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DAILY EDITION



Tuesday, May 20, 1930.

SALMON FISHING TREATY

It is satisfactory to know that the opposition of federal Conservatives to the provincial Conservatives and to the the preservation of fish and will set tissues are greatly accelerated in Ottawa government in regard to the Fraser River salmon treaty is at an end. It was a foolish and frivolous opposi- tered in relation to its uses. The the fish undergoes before death, tion at the best and wholly unnecessary. To say that the ideal preservative would be one produce a condition within the Tolmie administration and its permanent fisheries force which would not cause any change body which favors the action of the were unable to advise Ottawa in regard to what was need- methods of preservation do bring so powerful are these destructiveed was going a little far when none of the opponents to the about change. Thus, in treating fish agents that at temperatures above treaty had any fisheries experience. It looked too much by canning, smoking, salting, dry- freezing they would in time comlike opposing for the sake of opposition rather than for ing, pickling and freezing, marked pletely liquefy all the tissues of the the good of the country. Now they have seen the error of their ways and there is likely to be action at Ottawa.

SENT COPIES AWAY

A good many readers of the Daily News sent Saturday's ject of our research to reduce to a rate of enzymatic decomposition is issue away to friends in order that they might read the editorial summary on the front page "Evidences of Prosperity." Those who have not done so are advised to take action yet. So many inquiries for copies have been received that we have decided to use it again as a free advertisement for the city of Prince Rupert.

ETERNALLY AT IT

The only way to do business effectively is to be eternally at it. The moment you let up in your efforts, you begin to hardly anything is known of the During life the living organism the heat which gains admittance thawed fish in the hands of the relose out. So it is with any cause. Spasmodic enthusiasm does not count for much. It is all right for getting away with a good start, but a good start is not enough.

In Prince Rupert we are great starters. We have abundant enthusiasm for a new cause, a new organization, new ities which are characteristic of the diately. While it is true that bac- sinks and once again begin this fish—is subject to during this perwork, new amusement, but we do not always stay with it. Perhaps that is why we sometimes fail. A little more sustained effort and we should do better.

Baggage Car Mail Service

Larger Places Along Railway Every Day

the hours of closing for the east- the Fireside Club was held in the without deterioration in cold stor- bacteria do play a part in the de- diately underneath the skin are portant role in the fishing industry has necessitated the enlarging of bound mail by the regular mail Baptist Church Parlors last night, age. car Mondays, Wednesdays and Miss A. Dawson's group had Saturdays is now 11.30 but that for charge of the meeting and the chair It is well known that when the terials is another undesirable fea- time. The phenomenon seems to be the baggage car service leaving was occupied by Miss Edith John- rate of freezing in a tissue is rapid ture in long storage and, one which one which concerns a change in the here Tuesdays, Thursdays and Fri-stone. Miss Steina Philipson led the number of crystallization cen-can hardly be greatly reduced by fats and oils though there is some

all classes of mail including letters with the nearness of the return of of a smaller number of large ones room has a dehydrating effect upon changes which occur. These discoland newspapers to the following Christ, and the imperative need of such as appear in a slowly frozen the stored products and that if dif- oring reactions seem to be depenpoints only: Edmonton, Vander- the individual turning to Christ as tissue. When the phenomenon of ferences of temperature between dent upon a certain chemical state hoof, Fort Fraser, Burns Lake, Tel- the Savior. kwa, Smithers, Hazelton, Terrace, Refreshments were served at the pense of another, under conditions eliminated, this drying or shrinkage selves. It is quite possible that conand Prince George.

Fireside Club

All Kinds of Mail Carried to Second Coming Is Subject of Ad dress By Pastor, Rev. Dr. F. W. Dafoe

A SIMPLE STEP TOWARDS HEALTH

Kellogg's ALL-BRAN is a Daily Essential and Millions Know Its Effectiveness in Relief of Constipation

Perhaps the one simple thing you are not doing to guarantee permanent health is having sufficient roughage in your food. Absence of this roughage is the direct cause of constipation which results in so many other ills-headaches, listlessness, general depression, indigestion and, sometimes, serious disease.

