

Some Provincial Problems Which Await Solution

The First Steps Now Are Being Taken

Co-Operation The Secret

Research Council Seeks Information in New Brunswick on Which to Base Campaigns for Increased Efficiency

The questionnaire prepared by the honorary advisory council for scientific and industrial research, some time ago appointed by the dominion government, is being distributed throughout this province and it is appropriate that not only those who are immediately concerned in the matter should know of the work and be interested, but it is important as well that the public realize its importance.

The war has brought home to all the vital importance of co-operation, both in politics and business. Before the war that spirit of co-operation between individuals and between the government and industrial concerns, made it possible for Germany to carry out the policy of "peaceful penetration," which made her, in many industries, almost without a competitor and in many countries paramount in trade.

Co-operation between individuals and firms led to the development of her great bye industries and co-operation between her government and the potato syndicate, gave her complete control of the potato trade of the world. The typify the many. In every enterprise in Germany, great or small, where skill and knowledge were required for the solution of a specific problem, those men were employed who were most competent, because of adequate training, to solve them.

Canada's Need Many men in this country have realized that such a spirit of co-operation was needed, but not until recently have the public in general appreciated its value. We now begin to see, in a vague way, that if Canada is to take her place as competitor of the world's markets that it will only be by each firm doing the work which it is best fitted to perform and with a knowledge of that specific task obtained by the most careful research.

Only by co-operation can this be done. Few, if any, firms in New Brunswick can afford to maintain high priced specialists in their work to solve the problems that perplex them, yet under the system to be introduced their problems will be solved by those in a position best to solve them. Through the advisory council for scientific and industrial research if a manufacturer has a problem in his business which he cannot solve with the appliances at hand, by application to the council those who are best fitted to solve it will be engaged to do so.

New Brunswick's Problems New Brunswick has many problems to be solved. The waste from the pulp mills is a source of industrial alcohol, a substance absolutely necessary in many manufacturing concerns. It may be made, too, from sawdust and waste potatoes, and from the latter starch also. A great deal may be done in more economical caring for fish in their marketing. The development of our shale and oil fields will require a great deal of technical knowledge and new problems will be constantly to be solved. In United States breadmakers, confectioners, laundries, drycleaners, and many other concerns are employing experts to solve vital problems in their business with certain profit to themselves. The same problems are found in New Brunswick.

There are other problems further afield which are still more important.

The solution of one single problem would make the shores of the Bay of Fundy one of the manufacturing centres of the world. That problem is the utilization of the Bay of Fundy tides for the obtaining of cheap power. Potentially the power is there. Once obtained it cheaper than it can be obtained in Norway or at Niagara Falls, two places where cheap power is at present obtainable, and where factories abound, and some of the greater industries of the world will locate in our midst. The United States government is spending \$20,000,000 on plans for making nitric acid from the air. Cheap power is the chief requisite. Beside power, limestone, coke and air are needed. These we have in abundance. We can make cheap coke from coal and if we make it we can make as a by-product, tar as well, the material out of which most of the dyes of the world are made. During peace time, instead of making nitric acid, the United States plants will make calcium cyanamide, the leading nitrogen fertilizer, and for that there will be an increasing demand. If cheap power is obtained the possibility of development in manufacturing is almost without limit and with our proximity to the trade routes the world is our market.

This is for the future, but possibly not far distant future. It needs a people with some vision to make it a reality and with vision the knowledge that comes from active and long-continued research. But for the present there are many problems to solve and it is to be hoped that all firms to whom the circulars are sent will fill them out carefully and return them to the proper authorities, even though they may seem at the present time to have no problem for solution.

Give Students Time To Harvest Crops

University of Maine Will Open Oct. 10, That Men May Do More Work in Agriculture—Cavel for Dr. Aley

University of Maine, Orono, Aug. 7.—October 10 is the date set for the opening of the University of Maine for the first semester of the year of 1917. The date has been set after deliberation and careful study of conditions. It has seemed to the college authorities consistent and practical to allow the time for students to assist in harvesting just as they were allowed to go early for the purpose of planting the crops and at this time when help for harvesting is exceedingly scarce and high priced, it has seemed to everyone concerned in the selection of a date for opening that America's harvest time this year is of such vital importance that the institutions of learning must do their bit toward helping by allowing their students the extra time for work at home or on farms.

LOCAL NEWS

Riley is coming. Keep waiting for Riley. T.F.

Assistant dispensary, Royal Hotel Soda Fountain. T.F.

Riley will be here—watch for Riley. T.F.

May Queen leaves St. John Tuesday, Thursday and Saturday at 8:30 a.m., Leaves Fredericton Monday Wednesday and Friday at 8 a.m. 8-11

Riley will be here—watch for Riley. T.F.

