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JOHN LINDT,

ANTS, BEES AND WASPS.

Insects That Live in Communities Like Men.

onden Pall Mell Gazette. There are few departments of natural history more fascinating than that which deals with the habits and instincts of the social insects, and Sir John Lubbock's marvelously patient and minute experiments have placed on their supposed faculty of intercomhim at the very head of all observers munication, and came to the concluand accomplished naturalist, who seems to find spare corners of time for everything, has kept anta nests for years in his own house, and, as he domiciles his six-legged pets in glasshouses, he has had them constantly under observation at all times of the year—morning, noon and night. To saits, accordingly, the larger part of saits, accordingly, the larger part of saits. s brief summary of what was previously known on the subject of formican habits; and these introductory chapters, enriched as they are by many new facts and luminous evolutionary explanations, will probably prove to most unscientific readers the pleasantest portion of the whole book. He touches lightly on the life-history of the individual ante, which live as ne himself has shown in his own nests for at least seven years, and gives a brief account of their structure and castes, which might have been advantageously accompanied, in a popular leactiption like this, by some details

as to the principal native genera and species. His speculations on the origin of the sting and his account of the various modes in which different auta fight are extremely interesting. So is the description of the American and Australian honey-ants—in which cer-tain gorged and bloated individuals are told off to do duty as specialized living honey-jars on behalf of the community—as well as the investigations into the political economy of some exotic kinds, where division of labor has become organized in the very structure of the insects, and different castes are produced with different heads and organs, peculiarly adapted to the functions they will be called upon to perform. In such a stereotyped commonwealth as this it is physically impossible for any upstart individual to hold hims If above the station in life to which it has pleased the community to call him.

plants and other insects have always excited great attention; and on these subjects Sir John Lubbock has collected all the best previous observations, which he corrects, confirms, or completes by later researches of his wn. After pointing out the numerous contrivances by which plants guard the honey in their flowers against the depredations of theiring ants, as noted by Kerner and others, he goes on to describe such cases of alliances between trees and ant communities as that remarked by Mr. Belt in a Central American acacia, which produces

nectar in glands on its leaflets in order to entice a small secies of roaming ants-the latter in return protecting the tree from the ravages of their leafcutting congeners. Mr. Moseley has shown that certain tropical plants can as well as the still more curious agrirelations between these insect commu-

nities and other animals are even more interesting than their relations with the world of plants. Sir John Lubbock quotes graphic accounts both ants, which he supplants by his own valuable observations upon aphides. It has long been known that ants keep of their masters. Our author, however, has discovered that the provident little herdsmen actually carry the eggs of the aphides into their nests, keep them there through the winter, and place them out in the spring on their proper food-plants. They also

guard their cattle at times by building earthen cowsheds over their heads. Different species of ants keep differ aphides—some underground others on the surface; and Sir John suggests that to these differences of habit their distinctive specific colors may perhaps be due. He even fancies he detects in an intermediate species, preserved for us in amber, the common ancestor of one darker and one lighter modern kind. The ants also keep several other domestic animals, such as blind beetles. some of them, perhaps, as pets, but agreeable exudations. The numerous interesting facts on this subject, as al-

so on the question of slavery among ants, cannot be set down here even in the briefest abstract; readers must get | was made by the census authorities to the book for themselves, and they will find it teeming with scientific marvels produced in one year, the silk trade not unrelieved by characteristic being desirous of knowing the facts. touches of humor, from the first page It was found that the expenses would P. J. MONTGOMERY, M. D., to the last. In the matter of relative was learned, however, to show that tie, answering respectively to the hunting, the pastoral, and the agricultural stages among mankind while he can trace distinctions between more civilized and less civilized communihunting, the pastoral, and the agricul-tural stages among mankind; while, as regards slavery, he points cut a pro-gressive degeneration from certain war like races, which seem but recent-ly to have accorded that head a large races and the seem but recent-ly to have accorded that head a large races are races. ly to have acquired that bad habit,

down to degraded creatures which have lost even the instinct of feeding three dresses, one for the Empress themselves, and still more abject kinds Dowager of Wales, one which was mere parasites upon their former serfs.

