

Mr. R. B. Willson, formerly extension specialist in beekeeping in Mississippi, has been transferred to Cornell University where he will continue the extension work carried on formerly by Mr. George H. Rea.

The annual 'beekeepers' Chautauqua held by the University of Wisconsin will be held at Green Bay, Wisconsin, the week beginning August 7th. E. F. Phillips, E. R. Root, George S. Demuth, S. B. Fracker, H. F. Wilson and C. P. Dadant are expected to attend and take part.

On August 21 and 22 there will be meetings in Tennessee arranged for the Southern itinerary of beekeepers. On the 21st the meeting will be held at Clinton, Tennessee, and the members of the East Tennessee Beekeepers' Association will be present. On the 22 the meeting will be held in the queen rearing yard of John M. Davis of Springhill, Tennessee, and the members of the Tennessee Beekeepers' Association will be present. The program for these meetings is being made out at this time. Honey production in the State is considerably below normal this year, due to the extended rainy season in the spring.

The following appointments have been made in the Bee-Culture Office of the Bureau of Entomology for the summer months: Mr. A. D. Shaftesbury to work on the aging of worker bees; Mr. Bruce Lineburg to work on the responses of worker bees to light; Mr. Bernard Kurrelmeyer to work on the transmission of lights of various colors through honeys, for the purpose of establishing color standards for extracted honeys; Mr. L. M. Bertholf to examine bees to determine whether the mite causing the Isle of Wight disease is present; Miss Effie Ross, Miss Margaret Swigart, Miss Winifred Hull and Mr. Paul Smith, temporary assistants. The first four named are graduate students at Johns Hopkins University.

## Department Of Insecticides

It is planned to review in a brief way, from month to month, the progress in insect control, and especially to record the new insect controls and new insecticides. The object is to place this information in a concise form before entomologists as promptly as possible since it is becoming difficult for those interested in insect control problems to keep in constant touch with the newer discoveries. It is hoped that we may ultimately standardize, as far as is practicable, the control measures and particularly formulas of standard insecticides. The need of such a standardization was recently called to our attention when we had occasion to examine many publications containing insecticide formulas.

Authors are requested to promptly send to the undersigned all papers giving information on new insect controls and insecticides.

The past year has been noteworthy for progress, or at least stimulation, in insecticide development. Probably no problem in control by insecticides has received as much unusual attention and interest as the dust insecticides, particularly the comparative value of dust and liquid treatments and the use of nicotine dust. As a result several companies have placed on the market from 3 or 4 to 29 or more dusting combinations. Following the interest in dust insecticides there has been a corresponding progress in dusting equipment, resulting in the development of several unique and useful machines. It is impossible at this early date to predict the outcome. There are indications that dusting may find usefulness in the control of insects and diseases attacking orchard crops, but there is a larger outlook and a more promising field for dust treatments in the control of vegetable crop pests.

The creation of the Plant Protection Institute and the untiring labors of its present chairman have played an important part in the interest in insecticides now being shown. It is hoped that this organization may continue to point the way and call to the attention of entomologists the need of investigations along various lines and especially to correlate the work being done in the various parts of the United States. Summer sprays for the control of scale insects is much needed at the present time, and reports being received daily illustrate the little we know as to the cause of summer injury by lime-sulphur and certain other summer sprays.

Publications have recently shown an interest in the development of paraffine oil sprays, both for dormant use and for summer applications.

There is need for studies on the further use of such prominent "special-use" insecticides as sodium fluoride and bichloride of mercury. The almost universal use of paradichlorobenzene for the control of the peach tree borer is evidence of the great need of underground fumigants. The calcium arsenate-gypsum control for the striped cucumber beetle, discovered by Messrs. Houser and Baldus is an achievement of great value. It might be of interest to note that Mr. H. A. Cardinell of the Missouri Extension Department, reports (Proc. Amer. Soc. for Hort. Sci., 1921, pp. 123-130) experiments against the striped cucumber beetle and observes that a mixture of one pound of arsenate of lead,  $\frac{1}{2}$  pound of Paris green, and 15 pounds of hydrated or air-slaked lime proved to be more effective against the cucumber beetles, was easier to apply, and gave less injury from burning, than did the calcium arsenate-gypsum mixture. Another insecticide, suggested several years ago by Dr. Wm. Moore, (Jour. Econ. Ent., vol. 11, June 1918, p. 341) but which seems not to have been given sufficient consideration by entomologists is nicotine oleate. In Indiana this insecticide has been tested by Mr. H. F. Dietz, and the writer, and results to date indicate its usefulness, particularly for greenhouse crops.

The subject of spreaders and adhesives is one of considerable interest to all entomologists and the unusual developments along this line the past year are very promising.

May 22, 1922

J. J. DAVIS

#### SUMMER MEETING OF THE ENTOMOLOGISTS OF THE NORTHEASTERN PART OF THE UNITED STATES

On July 26 to 28 the Entomologists of the northeastern part of the United States held a meeting in the western fruit section of New York State. On Wednesday morning about 18 autos left Lockport, N.Y., and toured thru fruit sections of Niagara, Orleans, Monroe, Wayne and Ontario Counties. This tour occupied two days and the results seen on dusting and spraying were highly valuable from an entomological standpoint.

