

## Record

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*(From the organization of the Academy to the end of year 1913.)*

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### MEETING OF APRIL 6, 1912.

This was the first general meeting of the Academy. The meeting was held in the hall of the Carnegie Library of Nashville, at 10 a. m. The first business was the election of permanent officers, which resulted as stated on page 7.

Prof. A. A. Schaeffer spoke in regard to a journal of science which he proposed to establish, explaining the style and purposes of the proposed publication.

It was decided to hold the next meeting at Knoxville, on the Friday after Thanksgiving Day, which would be November 29.

After the reading and discussion of several papers, adjournment was taken at noon for luncheon, most of the members going in a body to the Maxwell House.

At 2 p. m. the meeting reassembled and the program was continued, ten minutes for discussion being allowed after each paper was read.

The program of papers was as follows:

On the Reported Discovery of Radium in Arkansas,  
A. H. PURDUE, former State Geologist of Arkansas.

Neon and Wireless Waves,  
WM. L. DUDLEY, Vanderbilt University.

Rock Striations and Their Causes,  
CHAS. H. GORDON, University of Tennessee.

Railroads and Railroad Building in Tennessee Before the Civil War,  
G. W. DYER, Vanderbilt University.

The Beginnings of Music,  
R. M. OGDEN, University of Tennessee.

- Food and Drug Inspection in Tennessee,  
LUCIUS P. BROWN, State Bureau of Food and Drug Inspection.
- Review of History of Geological Work in Tennessee,  
L. C. GLENN, Vanderbilt University.
- Some Remarkable Phenomena of the Tornado in Montgomery County,  
Tennessee, April 29, 1909,  
JAS. A. LYON, Southwestern Presbyterian University.
- Some Effects of Parasitic Fungi on Leaf Tissue,  
ERNEST S. REYNOLDS, University of Tennessee.
- (a) Photomicography in Colors by Lumiere Process (illustrated),  
(b) Apparatus for Washing Fixed Microscopic Material (illustrated),  
S. M. BAIN, University of Tennessee.
- The Selection of Food Among Lower Animals (illustrated),  
ASA A. SCHAEFFER, University of Tennessee.
- Voltaic Action in Combination Teeth Fillings,  
JOHN DANIEL, Vanderbilt University.
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## EVENTS DURING THE YEAR 1912.

The Secretary sent an account of the meeting of April 6 to *Science* and it was published in the issue of May 17, 1912, pages 794 and 795.

In September, Prof. E. S. Reynolds resigned as Editor, on account of his leaving the State. Prof. A. A. Schaeffer was appointed by the Executive Committee to fill the vacancy.

Printed announcements of the November meeting were sent to all the members, accompanied by a printed form for abstracts of any papers that might be desired to be read at the meeting. The announcement stated that the meeting would be held at the University of Tennessee, Knoxville, on Friday, November 29, 1912, beginning at 10 a. m. Members desiring to present papers were urged to forward titles and abstracts to the Secretary, in order that the program might be arranged.

Four hundred copies of the program for the November meeting were printed. These were sent to the members and to the principal newspapers in the State.

The Secretary recorded that "the members of the Academy numbered 74 on November 25, 1912, 70 of whom are active members and 4 associate members."

MEETING OF NOVEMBER 29-30, 1912.

The meeting was held at Carnegie Hall, University of Tennessee, Knoxville, beginning at 10 a. m., November 29.

In addition to the program of papers and discussions, the following matters were considered:

A resolution was adopted, recommending to the Governor and the Legislature of Tennessee the immediate passage of a law authorizing the Governor to appoint a Conservation Commission which shall have power (1) to grant, under such restrictions as are hereinafter suggested, renewable franchises for a limited term to all corporations desiring to make use of said water power; (2) to secure a permanent water supply, to provide for all coöperation of the State in forestry conservation, and the eventual creation of a State Forest Reserve; (3) to prevent the diversion of electric power derived from the natural waters of Tennessee, to the enrichment of other States, and to encourage its utilization within our own borders, and to that end, (4) to coöperate with the boards of trade and other civic bodies to secure the location of industrial plants in all localities where power is cheap and abundant; (5) to secure a more permanent and lasting supply of cheap power throughout this State, in all parts thereof, whether blessed with water power or not, by the prevention of waste in mining and use of coal.

It was further recommended that this Commission be instructed to investigate the feasibility of a State-wide system of power conservation development and transmission, whereby every section of the State might enjoy an equitable share of the benefits thereof, and that it report such investigation and the finding of the Commission to the next session of the Legislature.

Another resolution was passed urging the Legislature to take immediate action to provide an exhibit that shall properly and adequately set forth the resources of the State, especially in her water power, her agricultural resources, her forests, her mineral wealth and her manufacturing advantages; and it was suggested

that such an exhibit could be used successively at the National Conservation Exposition at Knoxville in 1913, the National Exposition at San Diego in 1914, and the Panama-Pacific Exposition at San Francisco in 1915.

At a meeting of the Executive Committee on November 29, action was taken fixing the dues for the period April 6, 1912, to December 31, 1912, at \$2.25 instead of the regular annual dues of \$3.00. The committee at this time also defined the relations of the Academy to the "Science Record."

The election of officers was held on November 30, 1912, with the following result: President, Watson Selvage, University of the South; Vice-President, G. W. Dyer, Vanderbilt University; Secretary, Wilbur A. Nelson, Tennessee Geological Survey, Nashville; Treasurer, Samuel M. Barton, University of the South; Editor, R. M. Ogden, University of Tennessee.

