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 ARKANSAS ACADEMY OF SCIENCE

The Nominations Committee (J. W. Sears, Ruth Armstrong, and L. B. Ham) proposed the following new officers:

- H. L. Bogan, Arkansas State College
President-elect
W. L. Evans, University of Arkansas
Secretary
R. S. Fairchild, University of Arkansas
Treasurer

These officers were elected unanimously.

Dr. Neal D. Buffaloe, Arkansas State Teachers College, was installed as the new president and the business meeting was adjourned.

Respectfully submitted,

Lowell F. Bailey
Secretary-Treasurer
Arkansas Academy of Science

PROGRAM

Friday, March 20

- 9:00 a.m. Registration, Science Hall.
11:00 a.m. Business Meeting, Cathedral of the Ozarks, Lower Auditorium.
12:15 p.m. Luncheon, California Building, Cafeteria.
1:15 p.m. Science Education Section, Cathedral of the Ozarks, Lower Auditorium.
"Science Education Activities Planned and in Progress in Arkansas," Herman L. Bogan, Arkansas State College, in charge of program.
2:45 p.m. Section Meetings.
6:00 p.m. Banquet-Address. Blood Memorial Building.
Dr. R. E. Johnson, Professor of Mathematics, Smith College, Northampton, Massachusetts.
7:30 p.m. Bell Telephone Demonstration on Sound. Cathedral of the Ozarks.
8:30 p.m. Arkansas Science Teachers Association meeting.
8:00 p.m. Science Fair Exhibit, Gymnasium.

ARKANSAS ACADEMY OF SCIENCE

Saturday, March 21

- 9:00 a.m. Second Business Meeting. Library Conference Room. Treasurer's Report. Reports of standing committees and special committees. Election of Officers. Location of next year's meeting. New Business. Installation of officers.
- 10:30 a.m. General Session with Junior Academy and Collegiate Academy. Cathedral of the Ozarks, Lower Auditorium. Papers by Science Talent Search Winners.
- 12:15 p.m. Luncheon. California Building, Cafeteria. Presentation of Awards.

SECTIONAL PROGRAM

Biology and Agriculture

Chairman: Edward E. Dale, Jr.
University of Arkansas

- The Flora of Izard County. Albert Robinson, Jr., Kansas Wesleyan University.
- Growth Response of Loblolly Pines as a Result of the Control of Pinetip Moth Infestation. Lloyd O. Warren, University of Arkansas.
- Conversion of C₁ and C₂ Carbons of Saturated Fatty Acids to CO₂ by Fungus Cells. G. T. Johnson, University of Arkansas.
- The Influence of Exposure on Woody Vegetation on the Allen Soils of the Boston Mountain Region of Northwest Arkansas. M. Dean Harper and E. Moyer Rutledge, University of Arkansas.
- The Vegetation of Petit Jean Mountain as Determined by Analysis of Original Land Survey Records and by Present Day Studies. Jewel E. Moore, Arkansas State Teachers College.
- A Three-Year Creel Census of Lake Catherine, Lake Hamilton, and Lake Ouachita Arkansas. James H. Stevenson, Little Rock University, and Clinton Richards, Arkansas Game and Fish Commission.
- A Preliminary Report of Standing Crop and Rates of Harvest in Lake Fort Smith, Arkansas: 1957 Through 1958. Charles F. Cole and Samuel L. Finklestein, University of Arkansas.

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Notes on the Salamanders of Arkansas. Charles C. Smith, Arkansas College.

The Ecological Relationship Between the Occurrence of Squirrel Leaf-Nests in Different Types of Oak Forest Habitats. Ned Fogle and Chad L. Fogle, University of Arkansas.

An Inventory in 1957 of the Distribution of the Wild Turkey (*Meleagris gallopavo silvestris* Vieillet) in the Ozark Plateau Region of Arkansas. Douglas James, University of Arkansas, and John R. Preston, University of Arkansas, Arkansas Game and Fish Commission.

Chemistry

Chairman: Robert L. Wixom
University of Arkansas Medical School

Tracer Studies of the Mechanisms of Some Ketone Rearrangements. Arthur Fry, T. S. Rothrock and C. Adams, University of Arkansas.

New Shape Fission Counter for the University of Arkansas Accelerator. A. Poularikas, University of Arkansas.

Stereochemistry of Catalytic Hydrogenation. Samuel Siegel and G. V. Smith, University of Arkansas.

The Decarboxylation of Ethyl Hydrogen Phenylmalonate in Aqueous Ethanol. Charles T. Adams and Arthur Fry, University of Arkansas.

The Activation Energy of the U(IV)-U(VI) Electron Exchange Reaction in the Water-Ethanol System. Antonio Indelli and Edward S. Amis, University of Arkansas.

Continuous Measurement of Plant Effluent pH. Edwin A. Richardson, University of Arkansas.

An Undergraduate Physical Chemistry Laboratory Experiment in Nuclear Chemistry. D. M. Matthews and R. W. Fink, University of Arkansas Graduate Institute of Technology.

Stereoisomerisms in Organic Chemistry. William K. Noyce, University of Arkansas.

