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Want and Exchange Column

Advertisements for this column will be received at the rate of 35 cents for 25 words, each additional word one cent. Payments strictly in advance, as the amounts are too small to permit of bookheeping. Write copy of ad. on a separate sheet from any other matter, and on one side of the paper only. Say plainly how many times ad. is to be inserted. Matter must reach us not later than the 23rd of sach month. each month.

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HOTEL ACCOMMODATION

ALBION HOTEL, TORONTO-Rates \$1.00 and \$1.50 per day. MRS. JOHN HOLDERNESS, Proprietress.

cans have done much toward a scientific study of the bee, but what this nation lacks on that side has been more than made up in practical appliances and methods. The source to which every beekeeper should go for a knowledge of the aber, with his mong these as could do work ite of an afflicst men of little ge. Later we rzon, the founnogenesis; Von nd Weismann. gstroth, Cowan get list, for they could be labits of the bee is not a book written by any of the men that I have named, nor of any other man, but the one place to study the habits is beside a bee hive. First-hand information, properly obtained, is worth more than any amount of second-hand facts, and here, as everywhere, we an profitably follow the advice of the selebrated naturalist, Agassiz, "Study of the behavior of the behavior of the study of the behavior of the selebrated naturalists."

ie list, for they The study of the behavior of animals is ure. There are tot easy. I am well aware that many ork has helped them. I measier task than to study the habits of he bee, but there are difficulties which

make such work very trying and unsatisfactory.

In the first place, it is often hard to see just what a bee is doing. Let us take as an example what happens when we shake the bees from a frame in front of the hive entrance. In a short time a few bees nearest the entrance turn their heads toward the opening and begin to fan their wings; others soon do the same, and before long almost every bee is fanning as if its very life depended on it. Gradually they begin to move toward the entrance and enter the hive. Every bee-keeper has seen this repeatedly, especially when hiving a swarm, but how many could tell what is going on among the bees? This action has been referred to as the "joyful hum" of the bees, as expressive of their pleasure at finding again the hive in which they belong. Others have said that the noise of those nearest the hive is heard by the bees farther away, and they know where the colony is located. Whether bees can hear or not is a question which need not be discussed here, but these conclusions are inaccurate because the observations are incomplete. If you will carefully notice this particular action at the next opportunity you will see that the abdomen is raised to an angle of about forty-five degrees, and that the last segment is bent down, exposing a light yellow strip between it and the next anterior segment. On this yellow area there appears a glistening drop of some fluid, and when the bee begins to fan a very peculiar odor is easily detected, even by the human nose. Bees are, as is well known, governed largely by scent, and this particular action consists in the fanning back of the odor produced by this liquid. The difficulty in earlier observations was that the whole attitude and action was not observed, and consequently the conclusions were incorrect. It is not so much because this is hard to see, but because the observers were satisfied with a partial observation, that we long remained ignorant

indeed who his debt of have worked r apiculture is nd would not ere it not for of Aristotle, Bonnet, Schivell known to d by bee-keepthrew on the all of them. ely few Ameri