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No. 1

Proceedings of the Twentieth Annual Meeting of the Association of Economic Entomologists

The twentieth annual meeting of the Association of Economic Entomologists was held at the University of Chicago, Chicago, Illinois, December 27 and 28, 1907.

For convenience the report has been prepared in two parts, the first being devoted to the business transacted and the second containing the addresses, papers and discussions.

PART I

The meeting was called to order by President Morgan at 10 a. m., Friday, December 27, in Room 24, Zoölogy Building. The average number of members and visitors present during the meeting was ninety. The members attending were as follows:

C. E. Bartholomew, Ames, Iowa; G. M. Bentley, Knoxville, Tenn.; F. C. Bishopp, Washington, D. C.; W. E. Britton, New Haven, Conn.; F. E. Brooks, Morgantown, W. Va.; C. T. Brues, Milwaukee, Wis.; Lawrence Bruner, Lincoln, Neb.; A. F. Burgess, Washington, D. C.; R. S. Clifton, Washington, D. C.; Mel. T. Cook, Newark, Del.; E. C. Cotton, Knoxville, Tenn.; J. J. Davis, Urbana, Ill.; E. B. Engle, Harrisburg, Pa.; E. P. Felt, Albany, N. Y.; H. T. Fernald, Amherst, Mass.; James Fletcher, Ottawa, Canada; S. A. Forbes, Urbana, Ill.; G. H. French, Carbondale, Ill.; A. A. Girault, Urbana, Ill.; B. H. Guilbeau, Baton Rouge, La.; C. A. Hart, Urbana, Ill.; T. J. Headlee, Manhattan, Kan.; W. E. Hinds, Auburn, Ala.; W. A. Hooker, Washington, D. C.; L. O. Howard, Washington, D. C.; W. D. Hunter, Washington, D. C.; Fred Johnson, Washington, D. C.; H. A. Morgan, Knoxville, Tenn.; Henry Ness, Ames, Iowa; Wilmon Newell, Baton Rouge, La.; J. F. Nicholson, Stillwater, Okla.; Herbert Osborn, Columbus, Ohio; Edith M. Patch, Orono, Me.; E. F. Phillips, Washington, D. C.; J. L. Phillips, Blacksburg, Va.; W. D. Pierce, Washington, D. C.; A. L. Quaintance, Washington, D. C.; W. A. Riley, Ithaca, N. Y.; A. G. Ruggles, St. Anthony Park, Minn.; W. E. Rumsey, Morgantown, W. Va.; J. G. Sanders, Washington, D. C.; E. D. Sanderson, Durham, N. H.; E. R. Sasscer, Washington, D. C.; Franklin Sherman, Jr., Raleigh, N. C.; J. B. Smith, New Brunswick, N. J.; R. I. Smith, Raleigh, N. C.; H. E. Summers, Ames, Iowa; T. B. Symons, College Park, Md.; E. P. Taylor, Mountain Grove, Mo.; James Troop, Lafayette, Ind.; R. A. Vickery, St.

Anthony Park, Minn.; F. L. Washburn, St. Anthony Park, Minn.; R. L. Webster, Urbana, Ill.; J. A. West, Urbana, Ill.; H. E. Weed, Chicago, Ill., and E. L. Worsham, Atlanta, Ga.

The following visitors were present:

C. C. Adams, Chicago, Ill.; G. G. Ainslie, St. Anthony Park, Minn.; J. C. Bradley, Ithaca, N. Y.; C. R. Crosby, Ithaca, N. Y.; J. R. Field, Boise, Idaho; J. C. Hambleton, Columbus, Ohio; J. D. Hood, Urbana, Ill.; P. L. Husted, Blauvelt, N. Y.; E. J. Kraus, Washington, D. C.; H. H. Lyman, Montreal, Canada; J. F. McClendon, Columbia, Mo.; J. G. Needham, Ithaca, N. Y.; L. M. Smith, Urbana, Ill.; L. R. Taft, Lansing, Mich.; Mrs. E. P. Taylor, Mountain Grove, Mo., and H. F. Wilson, Urbana, Ill.

