onservation

a monthly bulletin published by the Commission of Conservation Ottawa, Canada.

VOL. VII

JULY, 1918

No. 7

Scientific Research

Large United States Concern Makes Millions From one Discovery Made in Its Laboratories

The great laboratory of the General Electric Company at Schenectady is ntained at an annual cost of over \$500,000 and employs seventy-five stigators, including among them several who are eminent in the world of pure science. One of its products is the tungsten lamp which is now manufactured by twenty-two factories tered over the country. This p, according to a very careful nate made in 1911, was, at that effecting a power saving valued \$240,000,000 per annum. Since the consumption of this type of has increased three-fold and further research has increased its efficof light production nearly 25 The research workers are uraged from thinking of financial stock ts, as discoveries are more likely e made by those who are working ne scientific spirit .- Prof. J. C.

Point Pelee Reserved As New National Park

ne Sanctuary Established on ecommendation of Commission of Conservation

oint Pelee, the most southerly portion of Canadian territory, jutting out n the lake shore of Essex county, ario, into lake Erie for a distance about nine miles, has just been ted a National Park by the ninion Government, to whom the belonged. The creation of this for the protection of its distinct attractive tree and plant life and vild life it harbours permanently during certain seasons, was recended by the Commission of ervation and the Advisory Board Wild Life Protection; the Cana-Society for the Protection of s and the Essex County Wild Life servation Association also ad-ted its creation. In the Ninth nual Report of the Commission the n features of the Point are debed as follows:

Not only is it the most southerly nt of Canada, geographically, and the character of its birds, trees and its, but it constitutes one of the centration points in the northern (Concluded on page 26.)

Only One Way to Cut Eastern Spruce Now Pays Big Dividends Down Insurance Tax

Failure to understand the real place and function of insurance is the most powerful obstacle in the way of fire prevention work. The average man figures that, when a building burns, the only loss is the difference between the actual value destroyed and the amount of insurance carried. Insurance does not restore property that is burned, nor obviate the loss enover many individuals instead of allowing it to fall upon the owner alone. The insurance company is merely a collecting and disbursing agency for the policy holders. It collects from those policy holders enough money to pay the loss plus a sufficient amount to cover operating expenses, including the ordinary dividends on capital

Excessive fire losses necessitate exessive insurance rates. Low fire losses will, in time, bring about reduction of rates. In the long run, this rule works out inexorably. Every man who prevents or helps to prevent fire is indirectly reducing the cost of insurance. Every man who causes are by carelessness or neglect is helping indirectly, but none the less surely, to increase the cost of insurance for both himself and his neighbours.

Even the man who has nothing to insure pays his share of the cost of The manufacturer carries insurance on his goods in process of manufacture and in storage. The wholesaler and retailer likewise carry insurance upon their stocks. Be it a loaf of bread or a pair of socks, by the time the article has reached the consumer a dozen insurance premiums loss is, therefore, nothing more or less than a tax upon the public which, in some form or other, they are sooner or later compelled to pay. There is no escape except by a reduction of the fire loss itself. Better construction, the elimination of carelessness and the prosecution and prompt conviction of incendiaries are matters of direct and vital importance to every man, wo and child in Canada.-J. G. S.

In Japan, the Government and the ical and Chemical Research.

So great is the demand for airplane spruce by the Allies that eastern as well as Sitka spruce is now being used. Canada has large resources of eastern spruce, which has hitherto been used mostly for the manufacture of pulp, paper and lumber, and the British War Mission is at present trying to secure in eastern Canada as large an amount as possible of the tailed. It merely distributes the loss grades suitable for airplane manu-

> Eastern spruce has for some time been used for airplane construction in the United States, although only a very small percentage of this timber is sufficiently clear for this purpose. Tests made by the United States and Canadian governments show that where material of suitable quality can be found, this species serves admirably for airplane construction and may be expected to supplement the supplies of Sitka spruce from the Pacific Coast, which are only now beginning to approach adequate pro-

The timber for use in airplanes has to be sawed parallel to the bark, instead of parallel to the axis of the log, as is done for lumber. In this way, straight-grained boards are obtained, having the highest possible percentage of material free from knots and possessing a maximum of strength .- C. L.

UNPRECEDENTED FIRE WASTE

Up to the present, the fire loss of the Dominion of Canada is 25 per cent. greater than for the corresponding period of last year. If this rate have been paid upon it, and the of destruction continues, the loss will amount added to the price. The fire exceed thirty-two million dollars in 1918, and, together with expenditures upon insurance and fire protection, will constitute a burden of over \$65,000,000. This means about \$10 out of the pocket of every man, woman and child in Canada, or almost \$40 for the average family.

BOOK-KEEPING FOR FARMERS

The Commission of Conservation has just published a Farmer's Account Book containing blanks and instrucmanufacturers are jointly spending tions for a simple but complete system aspect is settled. If we fail to solve \$2,000,000 on an Institute for Phys- of farm book-keeping. It will be sent any problem of housing that needs of farm book-keeping. It will be sent any problem of housing that needs on request to bona fide farmers only.

Proposed Solution of Used for Airplanes War Housing Problem

Everyone Helps Pay for a Loss When a Building Burns Increased Demand Causes Allies To Town-planning Expert of Commission Suggests Government Housing Scheme for War Workers

Shortage of houses is reported from all parts of Canada. Subject to variety of local conditions the causes of the shortage are everywhere the same, namely, scarcity and dearness of money and high cost of labour and materials. These causes have come suddenly into being as a result of the war and have practically killed private enterprise in building. If the present economic conditions were likely to be permanent, the position would gradually right itself, as the level of rents and purchase price would soon rise to meet the increased cost; but perhaps the most prevalent expectation among authorities is that the existing conditions are not permanent and that costs will recede to some considerable extent-although not probably to the old level-when the war is over. That expectation is so likely to be realized that it is almost certain private enterprize will cease to be much of a factor in producing a supply of houses for several years to come.

There is a special war housing and general industrial housing problem. The war problem is associated with the drift of population to districts where war industries have been established. The general industrial problem existed before the war and has been intensified in all parts of the country as a result of the causes above referred to. The same problems exist in Britain and the United States.

At the present moment, the most urgent question is that of war housing. Britain and the United States are dealing with that as an important war measure and that phase of the housing shortage in these countries is being met by means of housing schemes promoted and financed by the national governments.

It is claimed that in Canada we are also in urgent need of houses to help in winning the war, that we need them to enable us to increase the output of our war industries. What should our policy be in regard to this pressing special problem of war housing, due regard being paid to the lessons of Britain and the United States? Other aspects of the housing question may surely be left in abeyance till that one

(Concluded on page 26.)