

ANNUAL MEETING OF THE TENNESSEE
ACADEMY OF SCIENCE, NOVEMBER
27-28, 1931

The Academy convened in the Industrial Arts Building, George Peabody College for Teachers, and was called to order by President L. R. Hesler at 9:00 A. M., Friday, November 27, 1931.

After the reading and adoption of the minutes of the Academy meeting at the University of Tennessee, Knoxville, May 8 and 9, 1931, and of the meetings of the Executive Committee in Nashville, June 23 and November 12, 1931, the reading and discussion of papers ensued as per printed program included in these minutes. A paper accidentally omitted from the program was read by Dr. Elbridge Sibley, of the Tennessee State Department of Health. The subject of the paper was *Evaluation of Public Health Work*. The tenth paper was read by title, the authors, M. L. Pabst and A. Richard Bliss, Jr., not being present.

Before adjourning for lunch at noon Professor Webb made some announcements in regard to local arrangements for accommodating members and President Hesler appointed the following committees:

Committee on nominations: Jesse M. Shaver, Mrs. Burt R. Francis, G. R. Mayfield.

Committee on resolutions: Walter F. Pond, Francis G. Slack, Mrs. Roberts D. Lyne.

Committee for auditing accounts: Dr. W. S. Leathers, Joseph K. Hart, Claude R. Fountain.

Vice-President H. A. Webb presided at the afternoon session. The program consisted of six papers, a symposium on Astronomy, sponsored by the Barnard Astronomical Club of Nashville, which, though its relation to the Academy has not been definitely established, has for the last three years co-operated with the Academy as a section or in affiliate relation.

Miss Mary R. Calvert, of Williams Bay, Wisconsin, gave a preview of Dr. E. E. Barnard's *Micrometric Measurements of Stars in the Cluster*, a work which she is now preparing for publication.

Mr. W. D. Powell, President of the Barnard Club of Chattanooga, and Mrs. L. S. Mayers, President of the Barnard Club of Knoxville, were present and at the request of the Chairman gave an account of the organization and work of these clubs. Mrs. Mayers also read an interesting paper on *The Physical Characteristics of Our Sun*.

Friday evening through the courtesy of the Barnard Astronomical Club of Nashville, the famous U. F. A. films were shown in the auditorium of the Social-Religious Building. Previous to the showing of the films, President Hesler introduced Mrs. Roberta Dillon

Lyne, President of the Club, who gave a history of the club closing by expressing the gratification of the club in its connection with the Academy, appreciation of the part it was invited to take in the exercises of this meeting and its indebtedness to college and university members of the Academy for lectures at club meetings whenever the weather was unfavorable for telescopic observation.

SATURDAY MORNING SESSION

President Hesler called the meeting to order at 9:10. Papers were read as scheduled, by James B. Lackey, Walter F. Pond, P. E. Cox, and Miss Eleanor Eggleston. Alonzo G. Webb discussed in a very entertaining manner *Archery: Past and Present*, using his fine collection of bows, quivers and arrows to illustrate, and also took a few shots at a target.

Professor Joseph K. Hart, having been called to a meeting in Memphis, failed to get back to Nashville in time to read his paper.

J. T. McGill showed on a topographical map made by the U. S. Geological Survey and also on a large map of the lands acquired by the State for Reelfoot Lake Park, the location of the ten acres near Walnut Log Lodge recently surveyed for a biological station to be under the direction and control of the Tennessee Academy of Science, and then read the lease made out by the Attorney General of the State to the Executive Committee of the Tennessee Academy of Science as trustees and offered to the Academy for acceptance. After many questions by members and prolonged discussion of the project by Lackey, Shaver, Reinke, Webb and others, it was voted on motion duly seconded that the Academy accept the proposition, the Executive Committee be made Trustees and given full authority to proceed.

A motion was made by Jesse M. Shaver that a committee be appointed to revise the constitution and by-laws so as to make them cover the present activities of the Academy. The motion was seconded and passed. Dr. Hesler appointed the Executive Committee for this purpose.

The question of incorporating the Tennessee Academy of Science was discussed by Jesse M. Shaver. On motion of Dr. Mayfield, this matter was referred to the Executive Committee.