The American Association of Nurserymen was represented by its President, Mr. J. W. Hill, Des Moines, Iowa, and by Col. C. L. Watrous, Des Moines, Iowa, Prof. John Craig, Ithaca, N. Y., and Mr. Orlando Harrison, Berlin, Md.

President Morgan called First Vice-President Summers to the chair while he presented the annual address.

The report of the Treasurer was read and referred to the auditing committee.

The Secretary reported that as no program committee was appointed at the last meeting, he had made up the final program and it had been printed and distributed. He also reported for the committee appointed at the last meeting to prepare and forward certificates of membership to the foreign members, and stated that this had been done. Several acknowledgments were read to the Association showing that the certificates had been received and were greatly appreciated.

The Secretary stated that he had made an attempt to codify the constitution, in accordance with a resolution passed at the last meeting, but found it very difficult to do so on account of several contradictory amendments. He therefore suggested that a special committee be appointed to revise the constitution and report, so that action could be taken at the next annual meeting.

By vote of the Association the report of the Secretary was accepted.

On motion it was voted that the chair appoint a committee of three to revise the constitution.

The Secretary read a list of proposals for membership which he had received and it was referred to the committee on membership. He also reported that the following members of the Association had resigned during the year: J. M. Aldrich, Moscow, Idaho; H. P. Gould, Washington, D. C., and Gerald McCarthy, Raleigh, N. C.

In view of the distinguished work which is being done in Crimea by Prof. Sigismond Mokshetsky, whose name had been proposed by Dr.

Howard, it was moved and carried that, as a special honor, he be elected a foreign member without the formality of having his name referred to the membership committee.

The President announced the appointment of the following committees:

Membership—Messrs. Summers, J. B. Smith and Forbes.

Resolutions—Messrs. W. D. Hunter, Washburn and Sanderson.

Nominations—Messrs. Osborn, Felt and Newell.

Auditing—Messrs. Sherman and Fernald.

Constitution—Messrs. Burgess, J. B. Smith and Symons.

As the standing committees elected at the last annual meeting were not ready to report, no further business was transacted until the afternoon session.

On motion of Mr. Symons, it was voted that the representatives of the American Association of Nurserymen, who had been invited to attend the meeting, be given the privileges of the floor.

Mr. Newell, the representative of the Association of Economic Entomologists on the joint committee on national control of introduced insect pests, presented the following report:

To the Association of Economic Entomologists:

At the last annual meeting, this Association elected one member to act on a joint committee on legislation, to be composed of one member each from the Association of Economic Entomologists, the American Association of Nurserymen and the Association of Official Horticultural Inspectors.

The members of this joint committee have been in correspondence with each other during the year and have today held a meeting at which a definite plan for securing uniformity in the certification of interstate shipments of nursery stock, has been decided upon. While this committee was elected with power to take all advisable action toward the end in view, nevertheless, the members feel that if the plan now decided upon by them be formally approved by the entire Association of Economic Entomologists, the legislation in view will be much more easily secured.

The committee asks your endorsement of the following plan of procedure:

A—Resolved, That the Secretary of Agriculture should be empowered to make regulations governing importations liable to harbor insect pests or plant diseases; to require such importations to be accompanied by a certificate of a duly accredited entomologist of the country in which said shipments originate, or, in the absence of such a certificate, to make inspections of such shipments, by competent agents, at the point of destination, and that sufficient appropriation should be made for this purpose by Congress.

B—1. That Congress be asked to enact a law empowering the Secretary of Agriculture to issue certificates of nursery inspection, as nearly uniform as possible, to all nurseries in the United States engaging in interstate trade, upon proper inspection of such nurseries by duly authorized representatives of the United States Department of Agriculture, or by State officials approved by the Secretary of Agriculture for that purpose, and that sufficient appropriation be made therefor.

2. That all state or territorial officials in charge of nursery inspection be urged to accept these certificates at their face value, and that in states where laws are now in force which will not allow the acceptance of such certificates, the inspection departments be requested to endeavor to secure such state legislation as will make this possible.