Kellogg's ALL-BRAN is roughage. It is positively guaranteed to relieve both temporary and recurring constipation or the purchase price will be refunded. Two tablespoons daily (in serious cases, with each meal) is the proper amount.

Kellogg's ALL-BRAN also helps you to health in other ways. It is rich in iron, practically all of which goes into the blood, bringing

red, healthy color to the complexion. It helps prevent anemia. Be sure to include it in reducing diets.

Many eat Kellogg's ALL-BRAN with cream or milk added. It is a delicious addition to cereals, fruits and soups. In cooked foods, such as bran muffins, it is just as effective in the relief of constipation Recommended by doctors. Ask your grocer for Kellogg's ALL BRAN in the red-and-green package. Served everywhere. Made by Kellogg in London, Ontario.

"Improved in Texture and Taste".

TO THE FISHING INDUSTRY

By D. B. Finn, Director, Fisheries Experimental Station, Prince Rupert)

Man's insatiable curiosity has been responsible for the great changes which have taken place in ways of living. The systematization of knowledge which he has gained in his attempts to satisfy this curiosity has made possible all those things which science has given us. Without science we could not have had industrialization-and without industrialization, there would be no dense masses of population. Thus, the very acquisition of knowledge has indirectly created the problems which to-

day we are called upon to solve. The aided by first referring to the proexistence of these large and dense cesses which occur in the fish as it masses of population has made necessary elaborate systems for pro- lives in the sea. During life, there curing, preserving and distributing are constantly going on within the of food. In this, refrigeration is de- organism processes of building up, stined to play an ever increasing and breaking down. These procesimportant role, particularly in its ses are carried on by substances relation to the fisheries.

and preservation. This paper will ance is disturbed and the enzymes deal in a very brief way with the responsible for breaking down the part that refrigeration is playing in forth some of the problems encoun- their action. The struggles which changes are brought about in the fish quite apart from any bacterial versible changes which it is the ob- fish imediately it is caught, the

undertaken upon the engineering however, this laboratory has been problems of refrigeration and much led to believ that some of the enuseful information with regard to zymes may have slight activity at the production and maintenance of temperatures in the neighborhood low temperatures has been gained. of 10 degrees F. and over a period of On the other hand, very little is months or years, may produce disknown with regard to the biophyknown with regard to the biophytinctly observable and undesirable duct. In this way, shrinkage was that are thawed before cooking. The
advantage of such a procedure in
reduced about 70%.

MUCH WORK fresh material.

days the mail will not close until devotional exercises. The address tres is very large which results in proper temperature control. It is indication that the nitrogenous was delivered by Dr. F. W. Dafoe, the production of a large number well known that the presence of constituents of the tissues play an The baggage car service carries who strove to impress his hearers of very minute ice crystals instead cooling pipes in a cold storage important part in the oxidative one ice crystal growing at the ex- the pipes and the product could be existing within the tissues themof fluctuating temperatures, is con- would be greatly reduced. The ex- ditions of alkalinity or acidity of slowly-frozen material.

bearing upon the migration of oil shrinkage would be avoided. level. The reason for this is prob- to store the frozen fish. This cir- earlier in the paper. ably two-fold—the lower tempera- culating air served to pick up the There are very good reasons for the United-Eastern Mining Co., tures bringing about a greater sol- heat which leaked through the out- believing that in the future most of one of the original companies opidarity of the oil and the constancy er insulation. In this way, it pro- our fish will be processed by modern of temperature preventing varia- tected the stored fish from under- methods of refrigeration and dis- erating in the Taku River field. tion in internal pressure.

