1957

40th Annual Meeting, 1956. Program

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ARKANSAS ACADEMY OF SCIENCE

Fortieth Annual Meeting
Ouachita Baptist College
Arkadelphia, Arkansas
April 20–21, 1956

Friday, April 20

8:00 a.m. Registration.
10:30 a.m. First Business Meeting, Dr. W. W. Nedrow presiding. Welcoming address by Dr. H. Preston James, Dean of Faculty, Ouachita Baptist College.
12:00 m. Luncheon, First Baptist Church.
1:30 p.m. General Meeting. Preliminary study of factors relative to fish production in Lake Catherine, Lake Hamilton, and Lake Ouachita. James Stevenson, Little Rock, Arkansas.
2:00 p.m. Sectional Meetings: Biology and Agriculture, Chemistry, College, Geology, History and Political Science, Mathematics, Physics, Psychological and Sociological Section.
4:00 p.m. Tea. Bailey Hall.
6:30 p.m. Banquet and Annual Lecture, Caddo Hotel. Lecturer, Dr. Delbert Swartz.
8:30 p.m. Judging of Junior Academy Exhibits.

Saturday, April 21

8:00 a.m. Coffee and Doughnuts. Student Center.
9:30 a.m. Joint Meeting of Senior and Junior Academies of Science.
12:00 m. Informal Luncheon, College Cafeteria.
1:00 p.m. Field Trip.

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SECTIONAL PROGRAM

Biology and Agriculture

Chairman: Elizabeth Brinkley
Henderson State Teachers College


Noteworthy Plants and Plant Communities of Southern Arkansas. Dwight M. Moore, University of Ark.

Effect of Late Spring Freezing Temperatures on Winter Cott Fertilized with Highly Soluble Phosphate Sources. C. L. Garey, University of Ark.

Chemistry

Chairman: Aubrey E. Harvey
University of Arkansas


The Exchange of Isotopic Oxygen Between Several Oxy-Anions and Water. T. C. Hoering, University of Ark.

Dissociation Pressure of Inorganic Salts. Kurt H. Stern, University of Ark.

The Effect of Insulin on Tissue Distribution of D and L Arabinose. Stanley Bakshy and Jacob Sacks, University of Ark.
The Isotope Effect Study of the Mechanism of the Condensation of Formaldehyde with 4-Hydroxy Coumarin-3-C14. T. S. Rothrock and Arthur Fry, University of Ark.

Studies on the Kinetics of Isothermal Decomposition of Potassium Perchlorate at Constant Pressure. Carl J. Wassink and Aubrey E. Harvey, University of Ark.

College
Chairman: Lyndal York
Harding College
Topology. Ronald Harrist, Harding College.
Science and Industry. Roby Bearden, Ouachita College.
Pi. Carlisle Philips, Ouachita College.
A Spectroscopic Study of Groups I and II. Lyndal York, Harding College.
The Theory and Development of Television. Herbert Jennison, Ouachita College.

Geology
Chairman: E. L. Jones
Arkansas Polytechnic College
Plateau Surfaces of the Ozarks. J. H. Quinn, University of Ark.
Size Analysis and Interpretation of the Hartshorne Sandstone of the Arkansas Valley. W. B. Lines, University of Ark.
Structure of the Nick Springs and West Nick Springs Oil Fields, Union County, Arkansas. R. S. Rushing, University of Ark.

History and Political Science
Chairman: Charles Hamilton
The College of the Ozarks

Henry Lane Wilson and the Death of Madero. Lowell L. Blaisdell, Arkansas Polytechnic College.

Robert Hales and the Swiss Church. William A. Bultman, Arkansas State Teachers College.


The Prelude to Munich. Dolphus Whitten, Jr., Henderson State Teachers College.


Mathematics

Chairman: Garland D. Kyle
Arkansas Mechanical and Normal College


Physics

Chairman: B. L. Robinson
University of Arkansas


Design of Corner Horn Loudspeakers. Paul W. Klipsch, Hope, Ark.

Psychological and Sociological

Chairman: E. P. Trapp
University of Arkansas


Assault by Test and Battery. Sidney J. Fields,
University of Ark, School of Medicine.
Pre-test and Post-test Estimates of Level of Performance on an Achievement Test. Donald H. Kausler, University of Ark.
An Image of America. Lewis M. Long, University of Ark., School of Medicine.
Attitude Changes Toward Mental Health as Related to a College Course in Abnormal Psychology. E. Phillip Trapp, University of Ark.
Disaster Reaction. W. R. Quick, Ouachita Baptist College.