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Academy Editors

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Mr. Lyndal York reported the desire of the Collegiate Section to become a separate Academy of Science. He reported 45 members for the current year. The Collegiate Academy was authorized by the membership, with sponsorship of the Senior Academy.

Mr. Bogan proposed that the Academy authorize $100 for the National Science Fair fund, if such funds are needed for the current year. This action was taken.

The Committee concerned with the Academy position with respect to agriculture and home economics teachers of science reported a statement in which it was urged that such teachers should receive additional training in science. Summer Science Institute training was recommended. The report was adopted.

Dr. D. M. Moore called attention of the members to the meeting held 25 years previously in Little Rock. This was the first meeting of the reorganized Academy of Science.

Dr. Mundie officially installed Dr. C. E. Hoffman as the new president of the Academy. Dr. Hoffman expressed his desire for an active and profitable Academy year, and adjourned the meeting.

Respectfully submitted,

Lowell F. Bailey, Secretary
Arkansas Academy of Science

PROGRAM

Friday, April 25

9:00 a.m. Registration.
11:00 a.m. Business Meeting.
12:30 p.m. Luncheon, Coral Room, Medical Center.
1:15 p.m. General Meeting. Welcome to Medical Center, Dr. Paul L. Day, Professor of Biochemistry. Speaker, Dr. Carey Stabler, President, Little Rock University.
1:50 p.m. General Lecture, Dr. James H. Stevenson, Head, Science Division, Little Rock University, "Fisheries Management of Lake Hamilton."
2:15 p.m. Sectional Meetings.
ARKANSAS ACADEMY OF SCIENCE

6:00 p.m. Banquet, Central High School Cafeteria. Speaker, Dr. Paul Sharrah, Professor of Physics, University of Arkansas, "Satellites and Space Travel."

7:30 p.m. State Science Fair Exhibit, Central High School Field House.

Saturday, April 26

9:00 a.m. Film, "Our Friend the Atom," a Walt Disney Production.
10:00 a.m. General Meeting, jointly with Junior Academy.
10:45 a.m. Business Meeting. Announcement of next year's meeting place. Adjournment by new president.
12:00 noon Awards Luncheon, Central High School Cafeteria.

SECTIONAL PROGRAM

Biology and Agriculture

Chairman: Jack Wood Sears
Harding College

Occurrence of Tree Species as Related to Underlying Rocks in the Arbuckle Mountains, Oklahoma. Edward E. Dale, Jr., University of Arkansas.


New Records for the Arkansas Flora. Dwight M. Moore, Arkansas Agriculture and Mechanical College.

Comparison of Growth Rates of Game Fish in Lake Catherine, Lake Hamilton and Lake Ouachita, Arkansas. Andrew H. Hulsey, Arkansas Game and Fish Commission, and James Stevenson, Little Rock University.


Spawning the Rainbow Trout. Film by Jack Atkins, University of Arkansas.
ARKANSAS ACADEMY OF SCIENCE

Chemistry

Chairman: E. S. Amis
University of Arkansas

Some Fundamental Reactions of Alkaloid Biogenesis. A. Smith, University of Arkansas.
Ionic Size. Kurt Stern, University of Arkansas.
The Stereochemistry of Copper (II). Robert Kruh, University of Arkansas.
The Kinetics of the Exchange of Oxygen Between Permanganate Ion and Water. H. O. McDonald, University of Arkansas.
The Isotope Effect in the Adsorption of Nitrogen. Marijon McClellan, University of Arkansas.
An Electron Exchange Study in Mixed Solvents. D. M. Mathews, E. S. Amis, J. D. Hefley, and J. O. Ware, University of Arkansas.
Speeding the Training of Chemists; Twenty-Four Years Experience with Twenty-Two Hundred Students. Otto Smith, Southern State College.

Collegiate

Chairman: Lyndal York
Harding College

Carotene, the Pigment, and Its Vitamin A Derivative. Lillian Blackmon, Ouachita Baptist College.
Determination of Particle Weights of Virus Mutants by Diffusion-Rate Studies. Gary Ackers, Harding College.
A Report on Spectrochemical Analysis. Franklin N. Horton, Ouachita Baptist College.
Prelude to Conflict: The Election of 1856. Mary Ann Faris, College of the Ozarks.
The Interrelation of Genes, Enzymes and Viruses. Lyndal York, Harding College.
Derivation and Application of Beer's Law. Harris Lloyd, Ouachita Baptist College.

Geology
Chairman: James H. Quinn
University of Arkansas
Regional Metamorphism of Basic Rocks in Northwestern Maine. Robert J. Willard, University of Arkansas.
Loess Deposits of Northern Arkansas. Harry L. Brown, Jr., University of Arkansas.
Multi-Channel Discharge of Rio Caroni, Venezuela, H. F. Garner, University of Arkansas.
Geology of the Southwestern Portion of Washington County, Arkansas. Ruey A. Ault, Charles E. Hollyfield, and James R. Ratliff, University of Arkansas.
Surfaces of Planation in the Paleozoic Areas of Arkansas. Harry Emerson Thomas, University of Arkansas.

History and Political Science
Chairman: Keith K. Petersen
University of Arkansas
Benjamin Franklin: From British Reformer to American Revolutionary, 1706-1790. Thomas Blossom, Southern State College.
The Leadership Principle of the National Socialist State. Murray Abend, Southern State College.

**Mathematics**

Chairman: Lee Lorch
Philander Smith College

On Numerical Methods of Solving Linear Equations, Collin Hightower, University of Arkansas.
The Undergraduate Honors Program at the University of Arkansas. John Keesee, University of Arkansas.
A Student Looks at a Visiting Lecturer. Robert Robinson, Philander Smith College.

**Physics**

Chairman: L. B. Ham
University of Arkansas

History and Purpose of the IGY. P. C. Sharrah, University of Arkansas.
Correlation of Auroral Displays and Terrestrial Magnetic Disturbances. C. Y. Fan, University of Arkansas.
Review of Recent Conferences on Laboratory Instructions. L. B. Ham, University of Arkansas.
Psychology and Sociology

Chairman: Robert C. Cannon
V. A. Hospital, Little Rock

Panel Discussion: A Proposal for a Doctoral Program in Psychology at the University of Arkansas. Panel: John Anderson and Philip Trapp, University of Arkansas. Moderator: Hardy Wilcoxon, University of Arkansas.

Science Education

Chairman: Robert Siegfried
University of Arkansas

The United States Position in World Science Education. Raymond R. Edwards, Graduate Institute of Technology, University of Arkansas.

Education Program of the Central Arkansas Section American Chemical Society. Robert L. Wixom, School of Medicine, University of Arkansas.

Education Committee Activities of the South Arkansas Section, American Chemical Society. R. M. Engelbrecht, Lion Oil Company.

Panel Discussion: Toward a Better Utilization of High School Science Courses in Beginning College Science Courses. Panel: John M. Smith, Horace Mann High School; B. C. Dodson, Crossett High School; Robert F. Kruh, University of Arkansas. Moderator: Robert Siegfried, University of Arkansas.

Geography

Chairman: O. O. Maxfield
University of Arkansas

(Presented by Title Only)