

1960

44th Annual Meeting, 1960. Program

Academy Editors

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Recommended Citation

Editors, Academy (1960) "44th Annual Meeting, 1960. Program," *Journal of the Arkansas Academy of Science*: Vol. 14, Article 4.

Available at: <https://scholarworks.uark.edu/jaas/vol14/iss1/4>

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ARKANSAS ACADEMY OF SCIENCE

Mr. Bogan expressed the need for better publicity of Academy of Science activities. At the suggestion of Mr. McEver, the President was requested to appoint a publicity director for the Academy and to authorize expenditures not exceeding \$25 annually for publicity purposes. The Senior Academy should be the major concern of this publicity. Mr. Bogan appointed J. W. Sears to the publicity directorship.

Mrs. Giles sponsored a vote of thanks to the local committee concerned with the State Science Fair, and to Miss Reid, Miss Dunn, and Mrs. Hines for their sponsorship of science fair and Junior Academy activities.

The meeting adjourned at 10:15 a.m.

Respectfully submitted,

Lowell F. Bailey
Acting Secretary

PROGRAM

Friday, April 1

- 9:00 a.m. to
2:30 p.m. Registration, Lobby of W. O. Young Student Center.
11:00 a.m. Business Meeting, Ballroom of W. O. Young Student Center.
12:15 p.m. Luncheon, College Cafeteria.
1:15 p.m. Science Education Section, W. O. Young Student Center.
"Science Education Activities Planned and in Progress in Arkansas," Lowell F. Bailey, University of Arkansas, in charge of program.
2:30 p.m. to
4:30 p.m. Section Meetings.
4:30 p.m. Arkansas Science Teachers Association Meeting, W. O. Young Student Center.
6:30 p.m. Banquet, Cafeteria Dining Hall.
7:30 p.m. Traveling Science Teacher Program, Mrs. Alice Brooks, Ozark Science Teacher, Cafeteria Dining Hall.
8:30 p.m. Presentation of Science Fair Awards, Cafeteria Dining Hall.
8:30 p.m. to
10:00 p.m. Science Fair Exhibit, Women's Gymnasium.

ARKANSAS ACADEMY OF SCIENCE

Saturday, April 2

- 9:00 a.m. Second Business Meeting, W. O. Young Student Center. 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, W. O. Young Student Center. Papers by Science Talent Search Winners. Dr. L. J. Paulisen in charge.
- 11:45 a.m. Luncheon, College Cafeteria.

SECTIONAL PROGRAM

Biology and Agriculture

Chairman: C. F. Cole
University of Arkansas

SOME RECENT FINDINGS CONCERNING THE AVIFAUNA IN ARKANSAS.
Douglas James, University of Arkansas.

THE FISHES OF THE ILLINOIS-NEOSHO COMPLEX IN ARKANSAS. Edwin Bullington and Charles F. Cole, University of Arkansas.

BOTANICAL OBSERVATIONS IN SOUTH VIETNAM. Dwight Moore, Arkansas Agricultural and Mechanical College.

EFFECTS OF TEMPERATURE ON THE ESTABLISHMENT OF ORAL AND BRANCHIAL MOVEMENTS OF ANURAN EMBRYOS. James H. Friborough, Little Rock University.

NOTES ON THE SALAMANDERS OF ARKANSAS. THE STATUS OF DESMOGNATHUS IN ARKANSAS. Charles C. Smith, Arkansas College.

SOME ASPECTS OF COTYLEDON GROWTH IN TISSUE CULTURE. Reece Corey, University of Arkansas.

A STUDY OF THE SUBSPECIES OF EURYCEA LONGICAUDA IN ARKANSAS AND ADJACENT STATES. Charles C. Smith, Arkansas College.

THE LIGNEOUS FLORA ON CONTRASTING SITES AT LONGPOOL, POPE COUNTY, ARKANSAS. Lowell A. Logan, Arkansas Polytechnic College.

Chemistry

Chairman: Mrs. Virginia Kirk
Arkansas College

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- OXYGEN FUNCTION REARRANGEMENT IN 3, 3-DIMETHYL-2-BUTANONE-2-C¹⁴. Arthur Fry and Charles T. Davis, University of Arkansas.
- A STUDY OF TRANSFERENCE AND SOLUTION PHENOMENA IV. POTASSIUM CHLORIDE IN WATER, WATER-ETHANOL, AND ETHANOL SOLVENTS. James O. Wear, Claude V. McNully, and Edward S. Amis, University of Arkansas.
- DIELECTRIC BEHAVIOR IN POLAR SOLVENTS. A. Wallace Cordes, University of Arkansas.
- X-RAY DIFFRACTION STUDIES OF SOLUTIONS. Charles Standley, University of Arkansas.

