

PROCEEDINGS OF THE ANNUAL MEETING
OF THE TENNESSEE ACADEMY OF
SCIENCE, DECEMBER 1-2, 1933

J. T. MCGILL, *Secretary*

The thirty-third meeting of the Tennessee Academy of Science was held at George Peabody College for Teachers, Friday and Saturday, December 1-2, 1933. The papers listed on the program were all presented by the authors except Nos. 4 and 14 which were read by title in the absence of the authors. Lantern slides were used by several speakers—more than one hundred being used by Dr. F. A. Weber in illustrating the cultivation and uses of the soy bean in China and Japan and the manufacture from it of many varieties of foods in the Ford Laboratory at River Rouge, Michigan, and at the Nashville Agricultural Normal Institute, Madison, Tennessee. Dr. George Seeman made use of many interesting moving pictures in illustrating the *Physiology of Mastication*.

The symposium on *The Tennessee Valley Development Project* at the session Friday afternoon proved to be the feature of most general interest on the program, drawing an audience of about one hundred. The attendance at the other sessions was from twenty-five to fifty. Forty were present at the dinner and social meeting in the West Dormitory, Friday evening at 6:30 P. M., and about one hundred fifty at the Academy address in the auditorium of the Social-Religious Building on *The Educational Implications of the Tennessee Valley Authority*.

BUSINESS MEETING

Dr. Jesse M. Shaver presided at the business meeting held on Saturday morning. The Secretary-Treasurer read the minutes of the meeting of the Academy at Walnut Log, Reelfoot Lake, on April 28-30, 1933, and of the two meetings of the Executive Committee, both at Nashville, one on May 8, and one on November 24.

The Secretary-Treasurer made a preliminary report concerning the status of the membership and the treasury of the Academy. The statement indicated that the checking balance of \$286 which the Academy had on January 1, 1933, would probably be reduced to less than \$100 by January 1, 1934. Dr. Shaver made a report of finances with respect to the *Journal* and suggested a way by which members might bring about an increase in receipts from advertising.

Following a discussion of what the policy for next year should be, Dr. Fountain moved that it was the feeling of the meeting that the Executive Committee should draw, in case of need, on the Academy saving account of \$500 rather than reduce the size or quality of the *Journal*.

The Constitution and By-Laws which were proposed at the November meeting of 1932 (copies of which were sent to all members) were

adopted. Three resolutions offered by the Committee on Resolutions were adopted: (1) Approving the *Tugwell Bill* for adequate control of the advertising claims and the contents of foods and drugs; (2) Approving the general plans for scientific development of the work of the Tennessee Valley Authority, *its freedom from political guidance* and its efforts toward improving the social order and the industrial, natural, and educational resources of the South; (3) Expressing appreciation to George Peabody College for Teachers for kind permission to use its buildings and equipment for the meeting, to the Nashville Banner and the Nashville Tennessean for generous publicity, to Dr. Walter D. Cocking, Commissioner of Education of the State of Tennessee, for his address on the *Educational Implications of the Tennessee Valley Authority*, and to the Program Committee for its zealous and efficient work in preparing such an interesting meeting.

Officers for 1933-1934 were elected as follows:

Dr. Walter F. Pond, Nashville, *President*.

Dr. George M. Hall, Knoxville, *Vice President*.

Dr. John T. McGill, Nashville, *Secretary-Treasurer*.

PROGRAM

FRIDAY MORNING SESSION

INDUSTRIAL ARTS BUILDING

DR. FRANCIS G. SLACK, *President, presiding*

1. Iodin in Relation to Simple Goiter. Miss Jeanette Moore King, Superintendent of Public Schools, Rutherford County.
2. The Physiology of Mastication. Dr. George Seeman, Nashville.
3. Observations of the Action of the Drug Avertin on the Median Nerve Cord of the Heart *Limulus*. Dr. C. S. Shoup, Vanderbilt University.
4. Calcium Absorption in White Mice. Dr. A. Richard Bliss, Jr., Reelfoot Lake Biological Station, and Robert W. Morrison, University of South Carolina.
5. Was Astronomy Used in Mound Building. Mr. Latimer J. Wilson, Franklin, Ky.
6. Chemical Study of the Nature of Carbon in Steels. Mr. Ward R. Myers, Vanderbilt University.
7. Studies of the Optical Resolution of Racemic Substances. Mr. Julian R. Little and Mr. J. Howard Brown, Vanderbilt University.
8. The Iron Content of Several Kinds of Wood. Mr. Conrad W. Bates, Liberty, Tenn.

FRIDAY AFTERNOON SESSION

Symposium on "The Tennessee Valley Development Project."

9. The Geological Phases of the Project. Dr. Walter F. Pond, State Geologist, Nashville.
10. Transportation and Other Geographical Problems. Dr. A. E. Parkins, George Peabody College for Teachers.

11. General Engineering Features. Prof. Fred J. Lewis, Dean of Engineering, Vanderbilt University.
12. Agricultural and Sociological Aspects. Dr. Kary C. Davis, George Peabody College for Teachers.

ACADEMY DINNER

6:30 P. M., PEABODY CAFETERIA

FRIDAY EVENING SESSION

ACADEMY ADDRESS

SOCIAL-RELIGIOUS BUILDING, GEORGE PEABODY COLLEGE
DR. CHARLES W. DAVIS, *Vice President*, Presiding

Invocation—Dr. J. L. Kesler, Vanderbilt University.

Address of Welcome—President Bruce R. Payne of George Peabody College for Teachers.

Academy Address—"The Educational Implications of the Tennessee Valley Authority"—Dr. Walter D. Cocking, State Superintendent of Schools.

SATURDAY MORNING SESSION

INDUSTRIAL ARTS BUILDING

DR. CHARLES W. DAVIS, *Vice President*, Presiding

13. Tear Gas and Smoke. Dr. Kirby E. Jackson, Captain, R. O. T. C., Nashville.
14. Vitamin Eggs Iodized and Mineralized. Mr. R. Cohn, Forest Hill.
15. Plant Growth (a moving picture). Dr. G. R. Gage, Vanderbilt University.
16. Sensitive Flames and Jets. Dr. A. W. Dicus, Tennessee Polytechnic Institute, Cookeville.
17. Notes on the Helminthic Parasites of Tennessee. Dr. P. D. Harwood, Vanderbilt University.
18. The Soy Bean As Human Food. Dr. P. A. Weber, Nashville Agricultural Normal Institute, Madison.
19. Notes on the Longevity of Native Wild Birds. Mr. Albert F. Ganier, Nashville.

President Walter F. Pond, soon after the above meeting adjourned, appointed the following members of the Executive Committee: Albert F. Ganier, Nashville, for the three-year term; Professor George D. Howell, Maryville College, for the two-year term; and Dr. J. P. McCallie of McCallie School, Chattanooga, for the one-year term. These with the three elected officers and the Editor constitute the Executive Committee of the Tennessee Academy of Science.

This Executive Committee met at the home of Dr. J. T. McGill, December 18, and elected Dr. Jesse M. Shaver, Editor for the three-year period, and Miss Eleanor Eggleston, Librarian. They also elected the following trustees of the Reelfoot Lake Biological Station: Professor Richard G. Turner, University of Tennessee Junior College at Martin, for the three-year term; Professor Charles W. Davis, Union University, Jackson, for the two-year term; and Dr. George R. Mayfield, Vanderbilt University, for the one-year term. These three men with the officers of the Tennessee Academy of Science constitute the Board of Trustees of the Academy.