

1993

Table of Contents

Academy Editors

Follow this and additional works at: <https://scholarworks.uark.edu/jaas>

Recommended Citation

Editors, Academy (1993) "Table of Contents," *Journal of the Arkansas Academy of Science*: Vol. 47 , Article 2.

Available at: <https://scholarworks.uark.edu/jaas/vol47/iss1/2>

This article is available for use under the Creative Commons license: Attribution-NoDerivatives 4.0 International (CC BY-ND 4.0). Users are able to read, download, copy, print, distribute, search, link to the full texts of these articles, or use them for any other lawful purpose, without asking prior permission from the publisher or the author.

This Front Matter is brought to you for free and open access by ScholarWorks@UARK. It has been accepted for inclusion in *Journal of the Arkansas Academy of Science* by an authorized editor of ScholarWorks@UARK. For more information, please contact scholar@uark.edu.

Secretary's Report and Financial Statement3
 Program10

FEATURE ARTICLES

DANIEL BERLEANT, R. RON GOFORTH and JUN YUAN: A Computer Model for Predicting AIDS Among Intravenous Drug Abusers15
 VERYL V. BOARD, CHARLOTTE ALLEN and ANDREA REEVES: Botanical Inventory of a Cypress-Tupelo Swamp20
 G. BURNSIDE, R.M. HAWK and P.C. McLEOD: A Multiple Sample Cryostat for the Determination of Superconductor Properties23
 CHRISTINE A. BYRD, CHARLES M. BYRD and W.J. BRAITHWAITE: Monte Carlo Detector Modeling and Display,
 Using the Cern Library26
 CHARLES M. BYRD, CHRISTINE A. BYRD and W.J. BRAITHWAITE: Time Projection Chamber's Efficiency, Obtained Using
 CERN's Geant Code29
 BETTY G. COCHRAN, EDMOND J. BACON and GEORGE L. HARP: Larval Chironomids of the St. Francis Sunken Lands
 in Northeast Arkansas31
 T.H. DHAYAGUDE, S.S. ANG and W.D. BROWN: Sputter Deposition and Thallination of Ti-Ba-Ca-Cu-O Superconducting Thin Films34
 JOHN L. HARRIS, PETE RUST, STEVEN W. CHORDAS, III and GEORGE L. HARP: Distribution and Population Structure
 of Freshwater Mussels (Unionidae) in Lake Chicot, Arkansas38
 WALTER DEAN HECKATHORN JR.: Fishes of Bayou Meto and Wattensaw Bayou, Two Lowland Streams in East Central Arkansas44
 ANTHONY HOLT and GEORGE L. HARP: Ichthyofauna of the Village Creek System54
 KELLY L. HOUSE, J.D. BRAGG, CLARK KUYPER, T. KENT THOMAS and RENN TURLISON: Environmental Analysis of the
 Caddo River and its Tributaries: Comparison of Water Quality During 1992 with 1974-7561
 Y. LIU, R.M. HAWK, R.K. PANDEY, A.H. FOWLER and S. RAMAPRASAD: *In Vivo* Spectroscopic and Imaging Studies of
 Photosensitizers in Photodynamic Therapy64
 R.L.G. LONG, L.T. ADAMS, J.D. CORLEY, A.A. KARLIN, B.L. PARSONS, M.G. KLEVE and D.J. HENLE: Stress Induced
 Protein Changes in Tall Fescue69
 J. SCOTT McCONNELL, ROSE M. McCONNELL and LLOYD R. HOSSNER: Ultraviolet Spectra of Acetic Acid, Glycine,
 and Glyphosate73
 WARREN G. MONTAGUE, CLAUDIA F. BAILEY, JOSEPH C. NEAL and DOUGLAS A. JAMES: Unhatched Eggs in Nests of
 Red-cockaded Woodpeckers77
 LINDA E. MOSS and GEORGE L. HARP: Effects of Domestic Wastewater Effluent on the Water Quality and Aquatic
 Macroinvertebrates in a Sharp County, Arkansas Stream82
 MITZI G. PARDEW, BETTY G. COCHRAN and WILLIAM R. POSEY II: Range Extension of the Paleback Darter86
 E.L. PIPER and C.P. WEST: The Role of Endophytes in Tall Fescue89
 R.M. RANADA, S.S. ANG and W.D. BROWN: Semi-Insulating Polysilicon Hetero- and Isotype Junctions on Silicon93
 DAVID L. ROETZEL and W.J. BRAITHWAITE: User-Interface Coding for the Cern/Geant Nuclear Physics Program98
 DAVID A. SAUGEY, V. RICK McDANIEL, DANIEL R. ENGLAND, MARSHA C. ROWE, LAURA R. CHANDLER-MOZISEK,
 BETTY G. COCHRAN: Arkansas Range Extensions of the Eastern Small-Footed Bat (*Myotis leibii*) and Northern Long-Eared
 Bat (*Myotis septentrionalis*) and Additional County Records for the Silver-Haired Bat (*Lasionycteris noctivagans*), Hoary Bat
 (*Lasiurus cinereus*), Southeastern Bat (*Myotis austroriparius*), and Rafinesque's Big-Eared Bat (*Plecotus rafinesquii*)102
 FRANK L. SETLIFF, NIKHIL G. SOMAN and ALAN D. TOLAND: Determination of Hammett Pyridine 3-Aza and 4-Aza
 Replacement Constants by ¹H NMR Studies of Amide Systems107
 KIM KELLY SIMPSON and LAWRENCE W. HINCK: The Prevalence of *Borrelia burgdorferi*, the Lyme Disease Spirochete,
 in Ticks and Rodents in Northeast Arkansas110
 ROY J. SMITH, JR., AURORA M. BALTAZAR and PAOLO NASTASI: Effect of Light, Nitrogen, and Water Management on
 Rice (*Oryza sativa*) Tolerance to Fenoxaprop116