Geology

Chairman: K. C. Jackson
University of Arkansas

- A METHOD OF TEACHING BASIC CRYSTALLOGRAPHY TO THE BEGINNING STUDENT. Robert J. Willard, University of Arkansas.
- GEOLOGY OF THE RODESSA FORMATION OF SOUTHWESTERN ARKANSAS. J. H. Lybarger, University of Arkansas.
- APPLICATION OF POLYNOLOGY IN THE STUDY OF TERTIARY ROCKS IN ARKANSAS. Eugene Jones, Arkansas Polytechnic College.
- GEOLOGY OF T 15 N, R 31 AND 32 W, WASHINGTON COUNTY, ARKANSAS. L. H. Wainright, University of Arkansas.
- PALEONTOLOGY, A STRATIGRAPHIC TOOL? J. H. Quinn, University of Arkansas.

History and Political Science

Chairman: Keith Peterson
University of Arkansas

- GERMAN SHIPPING AND MEXICO AT THE TURN OF THE TWENTIETH CENTURY. Warren Schiff, Little Rock University.
- WINTER AND SPRINGTIME: THE PASSING OF A LITERARY GENERATION IN 1901. Kenneth R. Walker, Arkansas Polytechnic College.
- POLITICAL TRENDS IN THE 1959 OFF-YEAR ELECTIONS: THE CASE OF KENTUCKIANA. George C. Roberts, University of Arkansas.

Mathematics

Chairman: John Keesee
University of Arkansas

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- LOOPS AND GROUPS AND SEMI GROUPS. Jim Criner, University of Arkansas.
- ON THE WRONSKIAN DETERMINATE. Alan Johnson, University of Arkansas.
- SOME THEOREMS IN GEOMETRY. John Keesee, University of Arkansas.

Physics

Chairman: Ronald A. McGee
Southern State College

- DESIGN AND CONSTRUCTION OF A 150 KV POSITIVE ION ACCELERATOR FOR THE UNIVERSITY. Travis Walton, University of Arkansas.
- SPECTRA INDUCED BY 200 KEV PROTONS IMPACT ON HELIUM. R. Waring, University of Arkansas.
- SPECTRA INDUCED BY 200 KEV PROTON IMPACT ON NITROGEN. J. Philpot, University of Arkansas.
- SPECTRA INDUCED BY 200 KEV PROTON IMPACT ON AIR AND HYDROGEN. Lynn Hatfield, University of Arkansas.
- WHISTLERS. Alex Poularikas, University of Arkansas.
- PROPOSED RESEARCH IN THE PHYSICS OF GASES AT THE UNIVERSITY OF ARKANSAS. Otto Henry Zinke, University of Arkansas.
- DESIGN AND OPERATING CHARACTERISTICS OF A NEW TYPE LABORATORY CELL. John (Mike) White, Harding College.
- RATE PROCESSES IN DECOMPOSING AZIDES. Jack G. Dodd, Drury College.
- PHYSICS FOR LIBERAL ARTS: AN EXPERIMENT. Jack G. Dodd, Drury College.
- A STUDY OF THE LAWS OF MAGNETISM. William F. Moore, Southern State College.

Science Education

Chairman: Lowell F. Bailey
University of Arkansas

- THE NEW ARKANSAS SCIENCE FAIR ASSOCIATION, INCORPORATED. W. H. Walters, Minnesota Mining and Manufacturing Company, Little Rock, Arkansas.
- A RESEARCH PARTICIPATION PROGRAM FOR UNDERGRADUATES IN THE PHYSICAL, BIOLOGICAL, AND ENGINEERING SCIENCES. W. L. Evans, University of Arkansas.
- THE IMPACT OF THE NATIONAL DEFENSE EDUCATION ACT, TITLE

ARKANSAS ACADEMY OF SCIENCE

- III, ON SCIENCE FACILITIES IN ARKANSAS SCHOOLS. Wallace Ford, State Department of Education, Little Rock, Arkansas.
- THE AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES CURRICULUM STUDY - A PROGRESS REPORT. James H. Fribourgh, Little Rock University.
- A VISITING SCIENTIST'S PROGRAM SPONSORED BY THE ARKANSAS ACADEMY OF SCIENCE. John Keesee, University of Arkansas.