THE OHIO ACADEMY OF SCIENCE.

The twenty-fourth annual meeting of the Ohio Academy of Science was held at Ohio State University, Columbus, on November 26, 27 and 28, 1914, under the presidency of Dr. T. C. Mendenhall, of Ravenna.

The address of the President was delivered Friday evening, on the subject "Some Pioneers of Science in Ohio," and on Saturday morning the Academy listened to a very timely lecture upon "Foot and Mouth Disease" by Dean D. S. White of the College of Veterinary Medicine of Ohio State University.

The trustees of the research fund announced a further gift of $250.00 from Mr. Emerson McMillin, of New York, for the encouragement of the research work of the Academy.

In accordance with the report of a committee appointed a year ago, the Academy voted to deposit the library of the Academy with the library of Ohio State University—an arrangement which may be terminated by either party on suitable notice.

The matter of the celebration of the annual meeting of 1915 as a Quarter Centennial Anniversary was referred to the Executive Committee.

Twenty-three new members were elected, making the total membership of the Academy two hundred and fifty four.

The officers of the Academy for the year 1914-15 are as follows:

President—Professor J. Warren Smith, Ohio State University and Ohio Section U. S. Weather Bureau.

Vice-Presidents—(Zoology) Professor F. C. Waite, Western Reserve University; (Botany) Professor F. O. Grover, Oberlin College; (Geology) Professor C. G. Shatzer, Wittenberg College; (Physics) Professor J. A. Culler, Miami University.

Secretary—Professor Edward L. Rice, Ohio Wesleyan University.

Treasurer—Professor J. S. Hine, Ohio State University.

Librarian—Professor W. C. Mills, Ohio State University.

Executive Committee, together with the President, Secretary, and Treasurer, members ex-officio,—Professor C. D. Coons, Denison University; Professor T. M. Hills, Ohio State University.

Board of Trustees of the Research Fund—Professor W. R. Lazenby, Ohio State University; Professor M. M. Metcalf, Oberlin College; Professor N. M. Penneman, University of Cincinnati.

Publication Committee—Professor J. H. Schaffner, Ohio State University; Professor C. H. Lake, Hamilton; Professor L. B. Walton, Kenyon College.
The complete scientific program follows:

**PRESIDENTIAL ADDRESS.**

Some Pioneers of Science in Ohio ............. Dr. T. C. Mendenhall

**LECTURE.**

The Foot and Mouth Disease ............. Dean D. S. White
College of Veterinary Medicine, Ohio State University.

