We take the following from the address of the President of the Ontario ological Society at the Annual Meeting on 25th ult.

INJURIOUS INSECTS.

The city of Ottawa being one of the great centres of our lumbering interests, it seems fitting that I should on this by the destructive work of borers in are cut, are unfortunately too well and subject. Unfortunately, it does not as yet seem to be within the power laked me to allow him to paint my known to those interested in the lumber of men to do much directly towards. trade, although the sufferers may not be familiar with the life histories of their greatest injuries during the larval stage of their existence. There are the longicorns, or long-horned or saw-horn beetles—Busprestidse; and the cylindrical bark beetle Scolytide. To go over this long series in detail the life-history of a single example in can ever be applied over extended was said to him nor invitation given him he life-history of a single can ever areas of forest.

oon multiply to a prodigious extent. The mature insect is an inch in length.

by being bent under the thorax.

passages in every direction in the inner danger attending it, and its use in this avers of the bark of the tree, and also manner, in the proportion already through the outer surface of the wood. | mentioned-of a teaspoonful to a pail

In some parts of our Province pines of water—and applied with a whisk, is are greatly injured and sometimes not only safe but most economical. killed by the attacks of a woolly bark | For some years past experiments louse which covers parts of the trunk have been made with various other suband branches with a white cottony sec- stances with the view of finding a subtion, under the protection of which stitute for Paris Green which would be myriads of tiny lice live, puncturing less dangerous in the hands of the carethe bark with their sharp beaks and less, and among them I believe none

on which the lumber supply fifty or a hundred years hence must largely depend, and which it should be the policy of our rulers to protect as far as possible.

Most of the Governments of Europe with but little danger. are now fully alive to the importance of this matter, and are annually spending large sums of money in establishing young forests. Two years ago I called was held at Derby. A portrait of a your attention to an insect then recentyour attention to an insect then recently discovered by Prof. A. R. Grote, of Buffalo, which was greatly injuring the terminal ahoots of both the white and red pines in western New York.

Street, Dright, was thus sinked this, from a lot of pictures upon the floor of the studio, by licking the face of the portrait.

D. C. and red pines in western New York. It was the larva of a small moth, Many years ago my husband had his tion of resinous matter from the wounds leaving the portrait in London to be it made, followed usually by the death finished and framed. When it was than was at first anticipated, and I have no doubt but that it is to-day materially retarding the growth of

Mr. S. H. Scudder, of Boston, submit- had ever been paid to him. lepidopterous insect which is injuring the young pines growing on the Island worthy, that a large Newfoundland dog Retinia, closely allied to the Retinia one night by its owner lying concealed Dupmana of Europe. The moth lays under his bed-a strange circumstance, her eggs near the tips of the twigs, because the dog was forbidden to enter down which the young larvæ burrow, the house at night. The owner being killing them outright, and thus stunt- struck by this singular occurrence, reing and almost destroying the trees. solved not to disturb the creature, and, Prof. Comstock, of Washington, also getting into bed, kept himself awake referred to two other species of Retinia to watch events, It was not long bewhich he had observed injuring the fore a sound was heard in the passage pine trees in that city.

two of species of insects which are dog flew from under the bed, and springknown to devour the leaves of the pines, ing forward, brought a man to the damaging them in some instances very ground, the gentleman's own servant,

dent that we are suffering serious loss in all our lumbering districts from the silent workings of these insidious foes, pine trees, both before and after they ant subject. Unfortunately, it does In 1843, a young and self-taught artist their enemies, so as to be able to recognize them in the various stages of cognize them in the various stages of and history, since an intimate acquaint- my dog with me. The picture was their existence. The lumberman suffers ance with these may result much more done in kit-cat size; and the artist from the work of a number of destructive species, nearly all of which inflict pate. A few trees, such as a belt or a artistic work, that when exhibited at stage of their existence. There are three families of beetles in which are included the greater number of our enemies in this department. I allude to the longicorns, or long-horned beetles—Cerambycides; the servicorn, beetles—Cerambycides; the servicorn, killed by the use of alkaline washes ap.

by heart heart less appearance of the servicorn was so grateful for my attention that he would weary you. A brief sketch of is scarcely possible that such remedies the family at the "unveiling;" nothing

me of the most destructive of the It is, however, gratifying to know steadily fixed on it, and he soon be species included in the Cerambycides is that in addition to the numbers devoura large grey beetle with very long horns, ed by our insectivorous birds, almost lick and scratch it, and was so much known to entomologists under the same every injurious species is in turn at taken up with it that all-although so of Monohammus confusor, and popularly in this district as the "Ottawa cow."

