

"Results of Twenty-five Years' Collecting of the Tachinidæ," by J. M. Aldrich.

"Notes on Capsid Life-histories," by Mortimer D. Leonard.

"Notes on the Life-histories of Certain Membracidæ," by W. D. Funkhouser.

"A Photographic Record of the Development of the Female *Lepidosaphes ulmi* Linn.," by R. A. Cooley.

"On Proper Generic Concepts," by C. H. Tyler Townsend.

"The Homology of the Genitalia of *Benacus griseus*," by Anna Grace Newell.

"The Nemocera not a Natural Group of Diptera," by Frederick Knab.

"Studies on the Morphology of the Head and Mouth-parts of Diptera," by Alvah Peterson. Read by title.

"Interpretation of the Codling-moth Data from Colorado," by C. P. Gillette.

"Modification of the Color Patterns of *Cicindela* by Temperature and Moisture," by V. E. Shelford. Read by title.

"Suggestions for Discovering Affinity and Phylogeny," by Nathan Banks.

"Insect Notes from Colorado," by C. P. Gillette.

"The Modification of the Subcostal Vein in the Wings of Insects," by Alex. D. MacGillivray. Read by title.

"The Olfactory Sense of Coleoptera," by N. E. McIndoo.

"The Ecology of Plague," by James Zetek. Read by title.

"Importance of Observations Apparently Unimportant," by F. M. Webster. Read by title.

"Life-history Studies on the Cercopidæ and Jassidæ," by Herbert Osborn.

"An Insect Enemy of the Four-lined Leaf-bug," by C. R. Crosby. Read by title.

The greater part of the morning of the first was devoted to the business meeting at which was reported the election of Rev. Charles J. S. Bethune, Professor John Henry Comstock, Professor Charles Henry Fernald and Mr. Eugene Amandus Schwarz as honorary fellows.

The following members were elected as fellows: Nathan Banks, J. Chester Bradley, W. E. Britton, C. T. Brues, H. T. Fernald, Glenn W. Herrick, J. S. Hine, O. A. Johannsen, A. L. Melander, A. P. Morse, P. J. Parrott, Edith M. Patch, A. L. Quaintance, J. A. G. Rehn, W. A. Riley, Annie

Trumbull Slosson, E. M. Walker, H. F. Wickham and E. B. Williamson.

One of the most important features of the meeting was the establishment of the Thomas Say Foundation. A serial for the publication of works dealing with American systematic entomology of such size as to preclude of their publication in the ordinary channels. The publication was placed in the charge of a temporary committee consisting of J. M. Aldrich, Nathan Banks, Morgan Hebard, E. P. Van Duzee and Alex. D. MacGillivray.

The following officers were elected for 1915:

President—Professor Lyman V. Kellogg, Leland Stanford Junior University.

First Vice-president—Professor James S. Hine, Ohio State University.

Second Vice-president—Mr. J. M. Aldrich, U. S. Bureau of Entomology.

Secretary-treasurer—Alex. D. MacGillivray, University of Illinois.

Additional Members of the Executive Committee—Mr. C. T. Brues, Bussey Institution; Professor William A. Riley, Cornell University; Professor T. D. A. Cockerell, University of Colorado; Mr. J. A. G. Rehn, Philadelphia Academy of Natural Sciences, and Professor A. L. Melander, Washington Agricultural College.

Member of Committee on Nomenclature—Nathan Banks, U. S. Bureau of Entomology.

The society decided to hold a summer meeting in August at San Francisco in affiliation with the American Association and the annual meeting in December at Columbus,

ALEX. D. MACGILLIVRAY,

Secretary

INDIANA ACADEMY OF SCIENCE

THE Indiana Academy of Science held its thirtieth annual meeting in Indianapolis, December 4-5. The attendance was the largest and the interest the greatest in many years. Over 100 new members were added to the roll this year. The following papers were presented:

"Science in Its Relation to Conservation of Human Life," address by the retiring president, Mr. Severance Burrage.

Symposium: Some Scientific and Practical Aspects of the Problem of Feeble-mindedness.

"The Feeble-minded Family," by Amos W. Butler.

"The Problem of Feeble-mindedness," by Dr. G. S. Bliss.

"The Feeble-minded and Delinquent Boy," by Dr. F. E. Paschal.

"The Feeble-minded and Delinquent Girl," by Dr. E. E. Jones.

"Feeble-mindedness in the Public School," by Miss Katrina Myers.

"The Alcohol Problem in the Light of Coniosis," by Robert Hessler.

