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FRIADAY MORNING, MAY 5
10:00 Registration.
11:00 Meeting Call to Order. Welcome by the President of the Academy.
11:15 Address: "A Mycologist Views the Individual," Dr. Delbert Swartz, University of Arkansas.

FRIADAY NOON, MAY 5
12:30 Luncheon. Initial Business Meeting (reading of minutes, announcements, election of new members).

FRIADAY AFTERNOON, MAY 5
2:00 Sectional Meetings. Biology; Chemistry; Geology; Mathematics; Physics; Social Research; History (Biography, Genealogy, Methods of Research Sections).

FRIADAY EVENING, MAY 5
6:15 Dinner
7:30 Address. "Methods Employed in the Characterization of Viruses," Dr. C. E. Duffy, University of Arkansas Medical School. (Joint meeting with the Society of the Sigma Xi.)

FRIADAY AFTERNOON, 2:00 P.M.
SECTIONAL PROGRAM
BIOLOGICAL SCIENCE SECTION
Chairman: E. A. Spessard, Hendrix College

B-1-1

B-2-2

B-3-3

On the Growth Requirements of Streptobacillus Moniliformis. M. Dumoff and C. E. Duffy, Medical School, University of Arkansas, Little Rock.


New Genera and Species of Oniscoid Millipeds (Desmonidae; Polydesmoidea). Nell B. Causey, Fayetteville.


Some New Records for the Arkansas Flora. Dwight M. Moore, University of Arkansas, Fayetteville.

FRIDAY AFTERNOON, 2:00 P.M.

SECTIONAL PROGRAM

CHEMISTRY SECTION

Chairman: P. G. Horton,
Henderson State Teachers College


Paper from Sericea. Maurice E. Barker, Department of Chemical Engineering, University of Arkansas, Fayetteville.

The Effect of Brewer's Yeast and of Riboflavin on the Growth Suppression Brought About by a High Level of Glycine and Choline in Rats. Barbara Kelley and Martha Northrup, Department of Biochemistry, School of Medicine, Little Rock.

Chemical Effects of Nuclear Transformations. R. R. Edwards and R. F. Overman, Nucleonics Department, Institute of Science & Technology, University of Arkansas, Fayetteville.
PROGRAM

C-5-15
The Effects of X-Irradiation on Chicken Bone Marrow Enzymes. James S. Dinning, I. Meschan, and Paul L. Day, Departments of Biochemistry and Radiology, School of Medicine, University of Arkansas, Little Rock.

C-6-16

C-7-17

C-8-18
The Methylation of Guanidoacetic Acid by the Rat. Edward M. Popp, James S. Dinning, and Paul L. Day, Department of Biochemistry, School of Medicine, University of Arkansas, Little Rock.

C-9-19
Spectrophotometric Determination of Empirical Formulae. Aubrey E. Harvey and Delmer L. Manning, University of Arkansas, Fayetteville.

GEOLOGY SECTION

Chairman: H. B. Foxhall,
Director of Division of Geology
Arkansas Resources and Development Commission

G-1-20
The Relationship Between the Coefficients of Permeability and Storage and the Age of Rocks in the Arkansas Coastal Plain. Harlan B. Counts, U. S. G. S., Ground Water Div., Little Rock.

G-2-21

G-3-22
Tripoli of Northwest Arkansas. Denny P. Schafer, Seismograph Service Corp., Tulsa, Oklahoma.

G-4-23
Stratigraphy of the Eastern Part of the Philpot Coal Field. Edward W. McRae, University of Arkansas, Fayetteville.

DISCUSSION

G-5-24
Topographic Relation of the Brentwood Limestone. W. D. Diggs, University of Arkansas, Fayetteville.

G-6-25
Para-Ripples in Limestone. V. O. Tansey, University of Arkansas, Fayetteville.

DISCUSSION
MATHEMATICS SECTION

Chairman: C. L. Perry,
University of Arkansas

M-1-26

M-2-27

M-3-28
Moment-Generating Functions and Laplace Transforms. James F. Miller, University of Arkansas, Fayetteville.

M-4-29
The Evaluation of the Rate Constants of a Chemical Reaction. Clifton Bob Clark, University of Arkansas, Fayetteville.

M-5-30
On the Elliptic Plate with a Hole. C. L. Perry, University of Arkansas, Fayetteville.

