1952

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ARKANSAS ACADEMY OF SCIENCE
THIRTY-FIFTH ANNUAL MEETING
University of Arkansas, Fayetteville
April 27-28, 1951

FRIDAY MORNING, APRIL 27
10:00 Registration
10:30 Meeting Called to Order. Welcome by the President of the Academy. Welcome by the Honorable Powell Rhea, Mayor of Fayetteville
10:40 First Business Meeting

FRIDAY NOON, APRIL 27
12:15 Luncheon

FRIDAY AFTERNOON, APRIL 27
1:00 Address: Science in the Service of the People, Lewis Webster Jones, President, University of Arkansas.
2:00 Sectional Meetings. Biology, Chemistry, Geology, Physics, Psychology, Economics, History, Political Sciences, Mathematics, Sociology and Science Education Divisions.

FRIDAY EVENING, APRIL 27
6:15 Dinner
8:00 Address: Art as Education in Freedom, Irwin Edman, Columbia University. (Joint meeting with Regional Art Conference.)

FRIDAY AFTERNOON, 2:00 P.M.
SECTIONAL PROGRAM
BIOLOGY SECTION
Chairman: E. A. Spessard, Hendrix College

B-1-1 Virus Diseases in Arkansas Strawberries, J. P. Fulton, University of Arkansas.
B-2-2 The Larval Stages of the Millipede Brachycyte Lecontei (Wood) (Polyzoniidae: Colobognatha), R. Stewart, University of Arkansas.
B-3-3 A Check List of the Millipede of Arkansas, N. B. Causey, University of Arkansas.
B-4-4 New Additions to the Flora of Arkansas, L. G. K. Carr, Hendrix College.
B-6-6 Poisonous Plants in Arkansas, D. M. Moore, University of Arkansas.
B-7-7 A Study of the Plankton of Lake Fort Smith, Arkansas, C. E. Hoffman, University of Arkansas.
B-8-8 Physiology of Leaf Abscission, J. M. Jackson, University of Arkansas.
B-9-9 Breeding Cereal Crops for the Control of Diseases, H. R. Rosen, University of Arkansas.
B-10-10 Effect of Different Ionic Ratios of Nutrients on the Growth Response of Young Cotton Plants, F. W. Snyder, University of Arkansas.
CHEMISTRY SECTION
Chairman: T. E. McEver, Arkansas Polytechnic College


C-2-12 Some Raw Materials that Might Support Arkansas Industries, M. E. Barker, University of Arkansas.

C-3-13 The Preparation of Various Types of Sericea Paper Pulp, J. Byrd, University of Arkansas.

C-4-14 Wallboard: How It Is Made from Arkansas Raw Materials, S. Griffith, University of Arkansas.

C-5-15 Conversion of Sericea Pulp into Chemical Derivatives, J. DePagter, University of Arkansas.

C-6-16 Heat Transfer to Boiling Liquids, C. M. Gamel, University of Arkansas.

C-7-17 Co-Separation of Sulphate Ion with Barium Chromate, M. Dworshak, College of the Ozarks.

C-8-18 Investigation of the Dipping Mercury Electrodes for Alkali Determination, W. J. Smothers, University of Arkansas.

C-9-19 Flotation of Graphite from Arkansas Ores, Z. V. Harvalik, University of Arkansas.

C-10-20 A Laboratory Experiment in the Determination of Formal Oxidation Potentials, D. L. Manning, A. E. Harvey, University of Arkansas.

ECONOMICS SECTION
Chairman: E. C. Harvey, University of Arkansas

E-1-21 Methods and Problems in the Measurement of Economic Change in States, R. M. Soldofsky, University of Arkansas.

E-2-22 The Construction of a Balance of Payments for an Intranational Region, V. Q. Alvis, University of Arkansas.

E-3-23 Financing the Development of Industry in Arkansas, A. P. Thompson, University of Arkansas.

E-4-24 The Contribution of Automobile Travelers in the Arkansas Tourist Industry, E. C. Harvey, University of Arkansas.

Meeting of the Society of Arkansas College Teachers of Economics and Business.

GEOLOGY SECTION
Chairman: R. C. Baker, U. S. G. S., Little Rock


G-3-27 Detailed Stratigraphy at Norfork Dam, Baxter County, Arkansas, R. E. Whitla, Corps of Engineers.

G-4-28 Pennsylvanian Stratigraphy of Johnson County, Arkansas, M. E. Hopkins, University of Arkansas.

G-5-29 Structural Control of Topography as Exemplified Along Pine Creek, Southeastern Benton County, Arkansas, J. M. Graves, University of Arkansas.

G-6-30 Areal Distribution of Surface Radio Activity in the Pottasch Sulphur Springs Complex, Garland County, Arkansas, R. H. Arndt, P. E. Damon, R. B. Straw, University of Arkansas.


PROGRAM

HISTORY AND POLITICAL SCIENCES SECTION

Chairman: R. Hostetter, University of Arkansas

HP-1-34 The Planning Agency in State Governments, W. S. Bonner, University of Arkansas.
HP-3-36 World Leadership by Indirection--A Tentative Estimate of Some Sources of America's Present Position in World Affairs, R. G. Jones, University of Arkansas.
HP-4-37 The Establishment of a Dictatorship in Florence, Italy in 1342, M. B. Becker, University of Arkansas.
HP-5-38 Europe and the Peace, B. C. Shafer, University of Arkansas.