The fisheries of today are faced within the body called enzymes. with two important problems which During life, these two processes are are, broadly stated, conservation nicely balanced. At death the balpreserved materials. Refrigeration activity. This autolytic (or self-dibrings about the least change of all, gestive) process is slowed up by low though even in this there are irre- temperatures and, by cooling the minimum. greatly decreased, while by freez-A great deal of research has been ing it is almost arrested. Recently,

resulting product is doing a great that temperature notably Pseudo- ture" and "appearance" with deal to overcome prejudice which monas fluorescens which is thought consequent effect upon price. Holds Meeting public against frozen or cold-stored discoloration of halibut which ocfoods. There is still a great deal to curs in the holds of fishing vessels. The "rusting" or yellow discolorabe learned. Our problems are by no Investigation is being prosecuted tion which occurs in oily fish durmeans solved, for it is one thing to with a view to examining the role of ing cold storage is another problem freezing treatments and optimum ments for many tours and special produce a product which has un- bacteria in cold storage at low tem- which seriously concerns cold stordergone very little deterioration by peratures and while as yet nothing ago companies. Fish such as halibut feel, as was stated earlier in this "Year by year," Mr. Creelman the act of freezing and quite an- very definite can be said in this re- salmon and herring which contain The post office announces that The regular weekly meeting of other to maintain this product gard, it seems quite probable that appreciable quantities of oil imme-

> Crystal Formation The loss of water in stored ma- kept in storage for long periods of isting methods of procedure. sidered, it is readily seen that even periment conducted by the Biolo- the body tissues may have a prothough the ice crystals within a tis- gical Board was based upon the fol- found effect. she may be uniformly small in the lowing considerations: (1) that the It is known that low tempera- Campbell and Miss J. Stalker at the newly-frozen product, after a per- amount of heat generated by stor- tures such as zero or slightly above, home of the latter, 515 Tatlow lod of storage under such varying ed material within itself was ex- will greatly reduce the possibility Street, in honor of Miss Alberta improved, new busses and cars were conditions, these small crystals will tremely small and need not be con- of the occurence of "rusting." It is Hill, whose marriage takes place be replaced by large ones. This has sidered as having an appreciable found difficult to use such tem- early next month. The rooms were the effect of disrupting the tsisue, influence upon the temperature of peratures in ordinary practise for decorated in mauve, pink and white spoiling the texture, and making the room (2) that while a room is long periods of time because of the and the tea table was centred with the product very much more like closed, the principal source of heat excessive shrinkage which they pro- a miniature bride with pink and is the leakage through the insula- duce. This is, no doubt, due largely white carnations and rose tapers in Variations in temperatures also tion. (3) that providing the heat to inadequate insulation; for it is silver sconces. Many gifts were prehave the efect of bringing about could be taken up before it came evident that the poorer the insula- sented by Miss M. Stalker in a dainchanges in internal pressure with- all the way through the walls, the tion, the lower must be the tem- tily decorated wagon. Music in the frozen material. Under con- presence of bodies much colder perature of the coils to produce a enjoyed and refreshments served. ditions of fluctuating temperature, than the stored material, such as given condition. This results in a Those present include: Mrs. Geo. there is continual expansion and ammonia pipes, inside the rooms, greater differential between the Hill, Mrs. E. Kinny, Mrs. T. Sprout,

going any rise in temperature and tributed in the frozen condition, will be here on the Princess Louise There are many other phenom- since the temperature of the walls Recent experiments carried on by tomorrow morning enroute from ena connected with deterioration in of the inner room was almost the biological Board of Canada Vancouver to Juneau. Mr. Fraser's cold storage which must be investi- same as that of the stored material, have shown that fish fillets placed father was for years gold com-

The Quaker Oats Company.

cooked cereals.

cooked cereals.

good to eat.