C—That Congress should authorize the Secretary of Agriculture to proceed to exterminate or control imported insects or plant diseases, or any insect previously native to a restricted locality, but which may become migratory and threaten the whole country, whenever in his judgment such action is practicable, and that an appropriation be made for this purpose as a reserve fund for emergency use against any such pest which may arise.

The joint committee proposes to have two bills prepared for introduction into Congress; one of these embracing the subject matter of sections A and B, and the other embracing only the subject matter of section C, and that if the passage of both measures be found impracticable or impossible then all efforts be concentrated in the attempt to secure the passage of the bill involving the certification and inspection of imports and the control of nursery stock shipments entering into interstate trade, as above outlined.

Respectfully submitted,

WILMON NEWELL,

Member of Joint Committee.

It was moved and seconded that the report be received and that the recommendations of the committee be endorsed by the Association.

Mr. J. B. Smith favored laying the report on the table until it could be more thoroughly examined by the members, as he considered it unwise to take hasty action on the matter.

In reply Mr. Newell stated that the report is practically the same as that endorsed by the Association at the last annual meeting. The reason for desiring immediate action was that a number of the representatives of the nurserymen were obliged to leave the city that evening and, as they desired to have a bill drafted at once for presentation to Congress, they wished the further endorsement of the Association at this convention.

After a brief discussion the motion prevailed.

Mr. Hill, President of the American Association of Nurserymen, thanked the Association for the endorsement of the report and stated that the action taken would be of great assistance to the committee in securing the desired legislation.

The report of the Committee on Nomenclature was presented at the Saturday morning session as follows:

REPORT OF THE COMMITTEE ON NOMENCLATURE.

Your committee on nomenclature begs leave to report as follows:

First, that no additional list of names for final adoption is submitted at this meeting.

Second, that we recommend that the lists previously adopted be brought

together and published in full in the next proceedings, and also printed by the society in separate pamphlet form with a summary of actions concerning the use of common names adopted at previous meetings, for distribution to all members of the society, to agricultural journals, members of the Entomological Society of America and such other parties as the secretary and the committee on nomenclature may deem wise.

Third, that the use of these adopted names be again urged on all parties in publications of an economic character.

Your committee would also call attention to the action of the International Congress of Zoölogists in regard to the fixing of generic types, such action in substance being that a generic type once fixed or designated by whatever process is to stand as the type.

Respectfully submitted,

HERBERT OSBORN.

F. M. WEBSTER.

It was voted that the report be accepted and the recommendations adopted by the Association.

Mr. Sanderson presented a plan for publishing a journal on economic entomology. He stated that on the previous evening a number of the members who were interested in the matter had met and decided to form a company for the purpose, provided a satisfactory arrangement could be made for the journal to become the official organ of the Association. He presented a resolution in the form of an agreement for the consideration of the meeting. After some general discussion it was voted that the chair appoint a committee of three members to investigate the matter and report at the afternoon session.

The following committee was appointed: Messrs. J. B. Smith, Osborn and Bruner.

It was voted to make the reports of committees a special order of business, to be called up at 4.30 p. m., and that arrangements be made to hold a session at 8 p. m. to finish the reading of the papers remaining on the program.

At 4.30 p. m. the committee appointed to investigate the proposed journal of economic entomology presented its report, which endorsed the resolution presented at the morning session by Mr. Sanderson.

A brief discussion followed in which Mr. J. B. Smith called attention to the fact that this marked a complete change in the previous policy of the Association, and meant practically severing all connection with the United States Department of Agriculture. It might be a difficult matter to induce the Department to publish the annual report of the Association in the future, in case the journal should not be a financial success.