Discussion of Papers.

MATHEMATICS SECTION

Chairman: D. P. Richardson, University of Arkansas

M-1-39 A Note on two Quadratics, D. M. Seward, Ouachita College.
M-2-40 Measure Preserving Transformations in the Tensor and Spinor Calculus, G. S. Hewitt, University of Arkansas.
M-3-41 What Is a Riemannian Manifold?, F. Griffin, Philander Smith College.
M-4-42 On the Pendulum Problem, S. L. Hull, University of Arkansas.
M-5-43 An Inversion Problem in Scattering Theory, H. M. Schwartz, University of Arkansas.
M-6-44 Probability Distribution Functions Arising from Weighted Sums, H. Shnaid, University of Arkansas.
M-7-45 Grades and Statistics, R. V. Simpson, University of Arkansas.
M-8-46 Mathematics in General Education, J. R. Abernethy, Arkansas Polytechnic College.

Discussion of General Papers.

PHYSICS SECTION

Chairman: P. C. Sharrah, University of Arkansas

P-1-47 X-ray Investigations of Arkansas Graphites, J. A. Doughty, University of Arkansas.
P-3-49 Design of Proposed Beta Spectrometer at the University of Arkansas, A. J. Smur, University of Arkansas.
P-5-51 Eliminating Cook-Book Procedures in General Physics Laboratory, O. C. Estes, Henderson State Teachers College.
P-6-52 Loop Line Windowless Flow Geiger Counter, P. E. Damon, University of Arkansas.

Discussion of Papers.

PSYCHOLOGY SECTION

Chairman: M. E. Thompson, University of Arkansas

Ps-1-55 50% Versus 100% Punishment in the Modification of Position Habits, J. P. Crumpler, University of Arkansas.
Ps-2-56 Can Stimulus--Response Learning Theory Explain Abnormal Fixations, H. C. Wilcoxen, University of Arkansas.
Ps-3-57 Techniques for Reducing Skewness, R. H. Burros, University of Arkansas.
Ps-4-58 Flight of Colors from a Monochromatic Light, J. L. Fletcher, University of Arkansas.
Ps-5-59 A Nonintellectual Personality Inventory Scale for the Prediction of College Achievement, C. N. Cassidy, University of Arkansas.

Ps-6-60 Reaction Time in Word Associations, H. W. Sageser, College of the Ozarks.

Discussion of General Papers.

SOCIOMETRY SECTION
Chairman: T. C. Cothran, A., M. & N. College

S-1-61 The Place of the Sociologist in a Rural Health Program, H. Robinson, University of Arkansas.


S-3-63 Manifest and Latent Function in the Theory of Malinowski, M. J. Daniels, Arkansas Polytechnic College.

S-4-64 Negro-White Differential Marital Fertility, M. A. Lawson, Philander Smith College.

S-5-65 The State: A Sociological or Juridical Entity, R. Parker, University of Arkansas.

Discussion of Papers.

SCIENCE EDUCATION SECTION
Chairman: B. H. Gundlach, University of Arkansas


SE-2-67 Demonstration and Operation of a Continuous Cloud Chamber Built from Simple Equipment, P. B. Horton, University of Arkansas.

SE-3-68 A Simple Laboratory Power Supply, C. Allen, University of Arkansas.

SE-4-69 Demonstration Techniques with Home-Built Equipment, J. A. Doughty, University of Arkansas.

SE-5-70 Chemistry as a Social Study and as a Disciplinary Subject, E. S. Amis, A. S. Humphreys, University of Arkansas.

SE-6-71 Values to Be Instilled in Pupils of Secondary School Science, J. D. Henry, University of Arkansas.

SE-7-72 General Education, the Teacher and the Community, D. P. Richardson, University of Arkansas.


Discussion on Organization of a Junior Academy of Science as Head Organization of Science Clubs in Arkansas.

SATURDAY MORNING, APRIL 28

8:45 Second Business Meeting. Treasurer’s Report
Report of Standing Committees
Report of Special Committees
Election of Officers
Appointment of Committees
Location of next year’s meeting
New business

9:30 Symposium. Resources of Arkansas.

Agriculture, Dean L. S. Ellis, University of Arkansas.


Research, F. Soday, Lion Oil Company.

Social Resources, H. S. Ashmore, Arkansas Gazette.

12:00 Arkansas Academy of Science, 35th Annual Meeting adjourned.
PROGRAM

SATURDAY NOON, APRIL 28.

12:15 Informal luncheon

SATURDAY AFTERNOON, APRIL 28

1:30 Field trip to "the Narrows" of White River east of Springdale. Arranged by D. M. Moore, Professor of Botany, University of Arkansas.

1:30 Participation in Agri Day.

Officers of the Academy:
President: R. H. Austin
Vice-President: H. B. Foxhall
Secretary: W. W. Grigorieff
Treasurer: T. L. Smith
Editor: Dwight M. Moore

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