In an ordinary cold storage room, the elimination of spoilage of simplest physical constants of the has certain mechanisms of defense through the walls travels through tailer will be apparent, for, if the materials stored or of the subtle against the invasion of bacteria. the stored material causing air to public were to buy and keep fish in chemical changes which take place With the advent of death, these pick up water vapor which is sub- a frozen state until the time of and result in the destruction of fla- mechanisms cease to function and sequently transferred to the cold cooking, the spoilage which that vor, texture and those other qual- bacterial invasion starts imme- pipes. The cooled, desaturated air most perishable product—unfrozen terial activity is decreased by low- cycle resulting in the continuous iod, would be avoided. Fortunately, The introduction of quick-freez- ering temperatures it by no means transference of water from the ma- such a procedure is steadily being ing methods has done much to im- follows that reducing the tempera- terial to the pipes. This is more ser- made more possible by the developprove the quality of, frozen fish, ture to 32 degrees F. will entirely in- lous than a mere loss of weight in ment of small, low temperature re-These methods are being widely hibit it. This laboratory has isolated the product since such dehydration frigerators for use in shops and applied and the excellence of the bacteria which are quite active at always brings about a loss of "tex- homes.

Rusting

terioration of the frozen product. particularly subject to this when

contraction, which may have a would be unnecessary and thus stored product and the coils and it Mrs. J. Campbell, Mrs. W. Cumfollows that shrinkage will increase mings, Mrs. V. Menzies, Mrs. Joe towards the surface of the fish such In the experiment, an air-tight in proportion to this temperature Cook, Mrs. J. H. Meagher, Mrs. as occurs in the stored salmon. Oils insulated room was built within a difference. Such low temperatures Prendergrast, Miss Chris McKenzie, at low temperatures are only semi- cold storage room in such a man- could be maintained without ser- Miss Alida Johnson, Miss E. Ross, solids and under conditions of in- ner as to leave a space all the way lous shrinkage and with avoidance Misses Annie and Netta McLeod, creasing pressure tend to migrate round its walls, its ceiling and floor, of a good deal of these undesirable Miss Mae Davis, Misses Nellie and in such a way as to relieve that Through this space was circulated chemical changes by the introduc- Mollie Lawrence, Miss Frances pressure. This condition of oil ooz- cooler air which was maintained at lion of the jacketed cold storage Cummings, Miss Edna Parker. ing is not met with if the temper- a temperature only very slightly room as developed by Doctor A. G. atures are held at a constant low below that at which it was desired | Huntsman at Halifax and discussed

Your Breakfast

Shot from Guns

so you don't have to cook it

Read how this amazing in-

vention gives Puffed Grains

the virtual nourishment of

hot cooked cereals.

storage conditions, one cannot but parties to Jasper National Park. paper, that refrigeration is certain said, "increasing thousands are and to eventually revolutionize ex- Jasper Park Lodge each season and

Alberta Hill Is

dainty miscellaneous shower was given last evening by Miss B. guests. The dining rooms, laundry,

gated from the biochemical point of there was extremely little transfer- in the cooking utensils in the froz- missioner at Atlin and he was view. Consideration of these may be ence of water vapor from the pro- en condition are superior to those brought up in that district.



Tourist Resort Enlarged to Meet Increase of Visitors

WINNIPEG, May 20:- In the international exchange of holiday seekers who now annually cross the Canadian-American border, an en-Thus, as one views the progress ormous flood of tourist travel to the which has been made by refrigera- Canadian Rockies is predicted for tion engineers in the construction this season by R. Creelman, passenof apparatus, together with the de- |ger traffic manager for the Canatermined efforts of the biochemists dian National Railways, who left and biophysicists to define the best yesterday to complete arrange-

> today the accomodation for 650 guests is an increase of 100 over 1929 capacity. New buildings ready for the official opening tomorrow will include: Two ten-room cabins, one 16-room cabin, one eight-room eabin, one two-suite cabin, a sleeping building for golfers with 23 bedrooms, each cabin being equip-Pretty Affair bedrooms, each cabin being equipwith sitting rooms, two additional staff cabins, with 16 rooms each, a new building for the nurses, who stay at the Lodge to give service to powerhouse, private service room acquired, the curio shop is enlarged, the ticket office moved and a new specialty shop opened up. Enclosed verandahs are placed in some of the cabins. The program of landscaping is being continued."

The Alpine Club of Canada will meet this year at Jasper. Their headquarters camp at Maligne Lake will be in operation for their use from July 28 to August 16.

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