## ABALL

UNDER THE AUSPICES OF THE CANADIAN FISHERIES ASSOCIATION WILL BE HELD

## IN THE MOOSE HALL

## Friday, August 2

Premier Orchestra-Refreshments-Evening Dress Optional Tickets, \$1.00 each. Obtainable at Orme's Drug Store, Prince Rupert Pharmacy and A. Brooksbank.

There Will Be No Formal Invitations Issued

#### THE DAILY NEWS PRINCE RUPERT - BRITISH COLUMBIA

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DAILY EDITION



Friday, August 2, 1929

#### SMELTER FOR DISTRICT

The letter from F. G. Dawson published yesterday ask- are in the field of pure science, 1926 all the fish were stopped, will be almost as clear as that of ing for information in regard to the mines in the district, but contribute in one way or anstripped, the eggs put in the salmon.

with a view to securing not only present available tonnage and conditions. This arrange and conditions the salmon.

The salmon are being carried forward as instance and boat by the salmon.

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This arrange are being carried forward as instance and boat by the salmon are being carried forward as instance and boat by the salmon are being carried forward as instance and boat by the salmon are being carried forward as instance and boat by the salmon are being carried forward as instance and boat by the salmon are being carried forward as instance and boat by the salmon are being carried forward as instance and boat by the salmon are being carried forward as instance and boat by the salmon are being carried forward as instance. with a view to securing not only present available tonnage and conditions. This arrange-fry were planted in the lake. The but also prospective tonnage for the next few years, to lay ment of the summer workings total number of adults was 5071. before a group of capitalists who are prepared to build brings the universities of Canada The fry liberated totaled 5,916,and operate a smelter on this north coast at the most con- and stimulates the training venient point is worthy of note. We ask the attention of young men for fishery research. all mine owners and others who have such information available to send it to Mr. Dawson. If the prospective station assisted conservation and tonnage is sufficiently attractive, an expert will be sent to make a thorough investigation and report to his prin- clusions reached in regard to the

It is pointed out by those in a position to know that while there are not many shipping mines in the interior of British Columbia, there are numerous properties that and 28, the various species have could ship if there was a smelter at the mouth of the lumbia coast as funds and oppor-Skeena River or at some other suitable point where the cost of shipment would be low. Ores now on the dump at of spring salmon have been tagged many mines could be treated if there was a smelter near coast of Vancouver Island and the enough so that the costs would not be excessive. At Toplev, Owen Lake, Smithers, Hazelton, Doreen, Cedarvale. mately 60 per cent of the fish go to the Columbia River. A con-Usk, and a dozen other places, mines are being developed siderable number turn into the which could help to provide ores for a customs smelter. While many of the mines are tied up by large operating companies, there are a large number that are free to sell where they wish. With the presence of a smelter more California. In 1925 spring saland more of such mines would be developed and the ability mon were tagged near Hippo Isto ship their ores would enable them to develop their prop- Queen Charlotte Islands, and the erties more rapidly.

#### CONGRATULATIONS TO NEW PRESIDENT

Prince Rupert is great'y honored by the fact that the Canadian Fisheries Association has chosen T. H. Johnson, manager of the Canadian Fish & Cold Storage Company, to be their president during the coming year. Mr Johnson is well fitted for the position and will doubtless where they lived as young, the carry on the work of the association with dignity and efficiency. The Daily News congratulates him on his election and we feel sure Prince Rupert people generally will join us in doing so.

#### PREMIER TOLMIE AND THE HIGHWAY

A despatch from Victoria yesterday stated that Pre- and 20 per cent from Alaskan the spawning of each year, the mier To'mie at the Conservative picnic at Bowker's Beach, waters. Haystack Island would principle of the conservation of Victoria, made a public announcement that the Govern- appear to be a somewhat of a salmon is relatively simple. It inment was looking into the possibilities of linking up the road system of the United States through British Colum- ferent spawning grounds. Sock- ment. If over a period of years bia with Alaska.

We are glad to know that Dr. Tolmie is interested in Narrows, and the bulk of the re-lmost effective recourse is to this project, but there seems to be a general feeling here turns were from the Fraser River, limit the catch and so increase that the Provincial Government hesitated a long time be- thus definitely establishing that escapement. There is at present fore making any announcement about the highway to con- Johnston Straits. nect Prince Rupert with the south, but seems eager to help our American friends.

We expect to see Alaska connected with the south by Vancouver Island, Sooke, Deep salmon, are supplying the data as means of a highway at no very distant date, but the first Bay and Nanaimo, in Strait of accurately as it is possible to do thing in which Prince Rupert is interested is in having a Georgia, and in Queen Charlotte so, and where possible the adhighway connecting Prince Rupert with the rest of British Coumbia. It is much more important than the Alaska not extensive, showed a movement rant. highway. All we ask is for first things first. Give us chiefly into the Strait of Juan de le eAay.rvV,Ac a highway here and we shall be ready to back the Govern- the Washington coast as far as ment in building the other, but we refuse absolutely to be sidetracked in favor of the more spectacular project.

