Canton of Belle Isle-en-Mer. The grotto is accessible at low tide.

A Mammoth's Teeth.

Miners excavating near Starunia made a very interesting prehistoric find in the remains of a mammoth in excellent state of preservation. So far, says a Lemberg correspondent of the Pall Mall Gazette, the portions dug out include two teeth, some six feet in length, but in five or six pieces, jaw bones, parts of the vertebrae column, and three or four yards of hide, upon which the hair

is still fresh, joints, and other bones, and one foot of the animal. The remarkable state of preservation is attributed to the fact that the soil in the district is permeated with mineral oils, earth wax and natural gases.

Important Medical Discovery.

Dr. Plimmer has discovered a drug which is far more effective in the treatment of sleeping sickness than atoxyl. Dr. Plimmer's researches have been carried out for the Tropical Diseases Committee of the Royal Society of Great Britain.

The Caspian Sink.

It results from the careful measurements of level recently made by Lieutenant-Colonel Parisky along the line of the Transcasian Railway that the level of the Caspian Sea is 82 feet below the level of the ocean. If the Caspian Sink were filled with water up to ocean level the town of Krasnovodsk, which stands on its shore, would be submerged, for the mean elevation of that town is between 63 and 64 feet below ocean level.

Coal Tar for French Roads.

The French Government have adopted a method of treating macadamized roads with hot coal tar thinned with about 10 per cent. of oil. The cost is said to work out at about eight-tenths of a cent per square yard.

Charms the Cobra.

Certain kinds of noises, says the Madras Times, attract snakes. The whirr of the mowing machine is one, and in six months as many as 120 cobras alone have been killed on a grass farm in India by the advancing machine.

Americas.

The only active chromite mines in the United States are in California, where two mines furnish a small product, used crude, for lining copper furnaces.

Screens for Crushing Tin Ores.

In Cornwall experience shows that woven-wire screens in the stamps which crush tin ores are better than punched plates.

Wireless Words Across the Atlantic.

It is computed that about 14,000 words were sent over the Atlantic on the opening day of the wireless telegraphy service from the United Kingdom to Canada.

World's Rubber Supply.

It is estimated that South America furnishes about 63 per cent. of the world's supply of India rubber.

Fire-Alarm Posts in London.

White enamel plates, with instructions inscribed in Yiddish, have been attached to all fire alarm posts in the east end of London.

Brains and Beds.

From the Chicago Inter-Ocean, Nov. 21: It is impossible to enumerate all the different kinds of blithering idiots who are running around just now with their mouths open, but here are a few of them:

The man who regards it as "only a flurry in Wall street."

"We're going to have a panic?"

The man who says that "it has cleared the atmosphere."

The man who says "it's looking better" since those "crooked banks" shut up."

The man who argues that those "New York swindlers" ruined themselves to "get even with Roosevelt."

The man who is sure that "Morgan, Rockefeller and Harriman just did it to scare Teddy."

The man who suspects a "bank conspiracy" to hoard currency and "squeeze up all," while "they buy cheap stocks with our money."

The man with the amethyst ring and nickel-headed cane, to announce every where that "they can't bluff Teddy," and "he's got the Wall street gamblers going."

The man who proclaims that "it helps the situation" to "smash the rotten banks," and that "Teddy's got the finance villains on the run."

The man who borrows \$10 and then tells you "it'll be all right in a few days, because there's just as much money in the country as there ever was."

The man who sits at the pie counter and tells everybody that it is a "good thing" to "smash every bank in the country," and save the "common people" from "slavery" to the "money power."

The man who says "it had to come anyhow," we "are going too fast;" "Roosevelt is the greatest President we ever had," and "ought to have a third term" or "as many more as he wants."

Perhaps these men have brains, but they sound as if they had only pre-digested bedsteads under their hair.

How have they lived all these years in a great city without being run over by the cars?

The Lord only knows.

ECZEMA

Skin Itches Intensely,
Becomes Hard, Cracks.
Bleeding Sores Develop.
Pus is Discharged.

The prevalence of Eczema is due in every case to the presence of humors and poisonous acids in the blood.

These poisons come from fermentation of undigested food in the upper bowel or from discharged fecal matter in the lower bowel.

It is a waste of time to employ ointment or washes.

No lasting benefit can be had from doctoring the skin when the cause lies in the blood.

Rich, pure blood will bring new life to the skin--will restore beauty and richness of complexion.

Ferrozone is the best restorative. It acts on the blood instantly, acts with a purifying, healing effect--neutralizes the acids--destroys the poisons--drives every humor from the blood.

So rich and nourishing does Ferrozone make the blood so cool and healthy, that the sore is healed--itchiness is soothed away--every trace of eczema poison is removed.

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