Wanted at Royal Hotel—Kitchen girl, pastry pastry girl and silver man. T.F.

Waldorf Cafe, No. 52 German street.—T.F.

Riley will be here—watch for Riley. T.F.

SHIPPING

ALMANAC FOR ST JOHN, AUG 7 A.M. High Tide... 2:28 Low Tide... 9:00 Sun Rises... 5:22 Sun Sets... 7:37

PORT OF ST JOHN, Arrived.

Str Grand Manan, 180, Hersey, Westport Beach. Sch Shamrock, 53, Merriam, St. Stephen. Sch Dorothy, 49, Hill, Annapolis Royal. Tug Stadium, 40, Rolph, Apple River. Str Chignecto, 38, Canning, Canning, Nova Scotia. Cleared. Sch Shamrock, 53, Merriam, Maitland Str Empress, 612, Macdonald, Digby. Tug Stadium, 40, Dolph, Spencer's Island. Str Chignecto, 36, Canning, Advocate Harbor. Sch Dorothy, 49, Hill, Walton (NS).

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MAY ATTACK THE BELGIAN COAST

Admiral Jellicoe Hopes Problem is Not Unsolvable German U-Boat Bases

Ostend Offers Best Target, But it Can Only Be Attacked at Rare Intervals London, Aug. 7.—"The British navy's control of the nerve system of maritime communications of the world at this juncture is more complete than the control exercised by the army of the Central Powers on land," said Admiral Sir John Jellicoe, First Sea Lord and Chief of the Naval Staff, in an interview with the Associated Press yesterday, in which he discussed the submarine menace and the naval situation at the end of the third year of the war. "That," he said, "suggests perhaps a train of thought which students of the war might pursue with interest and advantage to the allied cause. But I am content at this moment merely to emphasize the supreme importance of the work which the grand fleet is doing under the command of Sir David Beatty.

"You ask me how it is that German destroyers are able to carry out raids from time to time. Such missions are entrusted to the swiftest vessels under the German ensign, and they are carried out with every advantage on the side of the Germans. The North Sea is a very large area of water. It is more than twice as large as the whole United Kingdom—England, Scotland, Wales, and Ireland—combined, and traversed by nearly 94,000 miles of railway lines.

"The German destroyers wait for dark and then dash into the open sea, situated within an hour or two of steaming of the British coast. They have the choice of several times as much range as the British coast. There is hardly a point but is undefended, advantage having been taken of the immunity from bombardment which international law was believed before the war to confer upon the coast of a neutral country. The enemy has the choice of nights when the weather and visibility are most suitable for his purpose. He puts to sea clear of his mine fields. He can steam in a northerly, westerly or southerly direction. Aircraft are used for reconnaissance so as to gain information of the movement of the British patrol forces. The Germans have the further advantage of being able to fire at every craft which comes within sight of the moment it is sighted. "What is the position of the British patrol whose vigilance has been subjected to three years of unceasing strain? Officers have many duties to carry out quite apart from punishing these 'tip and run' raids. They never know when the enemy ships will break out or where they will appear at their highest speed and in the darkness they have to discriminate between friend and foe on the one hand and foe on the other hand before they fire.

"Despite the advantages which the Germans enjoy no raid has resulted in the slightest military gain to Germany or loss to Great Britain. Such a policy could be pushed successfully unless the enemy is prepared to support his destroyers with stronger forces—in other words, risk some portion of his high sea fleet—and thus the menace of our Grand Fleet operates.

"We deplore the loss of life among non-combatants, but after all we are engaged in a war whereon the freedom of the world depends, and we cannot defect our strategy from its main purpose. That is what the Germans hope to effect, and they have failed. At the same time, perhaps I may add that since the capture of the Swift and Broke the enemy has attempted no raid on the British coast.

This leads me to say a few words as to the destroyer and submarine bases on the Belgian coast which are in the occupation of the Germans. One is Ostend; the other Zeebrugge. The Germans have applied to this length of sand-fringed coast the same principle of intensive fortification adopted higher up on the North Sea and the island of Heligoland. The coast line is studded with heavy guns which in themselves constitute infinitesimal targets at a range of more than twenty thousand yards, which any bombardment could be carried out. Little to hit at Zeebrugge.

"Moreover, the enemy has not been slow to make fullest use of aircraft and smoke screens by way of protection. Ostend offers the best target, but it can only be attacked at rare intervals when a favorable combination of wind, weather and sea conditions can be attained. Zeebrugge, in the real sense of the word, is not a naval base, but merely an exit from the inland port of Bruges, with which it is connected by a wide, deep-water canal. There is little to hit at Zeebrugge. Still I believe that the problem which the Belgian coast presents is not insolvable.

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