The program of papers presented at this meeting was as follows:

The Taste Sense in Frogs,

ALICE N. PORTER, University of Tennessee.

Hydrogen Peroxide as a Bleaching Agent for Entire Insects,

E. C. COTTEN, University of Tennessee.

Relation of the State to Its Water Power Resources,

J. A. SWITZER, University of Tennessee.

The Recent Disturbance in the Northern Equatorial Belt of Jupiter  
(read by Professor Porter),

LATIMER J. WILSON, Nashville.

The Effects of a Soy Bean Crop on a Following Cereal,

MAURICE MULVANIA, University of Tennessee.

The Fourth Dimension,

SAMUEL M. BARTON, University of the South.

The Occurrence of Aerial Roots on the Virginia Creeper,

SAMUEL M. BAIN, University of Tennessee.

Micro-Color Photography,

SAMUEL M. BAIN, University of Tennessee.

Science and Progress in the South (address by the retiring President),

C. H. GORDON, University of Tennessee.

- The Mastadon and the Glacial Age (illustrated),  
W. E. MYER, Carthage.
- Diffraction Phenomena Due to the Dimensions of the Source of Light.  
BROWN AYRES, University of Tennessee.
- Contributions on the Feeding Habits of Ameba,  
ASA A. SCHAEFFER, University of Tennessee.
- The Green Slates of Georgia,  
T. POOLE MAYNARD, Chattanooga.
- The Importance of the Study of Meteorology in Its Relations to Agriculture,  
J. F. VOORHEES, U. S. Weather Bureau, Knoxville.
- The Breaking of the Nashville Reservoir, November 5, 1912 (illustrated),  
WILBUR A. NELSON, State Geological Survey, Nashville.
- Types of Iron Ore Deposit in East Tennessee,  
C. H. GORDON, University of Tennessee.

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EVENTS DURING THE YEAR 1913.

The Secretary, Mr. Wilbur A. Nelson, on account of his leaving the State, offered his resignation in June, but no action was taken, and he remained in office until his departure in September.

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MEETING OF NOVEMBER 28, 1913.

The meeting was held in Furman Hall, Vanderbilt University, opening at 11 a. m., with an address by the President.

In the absence of the Secretary, the President appointed Mr. Victor P. Lee, Temporary Secretary.

During the morning session the following papers were presented. Discussion followed each paper.

A Natural Bridge of Tennessee in Process of Formation,  
H. D. MISER, U. S. Geological Survey.

Development of Phosphate Industry in Tennessee,  
LUCIUS P. BROWN, State Bureau of Food and Drug Inspection.

An Unnoticed Physiographic Feature of Tennessee,  
L. C. GLENN, Vanderbilt University.

Adjournment for luncheon occurred at 12:30 p. m. The meeting assembled for the afternoon session at 2:30 p. m., and the following papers were presented and discussed:

Caverns and Rock Shelters of the Cumberland Valley (illustrated),  
W. E. MYER, Carthage.

Food Preservatives,  
L. C. BLISS, State Bureau of Food and Drug Inspection.

A New Geological Map of Tennessee,  
A. H. PURDUE, State Geological Survey.

Some Neglected Principles of Physiography,  
A. H. PURDUE, State Geological Survey.

Some Early Geologic Maps of Tennessee,  
L. C. GLENN, Vanderbilt University.

Other matters coming before this meeting were, in brief, as follows:

The Committee on Resolutions made a partial report, but was, on motion, ordered continued, with the understanding that a full report would be rendered at the next annual meeting. There was considerable discussion relative to the nature of resolutions that should be presented. The discussion was engaged in by Messrs. Myer, Purdue, Barton, and Brown.

Officers were elected for the ensuing year as follows:

President, L. C. Glenn; Vice-President, W. E. Myer; Secretary, Roscoe Nunn; Treasurer, A. Belcher; Editor, Jas. A. Lyon.

The Treasurer read his report, which was received.

The connection of the Academy with "Science Record" was discussed and it was finally decided that all connection with "Science Record" should terminate with the present year. The matter of future publication of the Transactions of the Academy received considerable attention. On motion, the Executive Committee was given full power to take such steps as they may think

wise to provide for the publication of the papers and other literature of interest to the members.

The method of electing members (Article II, Section 5, of the Constitution) was changed. By the amendment, the Executive Committee is given power to elect new members.

The newly elected President appointed the following members of the Executive Committee, in accordance with Constitution: Prof. S. M. Bain and Mr. E. J. McCroskey.

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## Treasurer's Reports

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SEWANEE, TENN., November 27, 1912.

*To the President of the Tennessee Academy of Science:*

DEAR SIR—As Treasurer of the Academy since April 6, 1912, I beg leave to make the following report of receipts and expenditures up to November 27, 1912:

### RECEIPTS.

Dues of active members for 1912.....	\$144 00
Dues of active members for 1913.....	3 00
Dues of associate members for 1912.....	8 00
	\$155 00
Total receipts to date.....	\$155 00

### EXPENDITURES.

To W. A. Nelson, expenses of first meeting in March.....	\$ 14 74
To State Geological Survey, for notices.....	1 75
To W. A. Nelson, for hall expenses, meeting April 6.....	2 00
April 15, Foster & Parkes Co., letterheads and envelopes..	9 75
June 17, University Supply Store, for ledger.....	1 75
June 17, Postage for Treasurer.....	3 00
June 26, W. A. Nelson, for printing cards.....	1 25