the intelligence, the sense perception, and the moral character of his little proteges. On the whole, formican ethics, at least as exhibited in practice, appear to indicate a low collective tice, appear to indicate a low collective many years ago, there was much ex-hedonistic standard. The ants seldom citement in California in regard to the the ants as well as priests and Levites, attended with the formation of a lit-

recognition of friends was severely tested, and resulted in the discovery New Jersey, California and a few that they knew their own measures other states; a very small result when after a separation of nearly two years. it is considered that in 1870 there This recognition does not seem, how-ever, to be due to individual sequaint-forms alone, planted especially for ance, nor to the use of a distinctive silk raising.

him at the very head of all observers in this delightful field. Our versatile and accomplished naturalist, who and accomplished naturalist, who regards their senses, they can distinguished thing approaching to language. As word all over the United States. Price 50 cents, trial bottles 10 cents, july17dlw

ants, accordingly, the larger part of this amusing work is devoted. Sir instances of exact scientific method, and they go to convince us that on the whole these little creatures possess hardly any individual initiative, though perhaps one could hardly expect that they would shine in the construction of bridges or some of the other tasks

which their rigorous examiner set The part of the work devoted to bees and wasps does not entirely redound to the credit of those somewhat overrated and essentially heartless insects. Bees are industrious, no doubt; but they turn out to be stupid at finding their way, reckiess in the indulgence of their insatiable appoints for honey, wholly devoid of moral regard for the rights of others, and callously indifferent to the fate of their own sisters by blood and birth. They have no personal affection for one another, and even their devotion to their queen has been largely overestimated. But they can undoubtedly distinguish colors, and they show a great taste for blue, which are good points as far as they go, since to them we mainly owe the existence of petals in flowers. Upon this subject, and especially on their part in helping on the evolution of blue blossoms, the present vol-ume contains some curious and acute speculations. The famous tame wasp, which used to feed from her loarned owner's hand, comes in for a few words of recognition; and on the whole we are inclined to think better of her, morally and intellectually, than of her cousins, the bees. She came from the sunny south, and Sir John Lubbock tried to keep her alive through our English winter, but na-The relation of ants with various ture was too strong for him; she grew gradually numb and cold, and at last faded instantly away, through her sor-rowing master pathetically observes that her end appeared to him to be quite painless. She now occupies a

Thankfully Acknowledged.

DENVER, Col., June 6, 1881. H. H WARNER & Co.: Sirs-I have been troubled with kidney comwell man, thanks to your Safe Kidney and Liver Cure.
F. B. SEMPLE,

july17d1w Clerk American House.

Our Growing Silk Industry. from and Steel Bulletin.

A report just issued by the Silk the processes produces a coating of the processes produces. The reason any desired thickness. not grow at all unless infested by a the statistics of the fiscal year ending why this process is so much superior colory of ants, and in other cases the June 30, 1882, shows that the manuinsects are useful to their host by facture of silk goods has now attained killing off caterpillars and similar dethe highest point in its history in the lies in the fact that the coating is not structive enemies. Then there are United States. The value of the a scale, but is virtually made a portion the harvesting ants of Syria and India, goods made in the American factories of the substance treated. A singular as well as the still more curious agri-cultural ants of Texas, which clear a 000,000. This industry is peculiarly that a portion of rusted iron can be space of ground around their nest subject to great fluctuations. In bad from all weeds, and devote it exclu- times it will fall off one-half in a sin- the treatment, and be at once consively to the growth of a peculiar kind | gle year. In good times it will exof grass known as ant-rice. But the pand rapidly, even in the face of high chalk-mark be made on a bit of iron wages. During the sunny season of business prosperity following the return of specie payments it has grown year by year, and it has now reached a development of which those who are of the drivers and the blind foraging pushing its fortunes may well be proud. The American makers have the satisfaction of knowing that they have now doubled the product of the these small plant-lice as domestic ani-mals, milking them for the sake of the panic of 1873. The fact is the their honey-dew, which the aphides more gratifying because it is attended express when carried by the antennae with the circumstance that the gain in the importation of foreign silk goods by foreign makers since the year last referred to is almost nothing, and that the importations of many lines of goods is now being rapidly cut down. It is the opinion of prominent members of the Silk association that Europe can never compete with Asia in the production of raw silk. There appears to be one insuperable objection, the same which renders it so difficult to carry on the raising of raw silk in America as a regular industry. It is the cheapness and excellence of labor in Asia. Bancrott speaks of troduced into this country, and its "the superiority of labor" and the adoption here would seem to be almost "redundant population" required for the culture of silk, and these condi-manufacturers in this and other cities tions exist nowhere as they do in have applied to the English patentees China and Japan. Even in Italy the for the right to use the process. The silk-raisers cannot hold their own

