posed by for or against the use of the For-Wis., a malin treatment. From your letter succeed I understand that formalin disinon the ection, has not been effectual in cass of foul brood where the cells had National been filled with honey, but I must S. Mr. say that in a number of experiments as sixty have actually noted a destruction ready to of the spores of B. alvei in cells fillting, and ed with honey. This may seem to ou rather an extravagant claim to board make for Formalin disinfection, but it be very is no more striking than many of the ed in m ax-periments performed by Dr. M. P. even i Ravenel and S. H. Gillilan, Bacterio worker, bgists to the State Live Stock Sanin every vary Board of Pennsylvania, and of st inter the Veterinary Department in the a most University of Philadelphia. These i, and centlemen in a long series of experi-f he ments on the working of Formrlin ind using only one ounce of the rug to every one hundred cubic ogist det of space killed the cultures of ege, he various diease-producing germs (a-ong them the spores of the Anthrax llowing erm) which were placed between test in uslin, put into sealed paper envelfailure pes and placed between layers of collen blankets. This is certainly severe test and speaks well for the ficiency of the Formalin vapor.

> cases where the diseased h, 1903 atter has become dried up and adering to the side of the cells, I am unfident that Formalin gas, if proply applied, will kill the spores, ren when situated in these dried-up asses. However, it might be adeceira sable in such cases to sprinkle the h with e combs with water as the disinilin an ting power of the gas seems to be eater when there is moisture and I hav me warmth, (not over 100°F.), 1150 esent.

ional I do not think that temperature n be anything to do with the germin-Is non of the spores in the dried-up that all brood matter unless moisture into ad suitable food are present.

Mr. Weber states "The trials that the trials I made last year in the end of August, during September and October, did not show up any signs of foul brood in the early part of spring until the the extremely hot weather set in, which seemed to melt this dried-up matter, exposing the germs, and, consequently bringing on a re-action of the disease." I do not think that this could take place unless moisture was present, as these dried-down masses, which are largely composed of the chitinous portions of the larvae, further, one finds, as a rule, comparatively few living spores in this matter. If foul brood was in the neighborhood, or in the apiary. there is a possibility of re-infection of a treated hive from such a source.

I think that a large number of failures have been due to lack of proper precautions in obtaining Formaldehye of proper strength, or in not disinfecting in tight boxes, or in not leaving the gas long enough in the disinfecting chamber.

I noticed sometime ago that there was some discustion as to the name of the drug, The name "Formalin" was given by the Chemische Fabrik auf Actien Vormals E. Schering, of Berlin, Germany, to "A Forty per cent. Solution of Formaldehyde in water." On account of the brevity and convenience of the name "Formalan has been used more generally than "A Forty per cent. solution of Formaldehyde gas." Formaldehyde is a gaseous body which is prepared by subjecting Methyl alcohol to oxidation, It is readily absorbed by water and for this reason is put on the market in form of an aqueous solution. I am giving this explanation because the firm of Schering claim the name "Formalin" as a trademark.

Very truly yours,

F. C. Harrison.