

## 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. Hinc, 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. Fenneman, 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. Kreckler

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. (In-

roducing 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

The Effect of Changes in Water Resistance and Dielectrics on the  
Vibrations of a Lecher System.....Geo. W. Gorrell

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 Bdello-drilled 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

