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## Swedish Doctor's Leprosy Experiment

STOCKHOLM, Sweden, Dec. 9.—(A.P.)—Leprosy, the dread disease, hitherto believed to be strictly confined

to human beings, has been inoculated into monkeys. This newest step in the fight against the disease is reported to have been made by Prof. John E. Resnatuerna, of the University of Stockholm. The professor is a specialist in skin disorders.

## More Power From Mighty Niagara; Plants Seek Another 2,500,000 H.P.

About one million horsepower of electrical energy is now being developed at Niagara Falls. Both in the United States and Canada, forcible efforts are now being put forward to work out a treaty between the two countries, that will permit sufficient diversion of water from the falls to develop an additional amount of at least two million horsepower. The matter will be a live subject for discussion at the coming session of the Dominion parliament, and a motion to bring the subject up for discussion is to be put on the order paper by the Hon. Edmund Bristol, M.P., of Toronto.

It may come as a surprise to many people to learn that the power possibilities of the Niagara River have been exploited only partially. We have been accustomed to understand that all the power that could be developed at Niagara Falls had already been harnessed. This is true only in part. All the power, that can be developed at Niagara Falls with the small amount of water that treaty arrangements permit power developing companies to use for that purpose, has indeed been harnessed; but if all the water that flows between Lake Erie and Lake Ontario were utilized to develop electrical energy, the present output of power could be multiplied six-fold. Economic use is being made of only one-sixth of the power possibilities of Niagara Falls.

For a number of years, American power companies have been carrying on an insistent propaganda, looking to the development of some of this additional power. Canada has not, in the past, taken up the question because the 36,000 cubic feet per second of water which Canada is permitted to divert from Niagara Falls, has not been entirely used up, and until the completion of the Queenston power house of the Ontario Hydro-Electric Power Commission, Canada always had a reserve of water. Now Canada has used up all the water it is permitted to take from the falls, and it is faced with the prospect of serious power shortage before the end of 1927. Canada, for the first time, is looking seriously into the question of getting more power from the mighty Niagara.

Mr. Magrath is in Favor.

At the recent dinner tendered to him by the engineers of Ontario, Hon. G. A. Magrath, the new chairman of the Hydro-Electric Commission, said on this subject:

"I think both countries can get more power from the Niagara River, temporarily. Erosion of the falls requires immediate attention, but I would like to point out that the first stipulation of withdrawal of water was only in the nature of an experiment. I believe the taking of some more water would have no effect on either the scenic value of the falls or navigation, either on the upper or lower river. If it would, I would forget the idea to-day. I would like to see the engineering forces of both countries around a table to settle this matter.

With the Ontario Power Commission, which controls the hydro electric situation on the Canadian side of the Niagara River, seeking additional water, and the private company on the other side also demanding more water, there has been reached a certain unity of opinion between the two nations which is bound to be a strong factor in bringing out the requisite international treaty.

**Power Possibilities of the Niagara.**  
Let us consider, in turn, the amount of power available at the falls, the amount at present being developed, the amount that could properly be developed, and the important question of the effects on the scenic beauties of Niagara Falls of the increased diversion.

The water that goes over Niagara Falls is drawn from the whole Great Lakes drainage basin, 285,000 square miles of area. All the immense volume of water that falls on this vast area goes through the gorge of the Niagara River and drops in the short distance of ten miles a total distance of 316 feet. More than 200,000 cubic feet per second of water goes through this torrential experience and has, wrapped up in it, the equivalent of 6,000,000 horsepower or 50 per cent. more than the total amount of electrical energy now being developed from water power in the Dominion of Canada, which is one of the world's leading countries in water power development.

Only a Quarter Now Used.

Of the more than 200,000 cubic feet per second of water that rushes through the Niagara gorge there is only 56,000 cubic feet per second now being used for power purposes. This is divided as follows: 36,000 cubic feet per second to Canada, and 20,000 cubic feet per second to the United States.

This 56,000 cubic feet per second of water is capable of producing, in round figures 1,000,000 horsepower of electrical energy, and this amount is now being produced. The actual capacity of the power plant at the falls is higher than this, but the difference is due to the fact that part of

the equivalent must be held in reserve. The present capacity of the various power plants on the Niagara River is as follows:

Canadian Power Plants.	
Ontario Hydro-Electric Power Commission plants:	
Queensston . . . . .	550,000
Ontario Power Co. . . . .	185,000
Toronto Power Co. . . . .	125,000
Canadian Niagara Power Co. . . . .	125,000
International Railway Co. . . . .	2,000
<b>Total . . . . .</b>	<b>983,000</b>
American Power Plants.	
Niagara Falls Power Co. (2 plants) . . . . .	560,000
<b>Both countries, total . . . . .</b>	<b>1,543,000</b>

Not Impair Scenic Grandeur.