A resolution offered by P. E. Cox, relating to the re-enactment by Congress of the law providing for co-operative work as provided in the U. S. Statutes 45, Part I, page 413, was referred to the Executive Committee.

The Secretary-Treasurer made a report showing changes in membership for the year to be: life members from one to six; active members from 420 to 400; sustaining members from 19 to 6; and that the disbursements during the year exceeded the receipts by two hundred (\$200.00) dollars.

Editor Shaver made a report in which he called attention to the change in the size of the Journal from 48 to 64 pages, and the use of a larger number of cuts. The U. S. postal authorities, he said, had

with certain restrictions allowed the insertion of several pages of advertisements and the revenue from these had in part taken care of the increased expense. By arranging for exchanges with libraries and scientific societies, a number of valuable publications had been secured for the library as had been shown in the article of Miss Eleanor Eggleston, the Academy Librarian.

The Secretary read telegrams from Watkins Overton, Mayor; W. R. Herstein, President of the Chamber of Commerce; and Dr. A. Richard Bliss, Jr., Chairman of Committee; extending a cordial invitation from the City Administration, the Chamber of Commerce and members of the Academy in the University of Tennessee, the Southwestern University, and the West Tennessee Teachers College, to the Tennessee Academy of Science to hold the Spring meeting of 1932 in Memphis. The invitation was accepted.

Walter F. Pond and F. G. Slack submitted resolutions of thanks to George Peabody College for Teachers, Vice-President Webb and the Nashville newspapers for their contributions to the success of the meeting, to the Tennessee Legislature for the passage of acts relating to the establishment of a biological station to be under the direction and control of the Tennessee Academy of Science and to J. T. McGill for his work pertaining to the same, and to Jesse M. Shaver for his efficient editing of the journal. The resolutions were adopted as read.

The Committee on Nominations reported:

For President—Dr. A. R. Bliss, Jr., U. T. Medical School, Memphis.

For Vice-President—Dr. Louis Bircher, Vanderbilt University, Nashville.

For Secretary-Treasurer—Dr. J. T. McGill, Vanderbilt University, Nashville.

For Editor of Journal—Jesse M. Shaver, George Peabody College for Teachers, Nashville.

The nominees were unanimously elected.

President Bliss (later) appointed on the Executive Committee, Professor Joseph Peterson, Nashville, Professor L. M. Hesler, Knoxville, Dr. John L. Jelks, Memphis.

Although Friday and Saturday were rainy and dark, the sessions were well attended. Fifty of the one hundred eight people who registered, were members of the Academy. The audience Friday evening almost filled the auditorium of the Social-Religious Building.

PROGRAM

FRIDAY MORNING SESSION

1. The Ecological Relation of Roadside Plants. Mrs. Burt R. Francis, Biology and General Science, Isaac Litton School.
2. Quantitative Laboratory Experiments in the Fourth, Fifth, and Sixth Grades (Preliminary Report). Claude R. Fountain, Department of Physics, George Peabody College for Teachers.

3. The Soy Bean as Human Food. Frances L. Dittes, Department of Nutrition, Nashville Agricultural Normal Institute.
4. Dr. Safford and His Work. L. C. Glenn, Department of Geology, Vanderbilt University.
5. The Training and Research Activities of Teachers of Psychology in America. Read by Title. Joseph Peterson, Department of Psychology, George Peabody College for Teachers.
6. A State-Wide Survey of the Intestinal Protozoa of Man in Tennessee. H. E. McIney, E. L. Bishop, and W. S. Leathers, School of Medicine, Vanderbilt University.
7. A Preliminary Study of the Mockingbird's Imitation of Other Birds. George R. Mayfield, Department of German, Vanderbilt University; Tennessee Ornithological Society.
8. The Effect of Certain Diets on the Teeth of the Albino Rat, with Special Reference to the Development of Dental Caries. Perry A. Webber, Department of Biological Chemistry, Nashville Agricultural Normal Institute.
9. The Brown Iron Ores of the Western Highland Rim of Tennessee. Kendall E. Born, Department of Geology, Vanderbilt University.
10. The Chemical and Biological Standardization of *Aspidium*. Read by Title. M. L. Pabst and A. Richard Bliss, Jr., Laboratories of Pharmacology, School of Medicine, University of Tennessee.