GENERAL NOTES

KENNETH M. BALL and LEO CARSON DAVIS: Sinkhole Excavations in Peccary Cave, Newton County, Arkansas123
 VERYL V. BOARD, ANDREA REEVES and CHARLOTTE ALLEN: A Three Year Study on a Cypress-Tupelo Swamp in
 Independence County, Arkansas126
 VERYL V. BOARD, CHARLOTTE ALLEN and ANDREA REEVES: Ichthyofauna of a Cypress-Tupelo Swamp129
 JAMES R. BRAY and DANIEL L. MARSH: Additional Occurrences of the Bog Clubmosses in Southern Arkansas131
 THOMAS M. BUCHANAN, HENRY W. ROBISON and KEN SHIRLEY: New Distributional Records for Arkansas Surgeons133
 DAVID M. CHITTENDEN II: Rapid Reduction of Nitrate Ion in Rain Water134
 DAVID M. CHITTENDEN II: Suppression of the Oxidation of S(IV) in Rain Water137
 T. EVANS, F. YAMAZAKI and D.T.C. YANG: Microscale Preparation of Pyrocatechol: The Use of Sodium Percarbonate in
 the Dakin Reaction139
 DARLENE GENTLES and J.D. BRAGG: Quality of Shrimp Available to Consumers in Arkansas140
 HAENGSOON PARK, DAVID MINICK, M. DRAGANJAC, JOEY W. CRUMP, A.W. CORDES and ELIZABETH M. HOLT:
 The S-H Stretching Frequencies in Ruthenium Mercaptan Complexes and the Crystal and Molecular Structures of
 [CpRu(PPh₃)₂(S-C₄H₉SH)]BF₄·CH₂Cl₂ and [CpRu(PPh₃)₂(i-C₄H₉SH)]BF₄·1/2CH₂Cl₂142
 HENRY W. ROBISON and THOMAS M. BUCHANAN: Changes in the Nomenclature and Composition of the Arkansas Fish
 Fauna from 1988 to 1993145
 BRIAN A. SMITH and DANIEL L. MARSH: Occurrence of Hybrid Honey Locust (*Gleditsia x texana* Sarg.) in Southwest Arkansas146
 STANLEY E. TRAUTH, RICHARD D. SMITH, ABBEY CHENG and PATRICK DANIEL: Caudal Hedonic Glands in the
 Dark-sided Salamander, *Eurycea longicauda melanopleura* (Urodela: Plethodontidae)147
 STANLEY E. TRAUTH, BETTY G. COCHRAN, DAVID A. SAUGEY, WILLIAM R. POSEY and WESLEY A. STONE: Distribution of the
 Mole Salamander, *Ambystoma talpoideum* (Urodela: Ambystomatidae), in Arkansas with Notes on Paedomorphic Populations148
 STANLEY E. TRAUTH: Enlarged Posterior Maxillary Teeth in the Scarlet Snake, *Cemophora coccinea* (Serpentes: Colubridae), Using
 Scanning Electron Microscopy149

main
Q
11
.A78
v. 47
1993