It is believed by engineers that a larger amount of power can be developed at Niagara Falls without sacrificing its scenic beauties. In addition to the 56,000 cubic feet per second that is at present being taken for power purposes, there are various additional diversions, such as for the Chicago drainage canal, the New York state barge canal, and the Welland ship canal. Allowing for these and for the total amount of water, estimated as required for maintaining the proper scenic effect at Niagara Falls and to carry away ice during the ice season, there is a total of 117,000 cubic feet per second of water that cannot be used for further power development. This leaves, nevertheless, 87,800 cubic feet per second of water that could be harnessed, and it is estimated by engineers that this water could develop about 2,500,000 additional horsepower.

**Power Experts Say It Is Necessary.**

Not only is it estimated that this water can be taken without in any way impairing the grandeur of either the American or the Canadian Falls, but it is declared without equivocation, by engineering and power experts, that it is essential that additional water be used for power purposes, if the falls are not to commit suicide. A new gorge is gradually being worn away at the Horseshoe Falls. One hundred and sixty years ago, the Horseshoe could not have been known by that name, for the crest of the falls on the Canadian side of the river was almost as straight from shore to shore as is the crest of the American Falls to-day. But in the intervening years the rate of recession has been steadily increasing until the beautiful horseshoe shape has worn away. The inner tip of the horseshoe is going back further and further each year and the rate of recession is estimated at five feet per year, although during the past twelve months some abnormal geological circumstances have caused the falls to go back much more than this. The reason that the Canadian falls are going back each year is because they carry about 94 per cent. of the water that goes over both falls, and this great volume of water wears them away much more rapidly than the American falls, which carry only 6 per cent. of the water. At the American falls the water pours over like a thin bridal veil, and at the Canadian Falls an enormous flow is concentrated at one V-shaped notch, providing a steady wearing away process that is moving the falls back further and further each year.

**Even the Flow of Water.**

It is claimed by engineers that the only way to save the Canadian falls is to even the flow of water there. This could be done by diverting further water from above the falls through canals or tunnels, or by one of the many other ways that have been proposed by power engineers for the development of additional energy, when the water is available. The flow would then become more even, as it is at the American falls, and would have a tendency to bring the wearing-away process to a practical stop.

Theories of engineers have been put to practical test by model built by the Niagara Falls Power Com-

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pany at their plant at Niagara Falls, N.Y., where they have reproduced the entire falls in miniature. By controlling the flow of water by miniature weirs and sluices they have shown the actual appearance of the falls under the present diversion and under the larger diversion that they suggest. The model has seemed to demonstrate what is indeed a reasonable assumption, that a smaller flow of water over the Horseshoe falls would provide a finer combination of falls, mist and spray, such as is seen at the American falls, in place of the present current of water, that is so voluminous that vision is obscured.

Treaty Likely to go Through.

In the past, it has been the fears of lovers of Niagara Falls that the increased diversion would take away some of the charm of the cataract that has prevented serious consideration of this question of a larger use of the available water and available power. When engineers are able to convince the public that they have no need of fears on this score, it seems that the treaty between the United States and the Canadian government to bring about the larger diversion of water will be put through without difficulty.

Canada will naturally have the lion's share of the water to be developed, because it will come largely from the Canadian Horseshoe Falls.

At the present rate of increase of power used in Ontario, the additional power would likely be used up within a reasonable period.—Financial Post.

## Canadian War Veteran Officials Resign

OTTAWA, Dec. 11.—The resignation of C. G. MacNeill, Dominion Secretary-Treasurer of the Great War Veterans' Association of Canada, and of the entire staff of the Dominion Command officers in Ottawa, has been announced. Sir Richard Turner, V.C., Dominion President, stated to-day that the resignations were offered and have been accepted as preliminary to an effort to adjust the Association's affairs in anticipation of its entry into the new United Organization of War Vets in Canada. Provision is being made to continue the more important administrative functions of the Dominion Command offices but, according to Sir Richard, unless additional funds for current liabilities and maintenance for at least three months, its major activity, the work of the Veterans' adjustment service bureau, necessarily will be greatly curtailed.

This course was decided upon by General Turner after consultation with members of the Dominion executive, and following a complete survey of the affairs of the Association this week. It was the hope of the G.W.V.A. President that the adjustment ser-

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vice bureau might be maintained so that it could be turned over to the new organization as an operating entity. This could yet be done, he asserted, if branches of the Association and individuals subscribe sufficient funds for current liabilities and maintenance for at least three months.

According to General Turner the curtailment of the adjustment service will be felt by disabled veterans and dependents in all parts of the Dominion. Several thousand individual claims for disability and dependents' pensions, treatment, orthopaedic appliances, hospital pay and allowances, insurance, appeals, medals, citizenship preference and related matters are now in progress of adjustment. New cases have developed daily at an average rate of 65 weekly more difficult cases are now brought forward.

For over eight years the bureau has acted as the advocate of the veterans in dealing with governmental matters.

Upon the recommendation of the Dominion Secretary, General Turner has requested T. C. MacNeill, of the "Veteran," to assume the position of the Association's national headquarters pending the summation of its merger into the veterans' organization.