FRIDAY AFTERNOON SESSION

- A Symposium on Astronomy, sponsored by the Barnard Astronomical Club of Nashville.
11. A Photographic Map of the Milky Way. Latimer J. Wilson, Field Observer, The Barnard Astronomical Club.
 12. Certain Notable Achievements in Astronomy. James McClure, Department of Astronomy, Vanderbilt University.
 13. A Preview of Dr. E. E. Barnard's "Micrometric Measures of Stars in the Cluster." Mary R. Calvert, Yerkes Observatory.
 14. The Physical Characteristics of Our Sun. Lillian C. B. McA. Mayer, President, National League of Pen Women; The Barnard Astronomical Club of Knoxville.
 15. Trends in Modern Cosmogony. C. E. Van Horn, Department of Mathematics, Fisk University.
 16. A Review of Dr. Harlow Shapley's Ten Problems of the Universe. H. A. Webb, Department of Chemistry and General Science, George Peabody College for Teachers.

ACADEMY DINNER

6:00 P. M., Peabody Cafeteria.

FRIDAY EVENING

Through the courtesy of the Barnard Astronomical Club of Nashville, the famous UFA films were shown.

THE HEAVENLY BODIES

Reel 1- The Development of Astronomical Knowledge; Reel 2- Gravitation - The Moon - Constellations; Reel 3- The Sun - Its Influence on the Earth; Reel 4 - Mercury - Venus - Mars; Reel 5 - Jupiter - Saturn - The Milky Way; Reel 6 - The Evolution of the Universe.

SATURDAY MORNING SESSION

17. The Supposed Centrioles of *Hamina solitaria* as Seen in the Cleaving Egg. James B. Lackey, Department of Biology, Southwestern University.
18. Progress of Tennessee Geological Survey, 1927-1931, Inclusive. Walter F. Pond, Director, Tennessee Geological Survey.
19. Archery: Its Past and Present (with exhibits). Alonzo C. Webb, President, The Southern Archery Association.
20. The Antiquity of Man in America. P. E. Cox, State Archeologist of Tennessee.
21. The Library of the Tennessee Academy of Science. Eleanor Eggleston, Vanderbilt General Library; Librarian of the Academy.
22. Further Developments Concerning Affiliated Science Clubs. Read by Title. Joseph K. Hart, Department of Education, Vanderbilt University.
23. A Preliminary Survey of the Location of the Biological Station at Reelfoot Lake. John T. McGill, Vanderbilt University; Secretary of the Academy.

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Southern Society for Philosophy and Psychology; as did also Herbert C. Sanborn. Sanborn's paper was *Methodology and Aesthetics*. Walter C. Reckless presented a paper before Section K (Social and Economic Sciences) on *The Use of Observation and Statistics in the Placement of Foster Children*.

George Peabody College for Teachers was represented by two faculty members at the New Orleans Meeting. Jesse M. Shaver, from the Department of Biology, was Secretary of the Wilson Ornithological Club. He was retired from this office and elected President for 1932. Joseph Peterson, of the Department of Psychology, was Chairman of the Thursday Morning Session of the Southern Society for Philosophy and Psychology, and read a paper before this organization, Tuesday afternoon, on *The Development of Psychology Instruction in the South*.

James B. Lackey, of Southwestern College, had a paper before the American Society of Zoologists, on *The Achromatic Figure in the Cleaving Egg of *Hamina solitaria* (Say) with Especial Reference to the Centriole*. H. G. Butler of Harriman, read a paper before The American Association of Economic Entomologists, on *Observations on the Biology and Control of the Peach Borer, with Special Application to Young Trees*. A. F. Ganier of Nashville, presented a paper before the Wilson Ornithological Club on *Nesting of the Golden Eagle in Tennessee*. D. R. Brewster of the National Lumber Manufacturers Association, Memphis, discussed *Forestry and the Hardwood Using Industries*, and C. Arthur Bruce, of the E. L. Bruce Lumber Co., Memphis, discussed *The Hardwood Producer's Attitude Towards Forestry*, before the Society of American Foresters.

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