

# Journal of the Arkansas Academy of Science

---

Volume 31

Article 2

---

1977

## Table of Contents

Academy Editors

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

---

### Recommended Citation

Editors, Academy (1977) "Table of Contents," *Journal of the Arkansas Academy of Science*: Vol. 31, Article 2.

Available at: <https://scholarworks.uark.edu/jaas/vol31/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](mailto:scholar@uark.edu), [uarepos@uark.edu](mailto:uarepos@uark.edu).

## TABLE OF CONTENTS

Secretary's Report and Financial Statement	1
Program	6
Section Program	7
Arkansas Collegiate Academy of Science	10
ROBERT A. ANDERSEN and RICHARD L. MEYER: Scaled Chrysophyceae from Arkansas	12
D. A. BAEYENS and M. J. MEIER: Oxygen Toxicity in the Mammalian Liver	17
CLAUDIA F. BAILEY: The Yolk—Periblast Junction in <i>Fundulus heteroclitus</i>	19
STEVE M. BOUNDS, JOHN K. BEADLES and BILLY M. JOHNSON: Fishes of Randolph County, Arkansas	21
WILLIAM R. BOWEN and DAVID WILLIAMS: Development of Sporangia in <i>Polypodium aureum</i> var. <i>undulatum</i> : Initial Scanning Electron Microscopical Observations	26
JACK L. BRADFORD and DANIEL L. MARSH: Comparative Studies of the Witch Hazels <i>Hamamelis virginiana</i> and <i>H. vernalis</i>	29
JOHN G. CHAPMAN, JAMES P. THORNTON and DOY L. ZACHRY: Stratigraphy of the Lower Atoka Formation, Crawford County, Arkansas	32
G. THOMAS CLARK: Forest Communities of Crowley's Ridge	34
GEORGE C. FRAZIER and JOHN K. BEADLES: The Fishes of Sylamore Creek, Stone County, Arkansas	38
ROBERT F. FULMER and GEORGE L. HARP: The Fishes of Crowley's Ridge in Arkansas	42
GERALD S. GREER: The Effects of 2, 4, 5-Trichlorophenoxyacetic Acid On Swiss-Webster Mice	46
JEFFREY D. HALL and WALTER L. MANGER: Devonian Sandstone Lithostratigraphy, Northern Arkansas	47
GEORGE L. HARP and JOHN D. RICKETT: The Dragonflies (Anisoptera) of Arkansas	50
GARY A. HEIDT: Utilization of Nest Boxes by the Southern Flying Squirrel, <i>Glaucomys volans</i> , in Central Arkansas	55
B. MICHAEL JOHNSON and JOHN K. BEADLES: Fishes of The Eleven Point River Within Arkansas	58
RAJ V. KILAMBI, WALTER R. ROBISON and JAMES C. ADAMS: Growth, Mortality, Food Habits, and Fecundity of the Buffalo River Smallmouth Bass	62
RICHARD C. LEWIS: Role of Olfaction in "Taste-Aversion" to PTC in Mice	66
V. RICK McDANIEL and JAMES E. GARDNER: Cave Fauna of Arkansas: Vertebrate Taxa	68
DANIEL L. MARSH: The Distribution of Cane, <i>Arundinaria gigante</i> (Poaceae: Bambusoideae)	72
ANDREW J. MERKOWSKY, AMBUS J. HANDCOCK and SCOTT H. NEWTON: Attraction of Aerial Insects as a Fish Food Supplement	75
SCOTT H. NEWTON, ANDREW J. MERKOWSKY, AMBUS J. HANDCOCK and MAX V. MEISCH: Mosquitofish, <i>Gambusia affinis</i> (Baird and Girard) Production in Extensive Polyculture Systems	77
JERRY Y. NIEDERKORN: Immunization of Rats Against <i>Mesocestoides corti</i> (Cestoda) by Subcutaneous Vaccination of Living Tetrathyridia and by Passive Transfer with Serum	79
JAN PAYNE and GASTON GRIGGS: Time Course of PR of UV-Induced Chromosomal Aberrations and Lethal Damage in GI <i>Xenopus</i> Cells	81
ROBERT A. PIERCE and ROBERT T. KIRKWOOD: Evaluation of Plantings for Wildlife on a Power Line Right of Way in Southern Arkansas	83
RAMONA G. RICE and RICHARD L. MEYER: Algal Assemblage Distribution as Related to Seasonal Fluctuations of Selected Metal Concentrations	90
HENRY W. ROBISON: Distribution, Habitat Notes, and the Status of the Ironcolor Shiner, <i>Notropis chalybaeus</i> Cope, in Arkansas	92
MIKEL R. SHINN: Geologic Mapping from Aerial Photography in the Boston Mountains, Northwest Arkansas	95
DAVID A. SMITH: Significance of Major Northeast Trending Lineaments Observed on Landsat Imagery of Northwestern Arkansas	98
EDWIN B. SMITH: Notes on the Arkansas Saxifragaceae	100
STEVEN H. TERRY and DEBORAH E. COOGAN: Devonian-Mississippian Boundary, Batesville District, Northeast Arkansas	103
DOMINIC T. C. YANG, MICHAEL C. W. YANG, GEORGE W. KABALKA and J. H. CHANDLER: Catecholborane Reductions of Ditosylhydrozones to the Corresponding Methylene Derivatives	105
HENRY E. YOUNG: Epidermal Ridge Formation During Limb Regeneration in the Adult Salamander <i>Ambystoma annulatum</i>	107
HENRY E. YOUNG: Anomalies of Limb Regeneration in the Adult Salamander, <i>Ambystoma annulatum</i>	110
GENERAL NOTES	112
STEVE M. BOUNDS: Addendum to "Fishes of the Fourche River" in North-Central Arkansas	112
MAXINE B. CLARK: Remnant Prairie Plots of Benton County, Arkansas	112
PEGGY RAE DORRIS and FREDDY L. BURNSIDE, JR.: A Continuation of Spider Research in Arkansas: Ouachita Mountain Area	114
MINA AUSTIN MARSH: Natural Areas Preservation in Arkansas	116
LEO J. PAULISSEN: A Checklist of the Sphinx Moths of Arkansas	117
J. B. SHARP, N. GILBERT and R. A. DEHON: Mare Basalt Thickness in Sinus Aestuum and Sinus Medii	118
KENNETH F. STEELE and EDWARD C. ROBISON: Chemical Weathering of Lamprophyric Rock, Central Arkansas	119
GEORGE H. WAGNER and KENNETH F. STEELE: The Chemical Composition of Carbonatite in Conway and Perry Counties of Arkansas	121