

trict Association of bee-keepers they will have the privilege of appointing a local inspector of apiaries, subject to the approval of the Minister of Agriculture, the terms of remuneration to be fixed by the Minister, said sub inspector to be paid out of the Provincial grant for the inspection of bees. Also to amend the Act to prohibit all inspection of apiaries after the 15th. day of July in each year."

The address by Mr. James Martin, Hillsdale on "How to Prepare for and Winter Outdoors" contained some valuable information on one of the most important points in bee-keeping and was discussed at length.

The question drawer was in charge of Mr. J. E. Holt of Newton Robinson who very ably and satisfactorily answered the many questions.

Some motions regarding minor matters were adopted after which the following officers were elected for 1904. President, J. R. Morrison, Guthrie; Vice President, James Martin, Hillsdale; Secretary Treasurer, Denis Nolan, Newton Robinson; Directors, North. Henry Johnson, Craighurst; East, C. H. Wilson, Hawkestone; South J. L. Warnica, Painswick; Representatives to Farmers' Institutes, South, J. E. Holt, Newton Robinson; East and West, A. A. Bell, Oro Station; Central, James Martin. Hillsdale: Delegates to Ontario Bee Keepers' Association Convention, J. C. Morrison, Guthrie and Denis Nolan, Newton Robinson.

Denis Nolan, Secretary.

Mating in Confinement.

Broad-Gauge Plans for Experimenting Projected by the University of Pennsylvania—
M. F. Reeve.

The Botanical session of the University of Pennsylvania in its investigation of the flora of the United States is about to begin a movement which will be far-reaching and of

particular interest to the American bee keeper.

Two of the professors have become interested in the subject of bee keeping through a series of experiments in which the noted expert queen breeder, Mr. Pratt, of Swathmore took an active part, relative to the mating of queens in confinement.

These experiments have been carried along quietly for several months in a building which had been put on the University grounds.

The professors who aided in the breeding tests propose to follow the honey flow from one State to another throughout the country, beginning with the earliest, and obtaining through correspondence or personal visits, samples of all the plants, grasses trees, and shrubs from which nectar is gathered by the honey-bee, together with the time when the flower or blossoms expand. In this way a vast amount of important data is expected to be accumulated in investigation and publication. The work, it is said will not take in Cuba, Porto Rico or the new possessions of the Sandwich Islands and the Philippine Islands.

The men who will undertake the work are expert scientists.

The experiments in the fertilization of queens in confinement are partly the outcome of the investigations of one of the professors who has taken up the question of parthenogenesis in connection with the history of plant lice. From this he became interested in the life of the honey bee and with the able assistance of Mr. Pratt, who has been a student of entomology from boyhood, the experiments in fertilization were begun.

Mr. Pratt is convinced that within a short time he will have conquered the problem on which he has been

This is a common attraction and has a would be poultry