Wednesday evening an informal get-together was held at the Seneca Hotel, Rochester. At this meeting Dr. D. N. Borodin of Russia gave a brief resumé of entomology and conditions as they exist in Russia today. Dr. Headlee, the chairman, appointed a nomination committee and Mr. Burgess reported on the coming annual meeting to be held in Boston in December, 1922.

Thursday evening a splendid banquet was held at the Seneca Hotel in Geneva. Some sixty persons attended. The chairman, Dr. T. J. Headlee called on C. P. Lounsbury of South Africa, who gave an informal discussion on the early and present day development of entomology in South Africa.

After this splendid talk the question of dusting for the control of insect pests was presented. The discussion was opened by Dr. W. Rudolfs of New Brunswick, N. J., who gave us some valuable chemical data on contact insecticides. This talk was followed by Prof. P. J. Parrot, who gave us a review of his wide experience in the control of various pests with dusts. After considerable discussion, the question was brought to a close and Dr. E. D. Ball was called on for a few remarks. He presented some important views on the trend of entomology and brought out some of its needs. His comments on the success attained in raising the salary of scientific workers connected with the government bureaus was encouraging.

The chairman concluded the meeting by calling for a report from the nomination committee. The following officers were nominated and elected to act for the coming year: Prof. G. W. Herrick, Ithaca, N. Y., as chairman, and M. P. Zappe, New Haven, Conn., as secretary.

Friday morning a tour was made through the experimental plats on the grounds of the Geneva Agricultural Experiment Station. From there a run was made to Ithaca where we lunched together and then visited the department of Entomology at Cornell University. We were also entertained by Dr. and Mrs. J. H. Comstock in their home.

All told the annual summer meeting was a decided success. All of those fortunate enough to attend, wish to express their appreciation of the manner in which the meeting was conducted. Many favorable comments were made on the splendid entomological work that is being conducted by entomologists in the state of New York.

The following attended the meeting: C. P. Lounsbury and wife, South Africa; A. L. Quaintance, Washington, D. C.; D. C. Heim, Sunbury, Pa.; G. E. Sanders, Louisville, Ky.; T. J. Headlee, New Brunswick, N. J.; R. S. Slate, Chaumont, N. Y.; L. T. Barnes, Elmira, N. Y.; F. D. Gorton, Rochester, N. Y.; S. W. McNall, Rochester, N. Y.; G. H. Wakeman, Middleport, N. Y.; D. E. Fink, Riverton, N. J.; B. H. Walden, New Haven, Conn.; M. P. Zappe, New Haven, Conn.; P. Garman, New Haven, Conn.; A. J. Farley, New Brunswick, N. J.; W. Rudolfs, New Brunswick, N. J.; A. Peterson, New Brunswick, N. J.; M. Tower, Middleport, N. Y.; F. J. Sutton, Middleport, N. Y.; W. P. Hays, Frankfort, Ind.; H. Doane, Rochester, N. Y.; P. J. Parrott, Geneva, N. Y.; E. N. Cory, College Park, Md.; E. P. Felt, Albany, N. Y.; W. J. Schoene, Blacksburg, Va.; C. R. Crosby, Ithaca, N. Y.; J. B. Palmer, Ithaca, N. Y.; S. R. Hearn, Ithaca, N. Y.; H. Glasgow, Geneva, N. Y.; A. L. Pierstorff, Rochester, N. Y.; H. W. Fitch, Ithaca, N. Y.; G. E. Smith, Albion, N. Y.; H. E. Thomas, Ithaca, N. Y.; C. F. W. Muesebeck, Melrose Hds. Mass.; C. W. Collins, Melrose Hds., Mass.; G. F. MacLeod, Geneva, N. Y.; J. R. Stear, Chambersburg, Pa.; L. F. Strickland, Lockport, N. Y.; S. W. Harmon, Geneva, N. Y.; T. T. Haach, North East, Pa.; D. M. DeLong, and wife, Columbus, O.; D. F. Barnes, Melrose, Mass.; P. T. Barnes, Harrisburg, Pa.; T. L. Guyton, Harrisburg, Pa.; F. L. Holdridge, Lancaster, Pa.; F. J. Welb, Barker, N. Y.; A. F. Burgess, Melrose Hds, Mass.; E. D. Ball, Washington, D. C.; D. N. Borodin, Russia; F. Z. Hartzell, Fredonia, N. Y.; H. E. Hodgkiss, State College, Pa.; J. L. Horsfall, Philadelphia, Pa.; S. W. Frost, Arendtsville, Pa.; M. D. Leonard, New York City.; W. A. Ross, Vineland Station, Ontario.; B. A. Porter, Washington, D. C.; and G. W. Herrick, Ithaca, N. Y.