

1958

41st Annual Meeting, 1957. Program

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ARKANSAS ACADEMY OF SCIENCE

Forty-first Annual Meeting
University of Arkansas
Fayetteville, Arkansas
April 26-27, 1957

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President-Elect J. R. Mundie
Secretary-Treasurer L. F. Bailey

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R. S. Fairchild, Properties and Space
K. H. Stern, Publicity
L. F. Bailey, Science Fair

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PROGRAM

Friday, April 26

8:30 a.m. Registration.
10:00 a.m. Psychology Section meeting jointly with
Arkansas Psychological Association.
10:45 a.m. First Business Meeting.
11:00 a.m. Collegiate Section.
12:00 noon Luncheon, Uark Bowl.
1:15 p.m. General Meeting. The AAAS "Science
Teaching Improvement Program," by
Dr. I. A. Wallen, Assistant Director
of the Program.
Psychology Section Meeting.
2:15 p.m. Sectional Meetings.
6:30 p.m. Banquet, King Chicken. Address by Dr.
Daniel Mazia, "Growth and Division
of the Living Cell."
8:30 p.m. Science Fair Exhibit, Men's Gymnasium.

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Saturday, April 27

- 9:00 a.m. General Session with the Junior Academy. Selected papers from National Science Talent Search.
- 10:30 a.m. Second Business Meeting. Treasurer's Report. Reports of standing committees and special committees. Election of officers. Location of next year's meeting. New business. Installation of Officers. Adjournment by the new president.
- 11:30 a.m. Luncheon, Uark Bowl. Presentation of awards.
- 1:00 p.m. Botany Field Trip under the direction of Dr. Dwight M. Moore, to Martin's Bluff on White River.
Geology Field Trip under the direction of Dr. Kern Jackson and the Geology Department of the University of Arkansas, to Delaney on the White River.
Zoology Field Trip under the direction of Drs. Sealander, James, and Hoffman, to Devil's Den State Park: A combined bird-walk and cave exploration.

SECTIONAL PROGRAM

Biology and Agriculture

Chairman: J. L. Lancaster
University of Arkansas

- Performance of Different Types of Insecticides in an Area Where Boll Weevil Resistance was Suspected. Jerry Ford, University of Arkansas
- Trypetheliaceae in Arkansas. G. T. Johnson, University of Arkansas.
- New Records for the Arkansas Flora. Dwight M. Moore, University of Arkansas.
- The Effect of Systemic Insecticides on Growth and Fruiting of Cotton. Thomas F. Leigh, University of Arkansas.

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- The Epidermal Pore of Oxymitra Paleacea Bishoff, Eugene B. Wittlake, Arkansas State College.
- Growth Regulating Substances in Extracts of Maple and Pear Flower Buds. Dewey L. Tackett and Lowell F. Bailey, University of Arkansas.
- A Review of Oak Wilt Literature. Albert Robinson, Jr., Kansas Wesleyan University.

Chemistry

Chairman: W. K. Easley
East Tennessee State College

- The Occurrence of Barium-140 in Nonirradiated Uranium Salts. H. R. Heydegger and P. K. Kuroda, University of Arkansas.
- Some Research Problems in the Pulp and Paper Industry. K. G. Chesley, Director of Research, The Crossett Company, Crossett, Arkansas.
- The Magnetic Field Effect Upon Azeotropic Distillation. W. D. Guthrie and E. S. Amis, University of Arkansas.
- Physical Measurements on Catalysts and Their Significance. R. M. Engelbrecht, Research Department, Lion Oil Division, Monsanto Chemical Company, El Dorado, Arkansas.
- Liesegang Rings and Diffusion in Inhomogeneous Media. K. H. Stern, University of Arkansas.
- Polymers and Spinning Techniques of Interest in Forming Synthetic Fibers. J. Bruce Ballentine, Group Leader, The Chemstrand Corporation, Decatur, Alabama.
- Some Characteristics of Amorphous Lead Azide. Brian S. Miller and Allen F. Robinette, Arkansas State Teachers College.

Geology

Chairman: Norman Williams
Arkansas Geological and Conservation Commission

- Loess Deposits of Northwest Arkansas. James H. Quinn, University of Arkansas.
- Stratigraphy of the pre-Atokan Carboniferous of the Arkansas Valley. Thomas J. Freeman, University of Arkansas.

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Bloyd-Atoka Relationship in an Area of Northwest Arkansas. Bernal Ray Knox (Paper presented by Kern C. Jackson), University of Arkansas.
Geology of Township 12 North, Range 21 West, Johnson County, Arkansas. Charles G. Stone, University of Arkansas.

History and Political Science

Chairman: Gordon McNeil
University of Arkansas

The Library of a Revolutionary Leader, Antonio Nariño. Thomas Blossom, Southern State College.
English-Speaking Travellers in Brazil, 1851-1887. Charles G. Hamilton, College of the Ozarks.
The Role of the Intellectual in Politics. Terry Hoy, University of Arkansas.
The Oder-Neisse Line. Richard F. Staar, Harding College.

Physics

Chairman: R. H. Hughes
University of Arkansas
(Presiding Chairman: B. F. Stearns,
University of Arkansas)

A Continuation of Fractional Versus Multiple Loudness Studies. L. B. Ham, University of Arkansas.
A Direction Dependent Loudness Effect. Frank Biggs, University of Arkansas.
Measurement of Absorbed Ultraviolet Radiation Using a Thermistor Bridge. J. G. Dodd, Jr., Drury College.
The Crystalline Structure of Selected Azides. F. Kezer and J. Petz, University of Arkansas.
A Simple, Inexpensive Apparatus for the Demonstration and Measurement of Centrifugal Force. G. Lingelbach, University of Arkansas.
An Experiment with a Physics Problem Solving Service. Frank Biggs, Paul Sharrah, and B. F. Stearns, University of Arkansas.

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Psychology

(Meeting jointly with the Arkansas Psychological Association)

Chairman: Frederick Schnadt
V. A. Hospital, North Little Rock

Business Meeting of Arkansas Psychological Association.

Panel Discussion: Activities and Policies, Board of Examiners in Psychology. Moderator, John Anderson, University of Arkansas.

Sensory Discriminations in Human Brain Damage. Robert C. Cannon, V. A. Hospital, North Little Rock.

The Relationship Between a Time Score and Anxiety Score on the Taylor Anxiety Scale. Donald H. Kausler and E. Philip Trapp, University of Arkansas.

Influence of Di-phenyl-barbituric Acid on the Convulsive Threshold and Learning Rate of Rats. Oddist D. Murphree, V.A. Hospital, North Little Rock and Lloyd D. Seager, University of Arkansas Medical School.

Panel Discussion: Training Needs for Psychologists in Arkansas. Moderator: H. Wilcoxon, University of Arkansas. Panel: Johan Eliot, State Board of Health, Little Rock; S. J. Fields, University Medical Center; Merton Schmolke, State Hospital, Little Rock; Fred Schnadt, V. A. Hospital, North Little Rock; J. V. West, Hendrix College, Conway; Wayne White, Superintendent of Schools, Fayetteville.