- "Cold Storage, Practical Conservation," by H. E. Barnard.
- "Changing Conditions among the Cumberland Plateau Mountain People" (lantern), by Bernard H. Schockel.
- "The Conservation of Energy," by Arthur L. Foley.
- "Agriculture in Southern Indiana," by C. G. Phillips.
- "The Chief Reason for the Migration of Our Birds," by D. W. Dennis.
- "An Aeration Apparatus for Culture Solutions," with charts, by Paul Weatherwax.
- "Antagonism of *B. fluorescens* and *B. typhosus* in Culture," by P. A. Tetrault.
- "Notes on the Distribution of the Forest Trees of Indiana," by Stanley Coulter.
- "A New Enemy of the Black Locust," by Glenn Culbertson.
- "The Parasitic Fungi Attacking Forest Trees in Indiana," by Geo. N. Hoffer.
- "A New Disease of *Viola cucullata*" (lantern), by H. W. Anderson.
- "Oat-smut in Indiana," by F. J. Pipal.
- "Weed Seeds in Soil," by F. J. Pipal.
- "Additions to Indiana Flora," by Chas. C. Deam.
- "Some Peculiarities in *Spirogyra dubia*," by Paul Weatherwax.
- "Stomata of *Trillium nivale*," by F. M. Andrews.
- "Final Report on Cross Pollination of Corn," by M. L. Fisher.
- "The Primrose-leaved Violet in White County" (charts and specimens), by Louis F. Heimlich.
- "Continuous Rust Propagation without Sexual Reproduction," by C. A. Ludwig.
- "Correlation of Certain Long-cycled and Short-cycled Rusts," by H. C. Travelbee.
- "Some Species of Nummularia Common in Indiana," by C. E. O'Neal.
- "The Genus *Rosellinia* in Indiana," by Glenn B. Ramsey.
- "Cultivating and Breeding Medicinal Plants" (lantern), by Fred A. Miller.
- "Some Large Botanical Problems," by J. C. Arthur.
- "The Alba Gehre Collection of Birds' Eggs in the Museum of Purdue University," by Howard E. Enders.
- "A Study of the Maturation Period in the Mole-cricket" (blackboard), by F. Payne.
- "Note on a Peculiar Nesting Site of Chimney Swift," by Glenn Culbertson.
- "Mosaics in *Drosophila ampelophila*" (chart), by Horace M. Powell.
- "New Mutations in the Genus *Drosophila* and their Behavior in Heredity" (chart), by Roscoe R. Hyde.
- "Notes on Indiana Earthworms," by H. V. Heimbürger.
- "Insects of the Between-tides Zone," by Chas. H. Arndt.
- "Regeneration in *Sagartia*," by D. W. Davis.
- "The Relation of Birds to Aquatic Life as Exemplified by Observation and Studies made at Lake Maxinkuckee," by Barton W. Evermann.
- "The Reptiles and Batrachians of the Lake Maxinkuckee Region," by Barton W. Evermann.
- "A Physical and Biological Survey of Lake Maxinkuckee," by Barton W. Evermann.
- "The Quantitative Determination of Copper," by W. M. Blanchard.
- "The Alundum Crucible as a Substitute for the Gooch Crucible," by George L. Clark.
- "Some Recent Work in Dairy Chemistry," by George Spitzer.
- "Analysis of Zirconium Minerals," by James Brown.
- "Correlation of High School and College Chemistry," James Brown.
- "Chemical Composition of Virgin and Cropped Indiana Soils," by S. D. Conner.
- "Sewage Disposal" (lantern), by Charles Brossmann.
- "Extension of Empirical Curve by the Addition of Estimated Values to a Series of Observations" (chart), by Albert Smith.
- "Tar-forming Temperatures of American Coals" (charts), by O. C. Berry.
- "Shawnee Mound, Tippecanoe County, A Glacial Alluvial Cone" (chart and photograph), by William A. McBeth.
- "Flood Prevention in Indiana," by W. H. Hatt.
- "Stratigraphic Correlation of the Outcrop at Spades, Indiana," by H. N. Coryell.
- "Pennsylvania Fossil Plants of the Bloomington Quadrangle," by J. F. Jackson.
- "Preliminary Geological History of Dearborn County," by A. J. Bigney.
- "Notes on the Cause of Asterism in 'Starolite'" (Asteriated Quartz) (charts and specimens), by J. W. Beede.
- "The Mississippian Section of Monroe County" (charts), by J. W. Beede.
- "The Flatwoods Region of Owen and Monroe Counties, Indiana," by Clyde A. Malott.
- "Mechanical Device for Testing Mersenne Numbers for Primes," by Thomas E. Mason.
- "Some Properties of Binomial Coefficients," by A. M. Kenyon.
- "The Watertown, S. D., Tornado of June 23, 1914," by J. Gladden Hutton.
- "A New Lantern and Projector" (lantern), by Arthur L. Foley.
- "Some Text-book Inconsistencies," by Arthur L. Foley.
- "The Mechanism of Light and Heat Radiations," by James E. Weyant.
- "A Simple Form for the Carey Foster Bridge" (lantern), by J. P. Naylor.
- "The Change of the Radioactivity of Certain Springs" (lantern), by R. R. Ramsey.
- "Radioactivity of Spring Water" (lantern), by R. R. Ramsey.
- "A Radioactive Electroscope" (lantern), by Edwin Morrison.
- "Some Results of the Indiana University Lake Survey," by Will Scott.
- "Report on Nett Lake," by A. B. Reagan.
- "Universal Cement Fence-Post," by F. W. Gottlieb.

A. J. BIGNEY,
Secretary