of this important habit. We pride ourselves on our ability to see things, yet any person who has investigated the subject knows how difficult it is to get two people to tell the same story concerning any observation; and this is not because their eyes do not see alike, but because they perceive only part of the event and let their imaginations fill up the gaps. In no place is this human fault more noticeable than in work on observation of habits, and as a result I feel free to say that this is one of the most difficult problems in the study of animals.

A second difficulty is that of giving reasons for the things observed. We are not satisfied with mere observations of actions unless we can see why they are performed, for otherwise the action is meaningless. Since the bee is constructed on a plan so totally different from ourselves, we often are unable to interpret the habits, and doubtless many important things are still unknown for this reason.

A third difficulty, and one to which too much attention cannot be called, is the difficulty of distinguishing between verifiable and unverifiable truth. As an example, let us take the action of the worker bees toward the queen. The actual observation is this: The workers surround the queen on the comb and touch her with their antennæ. Whenever she approaches a worker as she moves over the comb the worker turns toward her and at once begins touching her with its antennæ. So much all observers see, but here they separate. One says the workers hold the queen in greatest respect, and that they care for her and caress her because they know that on her depends the life of the colony; another observer denies all ability of a worker bee to feel any affection or similar emotion. Now who is right? No one can tell, for at the present time this is un-The actual movements are verifiable. verifiable by any observer, but when we try to enter the realm of unverifiable truth, where our imaginations are our only guides, and consequently our results are worse than worthless. This is the

Oct. 1908 rock on which

shipwrecked. way to eradica ments from th marvellous adv very best write scarcely a bee not contain son As another exa quote from one the author of w unmentioned:

"The antennæ afford means of the bee says all relatives.

"Watch two frame; they inst they come from sues such an out

DON'T give Don't go Don't ruin yo "dope" and |

Your lungs readily as a c if you give th What they more pure air destroy the m

the disease. All competen ognize that Go and last requi all diseases of Our method

been successful sands of casesvigorates and the lungs, and stroys the geri fected cells by and allows Nat LUNG BATH C to every cell creases your I first day of its cians endorse only rational m WILL

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Apiarist

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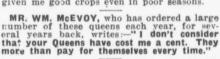
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