When trees have become diseased from who seek out and destroy these pests believe that he should know it was my with ceaseless diligence. Were it not likeness. We, however, had sufficient for these friendly insects, the destruca pine forest and seorched and partially tive species would be far more numerafter being cut have been allowed to remain a season in the woods or the

millyard, there these insects gather and CHECK THE INCREASE OF DESTRUCTIVE about the dog; he, however, soon INSECTS is of the greatest practical importance, The antenne of the male reaches the and probably no insecticide has of late and on search being made, he was on extraordinary length of from two to played so important a part in this conthree inches, while those of the female are shorter. The female lays her eggs in the crevices of the bark, whence the comparatively insoluble, and a sub- did not prevent him from paying atlarvse when hatched eat their way into stance which seems admirably qualified tention to it, for whenever I was away the wood, burrowing extensive galleries for the destruction of insect life. Be- from home, whether for a short or long through the solid timber. When mature sides its special use as a potato beetle they are large, white, almost cylindrical killer, it can be successfully used to defootless grubs. They pass their chrysa- stroy any and every insect which eats as it appeared to give him comfort, the lis stage within these burrows, and the the leaves of plants, shrubs, or trees. door was always left open for him. perfect insect on its escape eats its way

So poisonous an agent should be When I was long away, he made a low out through the bark. There are about handled with caution if accidents are whining, as if to draw attention to it. a dozen species in this family known to to be prevented, and it is a matter of This lasted for years, in fact as long as great regret that in consequence of he lived, and was able to see it. Most of the insects belonging to the carelessness in its use the lives of many have never kept a dog since he died, I Sarsaparilla family Buprestide may be recognized valuable animals have been sacrificed, dare not—his loss so much affected me. by their brilliant metallic colours, and occasionally even human lives have I might tell of many of his wonderful They have very short antenne, which been imperilled or lost. From the ease actions; he could do most of such things are notched on one side like the teeth with which it can be procured it has as are related of other dogs. C.W.P. of a saw, and are often hidden from view also been resorted to in several instances by persons determined on sui-

Chalcophora liberta is one of the cide. These unfortunate occurrences most destructive to pine trees, and its are greatly to be deplored, and every history is very similar to that of the possible precaution should be taken to onghorned beetle just described, but avoid accidents. It is quite a common the larva is of a different form, and has occurrence for painters, hardware dealthe anterior segments or rings of the ers, and general merchants to sell Paris body very large, reminding one of the dreen, and to send it out without label appearance of the tadpole. The perfect insect is about three-quarters of an is very insecurely put up and packed inch long, of a brassy or coppery hue, with groceries and other articles for with the thorax and wing covers deep- home use in the most indifferent man ly furrowed by irregular longitudinal ner. Such recklessness should not be lepressions. Dr. Fitch enumerates permitted, and no one should be allowtwelve species belonging to this family ed to sell any substance so dangerous which are known to be injurious to unless it is properly labelled with the INTERNATIONAL STEAM SHIP COMPANY. ence to these beetles may be found in "poison" prominently attached. With an article contained in the last annual such precautions generally adopted, report of our Society by Mr. J. Fletch- many accidents which now occur would er, of Ottawa.

The cylindrical bark beetles (Scolysome that so many evils have attended tidæ) are also a numerous family, eight the use of Paris Green that it does species of which are known to attack pine. The boring Hylurgus torbrans is probably one of the commonest. This beetle is about a quarter of an inch long, of a chestnut red colour, thinly clothed with yellowish hairs and is found during the month of May. The larva, which is a small, yellowish species of which are known to attack more harm than good, and that its use The larva, which is a small, yellowish care is exercised, and the powder be white, footless grub, bores winding used mixed with water, there is no

exhausting the trees by feeding on the have been used with greater success while we are mainly interested in the preservation of our native forests, the future of our country demands that we shall not overlook the young growth, on which the lumber supply fifty or a more extended trial, as its use under

Sagacity of Dogs.

Some years ago a fine arts exhibition

Nephopteryx Zimmermani, which fed portrait taken by T. Phillips, Sen., R. under the bark, causing a free exuda- A., and, subsequently, went to India, of the twigs infested. Since then it sent bome, about two years after it was has been found over a much wider area taken, it was placed on the floor against young pine trees in many portions of was a great pet in the house. As soon as the dog came into the room he re-cognized his master, though he had not logical Club of the American Associa- seen him for two years, and went up to tion for the Advancement of Science, the picture and licked the face. When where our Society was represented by this anecdote was told to Phillips, he your President and Vice-President, said it was the highest compliment that

X. ted some observations on another When in Bute some years ago, I of Nantucket. It is a species of belonging to a friend of his, was found a faint light was seen through the key In addition to all these are a score or hole, the door opened and instantly the

who, accompanied by another fellow, From the facts enumerated, it is evi- was there for the purpose of robbery.

During my residence in Cornwall I and since, in some measure, to be fore-warned is to be forearmed, I desire to for fifteen years. I had him when a call the special attention of those im- month old. His mother was a beaumediately concerned in the prosperity, present and future, of the lumbering his father a black Newfoundland; my group planted for shelter or ornament, the annual meeting of the Polytechnic plied with a brush or broom, and a presented me with the painting and l timely application of the same will pre- still have it. When it was brought to vent the operations of the borers, but it my house, my old dog was present with to notice it. We saw that his gaze was tacked to a greater or less extent by in- well knowing his intelligence—were

found it out, when a low whining and scratching was heard by the family, time-sometimes for several days-he

A young girl was telling a friend that she had a beau. "Oh," said the friend, "I guess that's all a yarn!" "Well, perhaps it is seeing that I can wind him round my finger," allowed the first

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