#### THE PROVINCIAL SECRETARY

We are having a lengthy visit from the provincial sec- The Queen Charlotte Sound tag- an experimental transfer will be retary in the To'mie administration, Hon. S. L. Howe, who ging showed a movement south- made this fall to Massett Inlet. is also commissioner of fisheries. We are glad to have him ward to all the inlets along the Salmon, in view of their vast in the city because we feel that the better we are known River and streams south of it, to major attention. and our potentialities realized, the sooner we shall de- several streams along the Vancouvelop. We hope Mr. Howe will come often and stay as ver Island coast and even into long as possible. We are always glad to welcome a min- Pink and chum salmon were general survey of the situation as ister of the crown and especialy one who is interested tagged in 1928 in Queen Char- regards these two species has particularly in our premier business.

If a person should ask whether he should take up writing as a career, inquire if he has anything to write about. We cannot express what we do not know.

## Study of Fisheries Problems at Biological Station Near Nanaimo Outlined by Dr. Clemens its Head

One of the interesting addresses of the fisheries convention was that delivered yesterday by Dr. W. A. Clemens, director of the Pacific biological station at Departure Bay, on the problems and work of the station.

Dr. Clemens expiained that the function of the station is to obtain such information concerning the marine resources of the coast as shall assist in their conservation. They work out the life histories of the fish and determine the physico-chemical conditions under which they live;

tudy the inter-relations of\* determine the effects of gear; coast as far as Nanaimo. study statistical data as indicating Sockeye Salmon Propagation at the trend of a fishery; investigate propagation to find possible and efficient methods. The field was made of the relative efficiencies wide and the problems numerous. Solutions often did not come quickly and unfortunately trained men were scarce.

in touch with Pacific problems

then proceded to tell of the con- The outgo in the spring of 1929 the fish would take that route. migration of salmon, saying:

#### Migration of Salmon

During the years 1925-26-27 been tagged along the British Cotunity have permitted. Five kinds results have shown that approxi-Strait of Juan de Fuca, the majority of these going to the Fraser River. Two tagged fish were cap- per Fraser. The fisheries branch tured in the Sacramento River, this year made a very large plantland, off the west coast of the bulk of the returns were again marked and released this fall. Arfrom the Columbia River. These results have been very surprising and illuminating, for they indi- in 1932 and 33. cate a movement of spring salmon all along the coast from Alaska to California. Since there is indication that spring salmon ingeneral tend to go back to the place mplies the prior movement northward of the immature.

#### Naas River

at Haystack Island, off the mouth gree of accuracy the extent of the of the Naas River, showed 60 per runs from year to year. Since cent returns from the Naas River, salmon spawn in streams and it is 10 per cent from the Skeena River possible to measure or estimate meeting point from which the sal- volves the determination of the mon sort themselves out for dif-relation between catch and escapeeye were tagged in the same year there is clear indication that the also at Deep Water Bay, Seymour run is declining the obvious and sockeye come to that river through no such direct effective course of

in six localities, namely, Ucluelet carried out for the provincial and Kyuquot, on west coast of fisheries department on sockeye Sound. The west coast of Van- ministrative officers are regucouver Island tagging, although lating catch as conditions warhe Columbia River. The Strait histories of pink and chum salof Georgia tagging showed a mon are now being carried out in movement throughout the strait as the Queen Charlotte area. Espewell as Puget Sound and the cial attention is being paid to the movement of a few individuals out problem of building up the pink to the vicinity of Cape Flattery. salmon runs in the off years and mainland coast to the Fraser economic importance, are receiving

The pink salmon tagged showed been made and an attempt has local distribution chiefly to the currence and movements with the Salmon River. The chum salmon occurrence and movements of the came southward to various inlets food and the variations in the slope the mainland or the salmon occurrence and movements of the salmon the mainland or the salmon occurrence and movements of the salmon the mainland or the salmon occurrence and movements of the salmon the salmon the salmon occurrence and movements of the salmon the salmon tagged showed been made to correlate the occurrence and movements with the salmon tagged showed been made and an attempt has salmon occurrence and movements with the salmon occurrence and movements of the salmon tagged showed been made to correlate the occurrence and movements with the salmon occurrence and movements of the salmon occurrence and movements occurrence and movements occurrence and movements occurrence and move

