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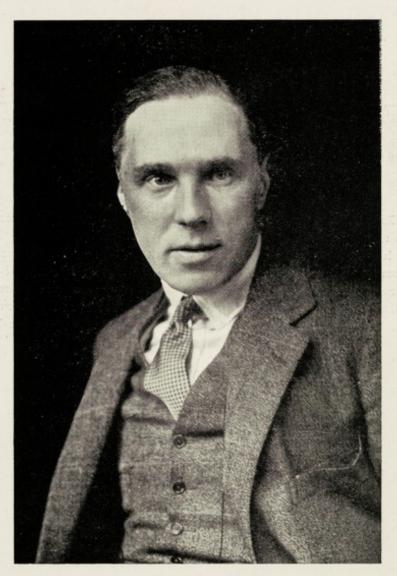
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MARVELS OF FOREST INSECT LIFE.



Russell.

London.

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Formerly Field Officer, Canadian Govt. Forest Investigations.

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A SOCIAL Insect Community—Marvels of the White Ants or Termites, their housing schemes and communal labour. Guests welcome and unwelcome. Food problems in the Termite home and how they are solved. Termites and Man—An Insect Gall-Maker—Where numbers tell—The value of mass production—How myriads of tiny creatures attack and overwhelm young trees—A glimpse of the inner workings of the tree, and how they become disorganized as a result of the activities of these minute forms of life—Some solitary Wasps. Their habitations, and sidelights on their lives—Beetle-lore. Dwellers in bark and wood, the Engraver Beetles and their ways, strange "cultivators"—"Long-horns," their lives and trials.



A White, or Termite, Ant Heap, over Twelve Feet High.



A Long-horn Wood-Borer, natural size.

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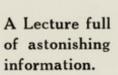
The part they play in Man's everyday life—The modern world is realising the importance of studying their habits and the diverse ways in which they affect our welfare for good or ill—Entomology, or the Study of Insects, one of the many branches of Biology being assiduously investigated to-day—The science of tree-growing and management—The forest wealth of the world—The great primeval forests of Western Canada—The havoc created by fire in those regions, its consequences—The insect life of the forests in Western Canada—The story of a Bark-beetle plague and the damage it wrought—Some insect borers and their ways—The forests of Europe—How Man creates forests artificially—The life of a tree from seedling to maturity—Some insect enemies of young trees and the way they live—Caterpillars, how they increase and overwhelm large forest tracts—A Caterpillar plague in Central Europe and its results—Modern methods of controlling Cater-

pillar plagues on a large scale—The work of aeroplanes—Natural methods of Insect control.

Some insect allies of the forester in his war against insect foes

The Story of a Gypsy Moth and the Beetle which hunted for
its Caterpillars—Insect Parasites: What they are and what
they do—The story of a Wood Borer and one of its parasites, a
chapter in the book of Nature telling of the wonders of instinct

Biological studies, the foundation of this work, a field of
illimitable discovery.

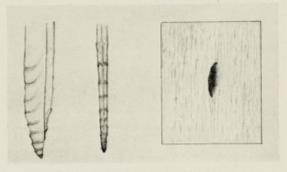




The Rhyssa — Parasite infecting Insects — at work boring into wood.

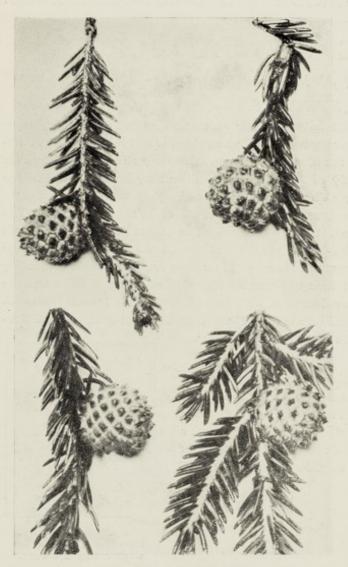


The Rhyssa, Parasite infecting Insects; Male, small, on left; Female with Borer, on right.



The Rhyssa: Side and Front views of Ovipositor, or Egg-laying apparatus: Right, hole bored in wood.

Marvels of Forest Insect Life.



Some curious Galls made by Insects on the branches of a Spruce Tree.

R. CHRYSTAL, who has spent his life studying the Insect Life of the Forest, gives the fruits of many years' research in these most fascinating Nature Lectures.

The exceptionally fine Lantern illustrations are from photographs taken in the course of his investigations.



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3rd December, 1929.

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