facts that I have observed, it suggested itself to me last July that this membrane may contain scent glands, and these, when the membrane is exposed, are stimulated to produce a certain scent which the fanning of the wings helps to distribute, and which forms an important means of communication, by attraction, between the members of a swarm or colony.

One may frequently see a few bees standing on the alighting-board of a hive humming and protruding the above-mentioned membrane, especially during and after a general flight on a warm day in spring. If these are watched it will be noticed that they cease humming occasionally and walk a few steps nearer the entrance, where a halt again is made, and then the protrusion of the membrane and the huming are recommenced with greater force. These actions are continued alternately until the bee often only finally stops them far inside the entrance. This process is evidently not for the purpose of ventilation. It is apparently the instinctive action of any bee that has, after more or less difficulty, found the entrance of her hive, and while it is evidently an act of pleasure, it also answers the far more important purpose of indicating the position of the entrance to others outside who may be still searching for it; and thus the one or two bees that "call" may be the means of guiding into the hive hundreds of their comrades that otherwise might have perished outside. It is interesting to note that when a far larger number of their comrades are in search of the hive-entrance, as in the case of a swarm, the "calling" instinct is much more easily excited, and its effects are more marked than at other times. One instance that came under my notice when I first suspected the function of the above-mentioned membrane, last summer, struc: me as being very re-

markable, but probably many bee est hu keepers can recall similar experiences. tree, a A large and restless double "cast" board: was hanging near the ground in an there old quick-hedge behind my apiary bees The bees had "balled" two or three around if not all, of their queens, and seemed nose de very excited. I did not know from caller what hives the swarms had come, so a some I fetched an old fertile queen I hap bough pened to have in a cage, and held bee-wo the cage to the swarm. Twenty thirty bees immediately seembly immediately resemb bees gathered on the cage and set up cidme the well-known "joyful hum," pro the la truding the before-noticed membrane urbed to its fullest capacity. I then tid hin which the cage, with the bees on it, up in a y the skep, which I placed on a large board seed hoon the ground close by, and shooks that it few bees on to the board. These also started humming vigorously, every pless one of them, and raising their abdo me mo mens they protruded to the utmost ong, the membrane. I remember being struck with the fact they did not in mediately run into the skep as one sound would have expected; but they all and pl stood still, clearly for the purpose a attracting their comrades composing the cluster. But this is not the point I wish to illustrate. As soon as the bees on the board began "calling the whole cluster, though over a for away, was visibly affected, and the bees began rushing together, forming "points" in various directions. On led point" was formed in the direction of the ground, and the bees at the "point" (which was nearest to board), became more excited the those at the other "points." The "point" quickly extended down tree and along the ground until it w only a few inches from the "calling bees on the board. The bees at the "point" then began to "call" and presently the magnificent sp tacle presented itself of a broad street of bees pouring pell-mell in the gre