aquatic organisms or food cycles; and along the Vancouver Island Cultus Lake

At Cultus Lake a test is being of natural and artificial propagation. The outlet of the lake is screened and fenced, so that both adults going to the lake and young leaving the lake may be stopped There are two classes of work- and counted. In the fall of 1925 ers at the biological station, a all the adult fish were slopped small permanent staff and a mov- and counted and then allowed to ing staff. The former consists at proceed up the lake to spawn. The present of fine men who are all total number was 5423 (1540 engaged in economic fishery in- males and 3883 females). Calvestigations. The other consists culating 4500 eggs per female the university professors and total egg deposition was 17,473,qualified post-graduate students 500. The yearlings resulting the station upon approved re- ed in the spring of 1927 and ficult one, but undoubtedly as a and Rosario Straits. searches. Many of the problems totalled 183,272. Fry and 2-year- body of accurate detailed informasearches. Many of the problems totalled 183,272. Fry and 2-yeartaken up by these workers have olds will bring total to approxi- tion is built up our view of pildirect economic bearings; others mately 200,000. In the fall of chard and herring conservation 524. The outgo from this plant-

of ing amounted to 335,793 yearlings. In the fall of 1927 all the fish Dr. Clemens then outlined in were allowed to spawn naturally. was about 2,500,000 yearlings. In Investigations to date have failed nformation in regard to sockeye Tides and winds keep up a con- March and a lesser one in Octo- quick results.

propagation. Sockeye Salmon in Upper Fraser An attempt is being made to tudy the success of planting lower Fraser sockeve eggs in the upng of Cultus Lake eggs in Eagle River, near Taft. The biological board is holding half a million fry in ponds at Taft and these will be rangements will be made to count any fish returning to Eagle River

#### Sockeye Materials and Data Collected

Each year a study is made of the sockeye materials and data collected from the four chief sockeye streams of the province by the provincial fisheries department. The studies have now been carried over a period of years of such length that it is becoming Sockeye salmon tagged in 1925 possible to predict with some deaction and this fact must be Cohoe salmon have been tagged faced squarely. These studies,

Pink and Chum Salmon Investigations

Pieter vo.

#### Pilchard and Herring Investigations

along the mainland coast, to the general physical and chemical Fraser, a few into Puget Sound, conditions. This summer in con-



junction with the provincial fish- stant mixing of this fresh water ber. The importance of this h

### of Georgia

quarters that salmon coming and rates of growth have been study needs to be extended to all through the Straits of Juan de made of our commercial clams. parts of our coast. Fuca, Rosario and Georgia fol- The life histories of our commerlowed the Fraser River water and cial shrimps are now being work-The run consisted of 81,227 that if the Fraser River water ed out. The propagation of the of British Columbia has been up (25,658 males and 55,569 females). could be diverted to Haro Strait Japanese oyster is being thor- dertaken in order to find out:1 the fall of 1928 all the fish were to substantiate that theory. It is crabs has had to be discontinued eties that inhabit our waters; stopped, stripped, the eggs placed very difficult to detect any fresh temporarily because of lack of a obtain such information of the in the hatchery, and in the spring water in eiher Haro or Rosario qualified investigator. of 1929 about 3,000,000 eyed eggs Straits. The Fraser River water were planted in the streams ribu- lies on top of the salt water in tary to the lake. The count in the Strait of Georgia in the form The study of the life history of administrative departments in 1930 will indicate the efficiency of a basin, several feet deep and the pile borer or Teredo has made their fish cultural policies. It of this method of propagation, several miles in diameter. It lies some progress. It has been fairly ports with colored illustration hese counts will be continued somewhat north of the mouth of definitely shown that there may are now practically completed over a period of 12 to 15 years and the river and varies in size and be two reproductive periods in the eventually we should have reliable extent according to the season. Nanaimo atea, namely, one in Daily News "Want Ads"

eries department the problem is with the surrounding salt water formation to owners of boats a being attacked from the statistical and it is this well-mixed water obvious. Entry into the wood only who spend at least two months at from this spawning were count- side. The whole problem is a dif- which passes out through Haro takes place when the pile borers

#### Clams, Shrimps, Oysters and Crabs

investigations of these shell fish the past two years important It has been believed in various studies of the reproductive periods ary and possibly in September To oughly studied. The study of exactly the kinds, races and was

#### Study of Pile Borer

a small free-swimming larva, the is, shortly after the time the em are shed by the adults. My and Ap. il and October and to

oms should be painted in Febru

#### Study of Trout

A thorough study of the tree life histories, distribution, etc., might be useful in assisting to



# FAST BEING

Commanding General Says Bugs Will be Wiped Out By Fall

"Our FLY-TOX sprayers are the greatest menace to the insect army ever devised by science," declared General "Tox" in a recent interview while resting after the big spring offensive against the insect army.

General "Tox" has been in personal command of the FLY-TOX offensive since it began this year, and he declared that his much-needed rest was made possible by the fact that housewives all over the country have come to his aid and can now wield a FLY-TOX sprayer as well as his best troops.

The insect army is fast being depleted to such an extent that the only resistance now is from guerilla bands of insect warriors. General "Tox." declares that by Fall the entire international insect forces will be wiped out.

FRACRANT IN ODOR