Studies on a Dehydrase in Valine Biosynthesis in Yeast. Robert L. Wixom, Murray Strassman and Jennie B. Shatton, University of Arkansas Medical School and Institute for Cancer Research, Philadelphia, Pa.

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Geology

Chairman: R. S. Rushing
Alice - Sidney Oil Company
El Dorado, Arkansas

Kress City Field. William B. Lines, Alice-Sidney Oil Co.

The Tuscaloosa Trend of Northeast Louisiana. John H. Gray, Munoco Company, El Dorado.

Petroleum Geologists Can Improve This Risk. R. S. Rushing, Alice-Sidney Oil Company.

Interpretation of Fracture Patterns in the Kennebago Lake Quadrangle, Maine. Robert J. Willard, University of Arkansas.

History and Political Science

Chairman: Gordon H. McNeil
University of Arkansas

Ministerial Cabinets in the IVth Republic. Jerome B. King, University of Arkansas.

The Elaine Race Riots. Oscar A. Rogers, Jr., University of Arkansas.

Valor and Caution in Constitutional Interpretation. Ralph G. Jones, University of Arkansas.

Mathematics

Chairman: Oliver T. Shannon
A. M. and N. College

The Rocking Cable Problem. John C. Sallis, University of Arkansas.

Lecture. R. E. Johnson, Smith College, North Hampton, Mass.

Physics

Chairman: L. B. Ham
University of Arkansas

The Science Fair in Science Education. R. A. McGee, Southern State College.

A Kinetic Analysis of the Decomposition of Sodium Light. J. G. Dodd, Drury 6

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College, Springfield, Mo.

Isotope Shifts in the First Spectrum of Palladium.

F. A. Sharpton, University of Arkansas.

Construction of an Atomic Beam Light Source. T. R.

Angel, University of Arkansas.

The Undertaking of a Spectroscopic Investigation

of Atomic Collision Processes Using the Univer-

sity's Cockroft-Walton Accelerator. R. C. War-

ing, University of Arkansas.

The Undertaking of a Study of the Polarization of

Light Emitted During Electron Impact. L. D. Wea-

ver, University of Arkansas.

Psychology and Sociology

Chairman: Robert C. Cannon

V. A. Hospital, North Little Rock

Flattened Affect and the Bender-Gestalt. William

M. Prado, V. A. Hospital.

Evaluation of an Instrument for Estimating Concep-

tual Achievement. Wesley D. Davis, Hendrix Col-

lege.

Diagnostic Relevance of the Wais Block Design Sub-

test. Daniel Taub and John Harrell, Arkansas

State Hospital.

Panel Discussion: Current Status and Future Devel-

opment of Psychology in Arkansas. Moderator: R.

Cannon, V. A. Hospital. Panel: John Anderson,

University of Arkansas; Hugh Lovett, State Direc-

tor of Vocational Counseling; Hardy Wilcoxon,

University of Arkansas; S. J. Fields, University

Medical Center; O. D. Murphree, V. A. Hospital;

Jerome Schiffer, V.A. Hospital, Gerard Bensberg,

Arkansas Child Development Center; Willard Frick,

Arkansas State College; Frederick Schnadt, V.A.

Hospital.

Science Education

Chairman: Herman L. Bogan

Arkansas State College

Science Education Programs Under Way and Planned

at the University of Arkansas. Lowell F. Bailey,

University of Arkansas.

Science Education Program Under Way in the Mathe-

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- matics Department of the University of Arkansas.
Dr. John Keesee, University of Arkansas.
- Title III of the National Defense Education Act and Its Implications for Possible Improvement in Public School Curriculum. Curtis R. Swaim, State Department of Education.
- A Survey of Qualifications of Teachers in the Fields of Science and Mathematics in Secondary Schools in Twenty-Five Counties of Northeast Arkansas.
Roy E. Dawson, Arkansas State College.
- Chemistry, a Liberal Art. Robert W. Shideler, Hendrix College.
- A List of Desired Competencies in the Physical Sciences. Leonard D. Goranson, Southern State College.

Papers Presented by Title Only

- Training Undergraduates to Use Radioisotopes in Biology, at the University of Arkansas. G. T. Johnson, University of Arkansas.
- Check Lists of Vascular Plants, Lichens and Bryophytes of Petit Jean Mountain. Jewel E. Moore, Arkansas State Teachers College.
- Literature on the Vegetation of Arkansas. Edward E. Dale, Jr., University of Arkansas.

ARKANSAS COLLEGIATE ACADEMY OF SCIENCE

- Lead Amalgam Storage Ore. Mike White, Harding College.
- An Ecological Analysis of a Post Oak-Hickory Forest in Northwest Arkansas. Bill Bagley and Lionel Burkes, University of Arkansas.
- Diffusion Rate Studies of a Bacterial Virus. Gary Ackers, Harding College.
- Reproduction and Development of the Common Water Snake. Don McCroddon, John Brown University.
- An Analysis of Vegetation in an Abandoned Orchard in Northwest Arkansas. Gerald Brown and Duane Rorie, University of Arkansas.
- Preliminary Notes on Gibberellic Acid. Dennis Wright, John Brown University.
- Notes Pertaining to Studies in Preparation of Camphor. Harris Lloyd, Ouachita Baptist College.