against two countries where wages are twelve cents a day. Asia is therefore the source of princpal supply. The raising of raw silk in the United States has not reached the stature of a regular industry. An attempt learn the exact amount of the material ton enough of the material which she had raised and spun herself to make

which have fallen to the condition of presented to Lord Chesterfield, and one which she retained for her-The most novel part of our author's self. Many coats and dresses were wn researches is that which relates to made in Connecticut and elsewhere in colonial days from American raw silk, National flags were woven with it in 1830. There have been a great many interesting experiments, and, not show individual kindness to a friend, subject. The largest product was in though in this respect there seem to 1841, when it reached 30,000 pounds. be differences between one idiosyncra- There has lately been a revival of cy and other-good Samaritans among interest in silk cultureat Philadelphia, As a rule, the various members of a neat will behave decently well to their idea at heart. The total product at Rooms, 75c, \$1.00 and \$1.50 Per Day

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A Valuable Discovery in the Manner of Treating the Metal

has been discovered or practiced in this country which has been able to everome the inclination to exidation or rust. A process has, however, been perfected in England, and is in use in that country, and in France, Germany, and Belgium, which has over-come the cvil and madeiron absolutely rust-proof, And curiously enough the system of treatment requires the artificial rusting of the iron before it can be rendered rust-proof. The process is that known as the Bower-Barff process. It consists in artificially creating a coating of magnetic oxide of iron on the surface of the iron. Magnetic oxide of iron, as is well known, in its natural state is unaffected by exposure to the atmosphere. That fact led to a long series of experiments by Prof. Barff, of England, which were not wholly successful, save in the treatment of wrought iron, as a uniform coating of the magnetic oxide could be obtained. His process consisted in the treatment of iron and steel in an externally heated chamber to an atmosphere of superheated steam. Mr. George Bower and his son, Mr. A. S. Bower, simplified this method treatment by using internally heated chambers or ovens and using air heated to a high temperature in the place of steam. By a combination of the two processes there resulted the present one, which has been prosecuted in Europe for two years with the most complete success. The iron articles COUNCIL which it is designed to make rustless are placed in a fire-brick chamber. Connected with the chamber is a series of gas producers. The gas, as produced, is led along passages and mixed with air in a highly heated condition and consumed-the product being carbonic acid. This and a small quantity of free air onter the chamber and are partially deprived of their quite painless. She now occupies a place in that Westminster of deserving insects, the British museum.

oxygen by their contact with the heated articles. The result is the production of a coating of magnetic oxide, incorporated with the surface

of the iron. Over this there is, however, a thin coating of the sesqui-oxide of iron, or rust. plaint for four years. I am now a This process of oxidation occupies verted into a magnetic oxide. This deoxidizing process consumes a quarto any process of galvanization, enameling, or any other plan yet devised thrust into a chamber, subjected to verted into a rustless bit of iron. If a subjected to this treatment, or if any of the sand from the foundry clings to the material, it makes no difference in the success of the exidation, as the process goes on underneath these foreign substances as effectually as though the iron were perfectly clean.

After treatment in this way the iron comes from the chambers of a French gray color with shades deepening to black. It can then be bronzed, gilded, or silvered, and paint applied will remain on it in the same way that it does on wood or stone without flaking off, as it does from iron that does not have the magnetic exide coating. The discovery is pronounced by the iron men, engineers, and plumbers of the old world as one that will create a complete revolution in the iron business, as iron of all kinds for architectural purposes, iron household utensils, gas, steam, end water pipes can be thus treated, and all danger of their failing of their designed purposes by reason of rust can be removed. The process is soon to be inmanufacturers in this and other cities process was brought to this country by Prof. George W. Maynard, the metallurgical engineer, of this city, who has investigated the process in Enland.

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I should be pleased to have those desirous of purchasing to call and examine my stock. I will guarantee satisfaction and warrant all work.

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