

conviction is that they take after their grandfather. The only way I have of judging of that is from the marking of progeny of the queen. If the grandfather has any Carniolan blood in him the queen will produce some pretty Carniolans, if she is an Italian queen she will produce some like herself, and all grades between mullatoes, darkies and white.

Mr. Heise: Carniolan bees—is that the worker or the drone?

Mr. Hall: I mean both, but the drone don't take after their father in their characteristics or in their color, that is my observation. My observations may not be correct. It should be answered by the people, because one man's opinion is not sufficient, for example, in one case in Detroit I was very anxious to know if the bees would winter in a cellar, and I asked the question, does the furnace affect bees in the cellar in an adjoining room? The answer was simple, yes, and not beneficially. I came home, and thought I was very much dissatisfied. My experience since then is that it affects them beneficially. If a man gives his opinion without any other discussion you may get the wrong impression.

Mr. Stewart: You have partitioned off your cellar with a furnace in it. I have a cellar I cannot use for bees on account of being too warm; the thought came to me if I put a brick wall through the centre could I use it for bees?

Mr. Hall: It would affect them beneficially; that has been the way with mine.

Mr. Walton: Surely we as bee-keepers are endeavoring to promote apiculture, and I think nearly all the interest centres around the queen, is it not necessary that we know something about the mating of that queen,

and how it affects her progeny?

Mr. Hall: I have given you all I know about it.

Mr. Heise: According to what we have accepted as an established fact the drone egg has never come in contact with the male influence, consequently how can it be that the drone progeny can possibly be affected by her mating? If that is not true it alters the the circumstances. Some are questioning whether that is a fact or not?

Mr. Hall: Are you not one of the class who doubt it?

Mr. Heise: Not in the least.

Mr. Hall: I doubt it, and I have doubted it all along. It was said that the egg was unfertilized, and the mating of the queen does not apparently affect that, because we take it for granted the father of the drone is the grandfather.

Mr. Heise: Who is the grandfather of the drone?

Mr. Hall: The father of the queen. We want to mate our queens with the class of drones we like best, because we calculate those queens to produce us drones as well as queens and because in our future breeding we get the potency of their drones.

Mr. Walton: I would like to know whether bee-keepers would like to breed from unfertilized drones? For my part, I certainly would not. It seems to me it is something we ought to understand if we are raising queens for our own use? How do the other breeders look at the matter?

Mr. Hall: They look at it that the drone has no effect on the drone progeny of the queen, but we must look a little further on for the next crop of queens we get; they affect the second crop of queens. If the drone bee is the grandfather as well as the