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Arkansas Academy of Science

Thirty-Ninth Annual Meeting

Harding College, Searcy, Arkansas

April 22-23, 1955

Friday, April 22

8:00 a.m. Registration.
10:30 a.m. First Business Meeting, Miss Ruth Armstrong presiding. Welcoming address by L. C. Sears, Dean of Harding College. Committee reports, etc.
12:15 p.m. Luncheon, Mayfair Hotel Coffee Shop.
2:00 p.m. Sectional Meetings: Biology, Chemistry, Geography, Geology, History and Government, Mathematics, Medicine, Physics, Sociology.

Junior Academy Exhibits.

3:30 p.m. Tour and Tea for Wives. Tea at the home of Dr. and Mrs. Joe Pryor.
4:00 p.m. Open House.
6:00 p.m. Dinner: Robertson's Rendezvous, Miss Ruth Armstrong Presiding. Presentation of Science Fair Awards by H. G. Dowling.
7:00 p.m. Annual Public Lecture: "The Forward Look in Science Education," by Bowen C. Dees, Program Director for Fellowships, National Science Foundation, Washington, D. C.
8:00 p.m. Organizational Meeting of the Arkansas Science Teachers Association.

The Bartered Bride, an opera by Smetana, presented by the Harding Music Department in cooperation with the Speech and Dramatic Department.

8:30 p.m. Junior Academy Exhibits.
Science Movies.
Saturday, April 23

8:30 a.m. Coffee and Doughnuts: Emerald Room of Ganus Student Center.
9:00 a.m. Joint Meeting of Senior and Junior Academies of Science. Selected papers from the National Science Talent Search.
10:30 a.m. Second Business Meeting. Committee reports, election of officers, treasurer's report, location of next year's meeting, installation of officers, adjournment by new president.
12:15 p.m. Informal Luncheon. College Cafeteria.
1:30 p.m. Field Trip arranged by Dr. Dwight Moore.

SECTIONAL PROGRAM

Biology
Chairman: W. W. Nedrow, Arkansas State College

B-1-1 A Plastic Mounting Technique for Herbaria. Albert Robinson, Arkansas State College.
B-2-2 Mass Increase During Photosynthesis. E. A. Spessard, Hendrix College.
B-3-3 Photoelectrons in Photosynthesis. Louis Galloway, Hendrix College.
B-4-4 Notes on Selected Mississippi Plants. G. T. Johnson, University of Arkansas.
B-6-6 Botanical Illustration Through the Ages. H. H. Iltis, University of Arkansas.
B-7-7 A Scheme of General Classification in the Phylum Chordata. Paul R. Harding, Jr., Hendrix College.
B-8-8 Evidence of Seasonal Change in the Bacterial Flora of Southern Soils. Peter H. Matisheck, University of Arkansas.
Sixteen species of Reptiles from the Harding Farm, Hobo Island Area. Mary Burton Dunlap, Harding College.

Chemistry

Chairman: E. A. Provine, Ouachita Baptist College

C-1-10 Recent Developments in High Energy Nuclear Reactions. Richard W. Fink, University of Arkansas.

C-2-11 An Investigation of the Decay Scheme of Cr$^{51}$. George W. Warren, University of Arkansas.

C-3-12 The Polar Properties of the Solvent and the Conductance of Electrolytes at Infinite Dilution. Edward S. Amis, University of Arkansas.

C-4-13 Ion Pair Formation in Low Dielectric Constant Solvents. P. H. Flaherty and K. H. Stern, University of Arkansas.

C-5-14 Assaying of Some Arkansas Oil Shales. John H. Foreman, University of Arkansas.

C-6-15 The Synthesis and Rearrangement of 2,2-diphenylcyclopropylcarbinol. F.M. Hornyak and H. M. Walborsky, University of Arkansas.

C-7-16 Differential Thermal Analysis of Perchlorates and Chlorates. Rommy Rodgers, Marvin T. Edminson, and Aubrey E. Harvey, University of Arkansas.

C-8-17 Fused Salt Electromotive Force Cells. Kurt Stern, University of Arkansas.