The report was amended in order to increase the advisory board

from five to six members, and to clearly define the method of their election, and it was then adopted by the Association in the following form:

That those hereto subscribing form a company for publishing a journal devoted to economic entomology, to be the official organ of the Association of Economic Entomologists; that this company will publish six issues a year of fifty to one hundred pages each, at a subscription price of one dollar (\$1.00) to members and two dollars (\$2.00) to non-members, in consideration of which the Association of Economic Entomologists agrees to publish its proceedings in said journal; that this company shall elect the editor and business manager, and that the advisory board shall consist of six members, to be nominated by the committee on nominations of the Association of Economic Entomologists and approved by the Association, which the company agrees to elect, two for one year, two for two years and two for three years, and that there shall hereafter be elected annually, in the same manner, two members to succeed those retiring; that the above-mentioned board with the editor and business manager shall determine the policy of the journal and shall control the matter published in it; that the subscription list for stock in the company shall be open to all members of the Association of Economic Entomologists, and to them only, at ten dollars (\$10) per share, payable on demand.

The Committee on Membership presented the following report:

REPORT OF THE COMMITTEE ON MEMBERSHIP.

The Committee on Membership recommend the following:

For foreign members:

Prof. C. Gordon Hewett, Manchester, England, proposed by Dr. L. O. Howard.

Dr. Waldemar Pospielow, Station Entomologique, Rue de Boulevard No. 9, Kiew, Russia, proposed by Dr. L. O. Howard.

For transfer from associate to active membership:

Mr. R. C. L. Perkins, Honolulu, Hawaii.

For associate members:

Myron H. Swenk, University of Nebraska, Lincoln, Neb.

Harry S. Smith, University of Nebraska, Lincoln, Neb.

Paul R. Jones, Bureau of Entomology, Washington, D. C.

Henry Ness, Iowa State College, Ames, Iowa.

J. E. Buck, Agricultural Experiment Station, Blacksburg, Va.

R. A. Vickery, Agricultural Experiment Station, St. Anthony Park, Minn.

George A. Dean, Kansas Agricultural College, Manhattan, Kan.

Howard E. Weed, Chicago, Ill.

C. T. Paine, San José, Cal.

Charles Spooner, Agricultural Experiment Station, Durham, N. H.

B. H. Guilbeau, Baton Rouge, La.

George A. Runner, State Crop Pest Commission, Baton Rouge, La.

Arthur H. Rosenfeld, State Crop Pest Commission, Baton Rouge, La.

T. C. Barber, State Crop Pest Commission, Baton Rouge, La.

W. H. Goodwin, Agricultural Experiment Station, Wooster, Ohio.

Frederick B. Lowe, 6 Beacon Street, Boston, Mass.

H. O. Marsh, Bureau of Entomology, Washington, D. C.

J. A. West, Urbana, Ill.

Edith M. Patch, Agricultural Experiment Station, Orono, Me.

E. L. Worsham, Capitol Building, Atlanta, Ga.

Burton N. Gates, Bureau of Entomology, Washington, D. C.

Glen W. Herrick, Agricultural Experiment Station, Agricultural College, Miss.

John J. Davis, University of Illinois, Urbana, Ill.

To be dropped from membership (on account of having discontinued entomological work.)

J. M. Rankin, Leslie Martin, C. M. Walker, E. S. Hardy, W. O. Martin.

The committee further recommends:

That the committee on membership shall be appointed at the first session of each annual meeting, to serve until the appointment the next year of their successors, to whom the retiring committee shall transmit written recommendations concerning new members, promotions to active membership and names to be dropped from the roll.

The committee further recommends:

That the secretary be requested to have blanks printed for application for membership.

Respectfully submitted,

H. E. SUMMERS,

J. B. SMITH,

S. A. FORBES,

Committee.

By vote of the Association the report was accepted and the recommendations of the committee adopted.

The report of the Treasurer and of the Auditing Committee was as follows:

REPORT OF THE TREASURER.

Jan. 1-Dec. 27, 1907.	By amount received for dues	\$111.00
Jan. 1, 1907.	To balance due on account of 1906	\$16.40
	paper and printing	5.00
	express on manuscript	.55
	stamps	1.00
	printing	2.25
	rent of typewriter	3.00
April 20,	stamps	3.00
" 25,	stamps	1.00
May 1,	stamps	1.00
" 24,	stamps	1.00
Oct. 5,	stamps	4.00
" 16,	printing certificates and blanks	12.25
" 29,	express charges	.70
Nov. 6,	mailing tubes	1.00
" 15,	stamps	2.50
" 16,	stamps	1.25

Dec. 14,	stamps	4.00
" 21,	telegram	.98
		<hr/>
Total amount expended,		\$60.88
To balance in the treasury, Dec. 27, 1907.....		50.12
		<hr/>
		\$111.00

Respectfully submitted,

A. F. BURGESS, *Treasurer.*

The Auditing Committee reported that the accounts of the treasurer had been examined and that they were found correct, and that a record of auditing had been made in the treasurer's book.