**PAPERS.**

Efficacy of Lightning Rods ................. J. Warren Smith
Thunderbolt from Whitecliff Bay .......... Katherine Doris Sharp
A Preliminary Survey of Plant Distribution in Ohio ....... John H. Schaffner
Akron Fishbait Industry ..................... Chas. P. Fox
The Physiographic Provinces which meet in Ohio ........ N. M. Fenneman
Color and Coat Inheritance in Guinea Pigs ........ W. M. Barrows
Note on a New Nematode Parasite of Cryptobranchus ........ F. H. Krecker
Prediction of Minimum Temperatures for Frost Protection ........ J. Warren Smith
Is a Dry Summer and Autumn Apt to be Followed by a Wet Winter With Possible Floods? ........ J. Warren Smith
Comparative Rate of Growth of Certain Timber Trees ........ William R. Lazenby
Inheritance of Taillessness in the Cat .......... W. M. Barrows and C. A. Reese
The Cause of Milk Sickness and Trembles ........ E. L. Moseley
Notes on Euglenoidina ..................... L. B. Walton
Recent Eruptions of Mount Lassen ............. Thos. M. Hills
Glaciation in the High Sierras ............. Thos. M. Hills
Inheritance of Weights in Tomatoes ........... Fred Perry
The Municipal Care of Shade Trees ............ J. S. Houser
Influence of Glaciation on Agriculture in Ohio .......... Edgar W. Owen
The Reflection of X-rays and Gamma Rays from Crystals (Introducing discussion.) .... S. M. J. Allen
A Class Demonstration of the Peltier Effect .......... J. A. Culler
Behavior of the Arc in a Longitudinal Magnetic Field .... R. F. Earhart
Effect of Heat Treatment on the Physical Structure, Permeability, and Hysteresis of Steel .......... R. J. Webber
The Electron Theory of Metallic Conduction (Introducing discussion) .......... A. W. Smith
Exhibit of Apparatus for Electric Waves: (1) Drude Apparatus for Refractive Index of Electric Waves (2) A Wavemeter for Wireless Frequencies .......... A. D. Cole
Some Additions to the Known Orthopterous Fauna of Ohio
W. J. Kostir
Ohio Spiders ........................................... W. M. Barrows
The Egg Capsules of a Bdellodrilled on the Crayfish
Stephen R. Williams
Observations on the Life Histories of Jassidae and Cercopidae
Herbert Osborn
Habits and Food of the American Toad ............ Rees Phillpott
Note on the Occurrence of Demodex folliculorum var. bovis in
Ohio .................................................. D. C. Mote
Arrangement of the Muscles in the Mouth Parts of Embryo
Cockroaches and its Bearing on the Phylogeny of the Hexa-
poda ................................................... L. B. Walton
Winter Record of King Rail in Ohio ............ Edward L. Rice
On the Synthesis of Proteins ...................... A. M. Bleile
Additions to the List of Heteroptera of Ohio .... Carl J. Drake
The Cranial Nerves of an Embryo Shark ....... F. L. Landacre
Myxomycetes of Northern Ohio .................. E. L. Fullmer
The Forest Types of the Columbus Quadrangle
Forest B. H. Brown
New and Rare Plants Added to the Ohio List in 1914.
John H. Schaffner
A Provisional Arrangement of the Ascomycetes of Ohio
Bruce Fink
The Collemaceae of Ohio .............................. Bruce Fink
Notes in Ohio Higher Fungi ....................... Wilmer G. Stover
The Leaf Mold Disease of Tomato (Cladosporium fulvum).
Wilmer G. Stover
Summit County Marl ................................. Chas. P. Fox
History of the Olentangy River Below Delaware, Ohio
L. G. Westgate
The Physiography of Mexico ....................... Warren N. Thayer
Notes on Some Richmond Fossils ................. W. H. Shideler
The Classification of the Niagaran Formations of Western Ohio
Charles S. Prosser
The Defiance Moraine in Relation to Pre-Glacial Lakes
Frank Carney
Some of Dr. H. Herzer’s Last Fossil Descriptions . N. Speckman
On the Origin of Oolite ......................... Walter N. Bucher
Magnetic Rays. (Introducing discussion.) ...... L. T. More
On the Free Vibration of a Lecher System
F. C. Blake and Charles Sheard
Measurements of the Magnetic Field .......... Samuel R. Williams
On the Radioactive Deposit from the Atmosphere on an Uncharged
Wire .................................................. S. M. J. Allen
Demonstration of Simple Harmonic Motion on Rotation Apparatus
Charles Sheard
DEMONSTRATIONS.
A Nematode Parasite of Cryptobranchus......F. H. Krecker
Cross Sections Illustrating Rate of Tree Growth
William R. Lazenby
Varieties of Domestic Guinea Pigs. (Room 55.)...W. M. Barrows
Tailless Cat..........................W. M. Barrows
Orthoptera Not Hitherto Recorded from Ohio......W. J. Kostir
A Scale of Ohio Forest Types to Indicate the Fertility of Soil for
Agricultural Crops...............Forest B. H. Brown
Photographs of Leaf Hoppers and Frog Hoppers...Herbert Osborn

EDWARD L. RICE, Secretary.

Delaware, Ohio, December 5, 1914.