Geography

Chairman: O. Orland Maxfield, University of Arkansas

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G - 2-19 Plant Geography of Mexico. Albert Robinson, Jr., Arkansas State College.
G - 3-20 The Nature of Southern Regionalism. O. Orland Maxfield, University of Arkansas.
G - 4-21 Geography of the South as a Course. Group Discussion.

Geology
Chairman: Harlan B. Counts
Division of Water Supply, Little Rock

Gl-5-26 Heavy Mineral Study of the Atoka Formation from the Hamm Well Section 25 T9N R29W. F. B. Connelly, University of Arkansas.

History and Government
Chairman: G. G. Iggers, Philander Smith College

HG-1-28 Mississippi Politics During the Progressive Period. Charles G. Hamilton, College of the Ozarks.

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HG-4-31 St. John de Crevecoeur as a Diplomat, 1783-1790. James J. Hudson, University of Arkansas.


Mathematics

Chairman: Lyle J. Dixon, Arkansas State College

Ma-1-33 A Lesson from the History of Mathematics. B. H. Gundlach, University of Arkansas.

Ma-2-34 A Theorem on Powers of Functions. John Stallings, University of Arkansas.

Ma-3-35 What Can We Do for Our Good Students? Discussion led by H. Shniad, University of Arkansas.

Medicine

Chairman: Jacob Sacks, University of Arkansas

Me-1-36 Nutritional Aspects of Use of Artificial Non-Nutritive Sweeteners in Foods and Beverages. Paul L. Day, University of Arkansas School of Medicine.

Me-2-37 The Uptake of Iron-59 by Erythrocytes and Bone-Marrow of the Pigeon. Horace N. Marvin and I. Meschan. University of Arkansas School of Medicine.

Me-3-38 Absorption Droplets in the Renal Tubules of the Fish. O.C. Jaffee, University of Arkansas School of Medicine.

Me-4-39 Experimental Studies on the Prevention of Post-Operative Adhesions. James Langdon, University of Arkansas School of Medicine.

Me-5-40 Ectopic Pregnancy. J.O. Porter, University of Arkansas School of Medicine.
Me-6-41 The Respiratory and Circulatory Effects of 6-Chloroquinoxaline Methiodide. Joe Bates, Lloyd D. Seager, and Carl T. Bahner, University of Arkansas School of Medicine.

Me-7-42 The Pyrogenic and Respiratory Effects of Dicumarolin Experimental Animals. Max Cheney and Lloyd D. Seager, University of Arkansas School of Medicine.

Me-8-43 Sodium Salts and Acid-Base Balance in Edema. Samuel A. Corson and Elizabeth O'Leary Corson, University of Arkansas, School of Medicine.

Physics
Chairman: L. B. Ham, University of Arkansas

P-1-44 Effects of Mercury Switches in Condenser Discharge Circuits. H.M. Dumas, Jr., and Leo Paladino, University of Arkansas.


P-3-46 Direct Determination of Thermal Diffusivity Using Radial Unsteady Flow in a Ring-Shaped Specimen. R.C. McMillan, University of Arkansas.


P-5-48 The Ratio of L-Capture to K-Capture in Radioactive Decay. Beroll L. Robinson and Richard W. Fink, University of Arkansas.

P-6-49 Nuclear Isomersism in Tl₂O₄. M.K. Ramaswamy, University of Arkansas.

P-7-50 Scintillation Spectrometer Studies of the Gamma-Radiation of Ba₁₃₁. William C. Beggs, University of Arkansas.

P-8-51 Photographic Recording of Fast Events. The Use of Eastman Kodak's Tri-X Film with the Oscilloscope and the Electron Microscope. Ruth P. Rhoades, University of Arkansas.
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P-9-52 Specular and Diffuse Reflection of Films Deposited in Vacuum. Z. V. Harvalik, University of Arkansas.


**Sociology**

Chairman: Fred Voget, University of Arkansas


S-4-57 The Sociology of Reconstruction. John E. Steely, Southern Baptist College.

S-5-58 An Attempted Validation of the Strong Vocational Interest Test for Women. Donald Stewart, University of Arkansas.