FRANKLIN SHERMAN, JR.,

H. T. FERNALD,

Committee.

These reports were accepted by vote of the Association.

The report of the Committee on Nominations was next presented:

REPORT OF THE COMMITTEE ON NOMINATIONS.

Your committee to nominate officers for the year 1908 begs leave to report as follows:

For President, Dr. S. A. Forbes, Urbana, Ill.

For First Vice-President, Dr. W. E. Britton, New Haven, Conn.

For Second Vice-President, Dr. E. D. Ball, Logan, Utah.

For Secretary-Treasurer, A. F. Burgess, Washington, D. C.

For Member of the Committee on Nomenclature, Prof. A. L. Quaintance, Washington, D. C.

For Members of the Council A. A. A. S., Prof. H. A. Morgan, Knoxville, Tenn., and Dr. James Fletcher, Ottawa, Canada.

For Member of the Joint Committee, Wilmon Newell, Baton Rouge, La.

Respectfully submitted,

HERBERT OSBORN,

E. P. FELT,

WILMON NEWELL,

Committee.

On motion the Secretary was instructed to cast the ballot of the Association for the list of officers reported by the committee and they were declared elected.

The same committee also presented the names of the following members to serve on the advisory board of the journal:

For three years, Messrs. Howard and Forbes.

For two years, Messrs. Fletcher and Morgan.

For one year, Messrs. Fernald and Osborn.

By vote of the Association these nominations were approved.

The report of the Committee on Resolutions was presented as follows:

REPORT OF THE COMMITTEE ON RESOLUTIONS.

The committee begs leave to report as follows:

Resolved, That the Association of Economic Entomologists expresses its appreciation of the courtesies extended by the University of Chicago, the local committee on arrangements, and the entomologists of Chicago; and

Resolved, That this Association hereby expresses its gratitude to Dr. L. O. Howard, Chief of the Bureau of Entomology, and the Honorable Secretary of Agriculture, for the editing and publication of its proceedings since its organization, and whereas in the infancy of this organization a means of publication was furnished it by *Insect Life*, published by the Division of Entomology, that this Association trusts that the staff of the Bureau of Entomology will make free use of the *Journal of Economic Entomology* now to be instituted as the official organ of this Association; and

Resolved, That the Association beholds with gratification the recent activity in the study of ticks concerned in the transmission of diseases or that may be found to be so concerned and urges the members to make further and more extensive investigations in this important field; and

Resolved, That the Association recommend that apiculture receive more attention from the official state entomologists and especially that attention be paid to the distribution and treatment of the brood diseases of bees; and

Resolved, That the Association expresses its appreciation of the valuable work being done by Prof. A. L. Herrera, of the Mexican Comision de Parasitologia Agricola, under conditions of peculiar difficulty, and that the Secretary be instructed to notify Professor Herrera of this action; and

Resolved, That the Association reiterates its expression in the resolution passed at the New Orleans meeting to the effect that wherever possible the Secretary arrange programs on the symposium plan.

W. D. HUNTER,

E. DWIGHT SANDERSON,

F. L. WASHBURN,

Committee.

At the suggestion of Mr. Fletcher, the committee submitted a special resolution on the gypsy moth work as follows:

Resolved, That the Association heartily approves the work now being done in the control of the gypsy moth and brown-tail moth by the state of Massachusetts and other states and by the Bureau of Entomology; and inasmuch as we have heard of criticism of this work from certain quarters, we hereby express our unqualified approbation of the present management and of the methods which it has adopted, and furthermore we would consider a change in policy as most dangerous to the vital interests concerned in the most important work in applied entomology that has ever been undertaken.