Discussion of College Algebra Courses.

PHYSICS SECTION

Chairman: L. B. Ham,
University of Arkansas

P-1-31
The Learning Process in the Physics Laboratory. L. B. Ham, University of Arkansas, Fayetteville.

P-2-32
Teacher Training in Demonstration Techniques. J. A. Doughty, University of Arkansas, Fayetteville.

P-3-33

P-4-34
Notes Concerning Cloud Chamber Experiments with Positrons. H. M. Schwartz, University of Arkansas, Fayetteville.

P-5-35

P-6-36
Intensity Determinations of Magnetic Fields by Photoelectric Means. Z. V. Harvalik, University of Arkansas, Fayetteville.


SOCIAL RESEARCH SECTION
Chairman: F. Adler,
University of Arkansas


The Washington County Mental Health Survey: A Follow-up of Patients Admitted to the Arkansas State Hospital, 1930-48. Leta M. Adler, University of Arkansas, Fayetteville.


Recent Income Trends in Arkansas. Ernest C. Harvey, University of Arkansas, Fayetteville.

The Cahinnio Caddo, A Contact Unit In the Eastern Margin of the "Caddo Area." Dr. and Mrs. Thomas L. Hodges, Bismarck.

The Elements Delimiting the Boston Mountains of Arkansas as a Geographic Region. O. Orland Maxfield, University of Arkansas, Fayetteville.


Ethics Cannot be Based on Emotions. Maximilian Beck, Central College, North Little Rock.
ARKANSAS ACADEMY OF SCIENCE

HISTORY (BIOGRAPHY, GENEALOGY, METHODS OF RESEARCH SECTIONS)

Chairman: John P. Anderson,
Hendrix College, Conway

H-1-49
The Fight for the Pre-emption Law of 1841. S. Lyle Johnson, University of Arkansas, Fayetteville.

H-2-50
The German Social Democracy's View of the Revolutionary General Strike as a Proletarian Weapon Against War. Richard J. Hostetter, University of Arkansas, Fayetteville.

H-3-51
The Workingmen's Parties of 1828-1831. Roman J. Zorn, University of Arkansas, Fayetteville.

H-4-52
Alexander Turrentine and His Descendants. G. R. Turrentine, Arkansas Polytechnic College, Russellville.

H-5-53

H-6-54

H-7-55

H-8-56

DISCUSSION

SATURDAY MORNING, MAY 6, 9:00 A.M.

GENERAL MEETING

Chairman: R. H. Austin

I-57
Arkansas' Position in Eastern United States Archaeology. Lynn E. Howard, University of Arkansas, Fayetteville.

II-58
Arkansas Water Resources. Harrison Hale and G. A. Billingsley, University of Arkansas, Fayetteville.
PROGRAM

III-59
A Method of Calculating Exposures for Photomicrographs. Harold M. Hefley, University of Arkansas, Fayetteville.

IV-60
Some Botanical Aspects of Petit-Jean Mt. Dwight M. Moore, University of Arkansas, Fayetteville.

V-61
The Need for Additional Training Facilities for Public Welfare Personnel in Arkansas. Sylvia Childs, University of Arkansas, Fayetteville.

VI-62

Business Meeting: Treasurer’s Report
Report of Standing Committees
Report of Special Committees
Election of Officers for next term
Appointment of Committees
Location of next year’s meeting
New business

SATURDAY NOON, MAY 6, 12:15 P.M.

Informal luncheon

SATURDAY AFTERNOON, MAY 6, 1:30 P.M.

Sectional Meeting (Psychology Section)
Arkansas Academy of Science, 34th Annual Meeting adjourned.

SATURDAY AFTERNOON, 1:30 P.M.

SECTIONAL PROGRAM

PSYCHOLOGY SECTION

Chairman: S. M. Roshal,
University of Arkansas

Ps-1-63
Effect of Monochromatic Light on Color Perception. Z. V. Harvalik, University of Arkansas, Fayetteville.

Ps-2-64
Abstract Thinking and Personal Adjustment. Henry N. Peters, Veterans Administration Hospital, North Little Rock.

Ps-3-65
The Estimation of $\theta$ in the Method of Paired Comparison and Its Application to the Quantification of Reaction Potential. R. H. Burros, University of Arkansas, Fayetteville.

DISCUSSION
Meetings of Arkansas Psychological Association

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