In discussing this resolution Mr. Fletcher called attention to the excellent results that are being secured from this work, and urged the necessity of a continuance of the same management and policy that has brought about these results.

It was moved and carried that the report be adopted. The special resolution was then unanimously approved by the Association.

The Standing Committee on Insecticides submitted the following report:

REPORT OF THE STANDING COMMITTEE ON INSECTICIDES.

Your committee on insecticides begs to present the following report:

1. After consideration of the list of insecticides submitted to the members of the Association for testing as reported to the committee of last year on this subject (which list is herewith appended) it seems to your committee that it is not advisable at the present time to undertake any coöperative tests of any of them.

2. Your committee recommends that all new proprietary insecticides offered to members of this Association be referred to this committee, who will then proceed, as suggested in the report of the committee on this matter of last year, part two.

3. The committee believes that it should ascertain whether it is possible to secure an interpretation or amendment of the national pure food and drug law so that it will include insecticides and fungicides, and if this is found impossible that the committee draw up and report to the next meeting of this Association a suggested law which will aid in securing uniformity of legislation in the various states, as regards the compulsory analysis and labeling of insecticides and fungicides.

Respectfully submitted,

E. D. SANDERSON,
E. P. FELT,
H. E. SUMMERS,
R. I. SMITH.

The following is a list of insecticides submitted by the committee with the above report:

Arsenites: Swift's Arsenate of Lead, Green Death, Disparene, Green Arsenoid.

Scale insect remedies: Scalecide, Rex Lime Sulfur Wash, Target Brand Lime Sulfur Wash, Target Brand Scale Emulsion, Consol, Kil-o-Scale, Horicum.

Tobacco preparations: Rose Nicotine, Nikoteen, Rose Leaf Extract, Nicoticide, Tobacco Dust, Aphis Punk.

Larvacides: Phinotas Oil.

Tree Pastes: Tree Tanglefoot, Stone's Tree Paste, Borer Tanglefoot, Raupeuleim.

Soaps: Takanap soap.

Miscellaneous: Zenoleum, Orient Spray, Limoid, American Disinfectant, Carlson's Mixture, Kerosene Flour Emulsion, Pearson's Creolin.

Voted that the report be adopted and the committee continued.

The Secretary asked for instructions from the Association in regard to limiting the length of time to be allowed for the presentation of papers at future meetings. After some general discussion the following motion was made and carried:

"That the Secretary in calling for titles be authorized to request a fifteen-minute limit for papers, at the same time not necessarily limiting the length of important papers to that time; and that the time desired by each author be stated when submitting his title."

At the evening session the President called attention to the desire of the representatives of the American Association of Nurserymen to have a committee appointed to attend their annual convention at Milwaukee.

It was voted that a committee of three be appointed by the chair. The following members were selected,—Messrs. Forbes, Burgess and Symons.

Mr. Orlando Harrison, representing the above mentioned Association, thanked the Association of Economic Entomologists for the courtesies extended to the nurserymen during the meeting.

Immediately before adjournment Mr. W. D. Hunter presented the resolution which follows:

Resolved, That the thanks of the Association be extended to the President, Prof. H. A. Morgan, for the equanimity, for the genial good nature, and for the wisdom with which he presided over the meetings of the twentieth annual session.

This resolution was put before the meeting by Mr. Hunter and received unanimous approval.

President Morgan expressed his appreciation of the sentiments conveyed in the resolution, and with his usual unselfishness attempted to show that the Secretary was responsible for the success of the meeting.

There being no further business the meeting adjourned.

PART II

The annual address of the President was presented at the opening session of the meeting, Friday morning, as follows:

THE RELATION OF THE ECONOMIC ENTOMOLOGIST TO AGRICULTURE

By H. A. MORGAN, *Knoxville, Tenn.*

The discussions of the systematic, developmental, and purely economic aspects of the subject of Entomology that have been presented before this body from time to time have indicated in a conspicuous way the broad yet definite field of the economic entomologist. In the interest of the future work of the Association these general boundaries should be maintained, as it is difficult to predict just when or where even the most remote biologic investigation, discovery or observation

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