

Journal of the Arkansas Academy of Science

Volume 71

Article 6

2017

Table of Contents

Academy Editors

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

Recommended Citation

Editors, Academy (2017) "Table of Contents," *Journal of the Arkansas Academy of Science*: Vol. 71, Article 6.

Available at: <https://scholarworks.uark.edu/jaas/vol71/iss1/6>

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, uarepos@uark.edu.

TABLE OF CONTENTS

FEATURE ARTICLES

M. HEMMATI, J. GRIFFITHS, AND M. BOWMAN: Wave Profile for Breakdown Waves with a Large Current Behind the Wave Front.....	1
R. TUMLISON, C.T. McALLISTER, H.W. ROBISON, M.B. CONNIOR, D.B. SASSE, D.G. CLOUTMAN, L.A. DURDEN, C.R. BURSEY, T.J. FAYTON, S. SCHRATZ, AND M. BUCKLEY: Vertebrate Natural History Notes from Arkansas, 2017	7
H.W. ROBISON, K.A. CRANDALL, AND C.T. McALLISTER: An Annotated Checklist of the Crayfishes (Decapoda: Cambaridae) of Arkansas	17
S.E. TRAUTH: Histology of Rathke's Glands in the Razor-backed Musk Turtle, <i>Sternotherus carinatus</i> (Chelonia: Kinosternidae), with Comments on Lamellar Bodies	35
H.W. ROBISON, C.T. McALLISTER AND R. TUMLISON: Distribution, Habitat, and Life History Aspects of the Shrimp Crayfish, <i>Faxonius lancifer</i> (Hagen) (Decapoda: Cambaridae) in Arkansas.....	41
B.A. HOGLAND, R.J. STORK, AND A.G. HUG: A Description of Variation in Fecundity Between Two Populations of Wolf Spider <i>Rabidosa rabida</i> in Searcy Arkansas Using Brood Size Measurements.....	47
P. RIVERA, R.J. STORK, AND A.G. HUG: A First Look into the Microbial Community of <i>Rabidosa rabida</i> , a Wolf Spider in Searcy, Arkansas.....	51
J. LABRECQUE AND F.D. HARDCastle: Bond Length and Bond Valence Relationships for Chromium Oxides, Chromium Sulfides, Molybdenum Oxides, and Molybdenum Sulfides.....	56
F. D. HARDCastle AND R. LYKINS: Bond Length and Bond Valence for Tungsten-Oxygen and Tungsten-Sulfur Bonds	59
C.T. McALLISTER, M.B. LEITE, AND R. TUMLISON: The Fishes of Chadron Creek, Dawes County, Nebraska.....	62
C.T. McALLISTER, L.A. DURDEN, H.W. ROBISON AND M.B. CONNIOR: The Fleas (Arthropoda: Insecta: Siphonaptera) of Arkansas	69
S. LANKFORD, D.R. THOMPSON AND S.C. RICKE: Simulating Foodborne Pathogens in Poultry Production and Processing to Defend Against Intentional Contamination	77
D.E. BOWLES, J.A. HINSEY, J.T CRIBBS, F.D. USREY, AND L.W. MORRISON: Long-term Aquatic Invertebrate Monitoring at Buffalo National River, Arkansas	83
S. SCHRATZ, V. ROLLAND, J. PHILLIPS, R. CROSSETT, D. RICHARDSON AND T. RISCH: Bat Occupancy Estimates and Species Richness at Cache River National Wildlife Refuge.....	97
D.J. RICHARDSON, C.I. HAMMOND, W.E. MOSER, A.J. HEATON, AND C.T. McALLISTER: Leech Parasitism of the Gulf Coast Box Turtle, <i>Terrapene carolina major</i> (Testudines: Emydidae) in Mississippi, USA.....	105
T.S. WAKEFIELD: Persistence of Urban Stream Syndrome Effects from Point Source and Non-Point Source Pollutants	109
C.J. MIDDEN, S.K. SASSER, AND J.L. GROVE: Ecology of Blanchard Springs Caverns, Ozark National Forest, Arkansas: 42 Years Later.....	118
B.P. GROOMS AND R.E. URBANEK: Local Scale Comparisons of Avian and Woody Vegetation Communities within Four Arkansas State Parks.....	123
T. YAMASHITA, J.M. RIGSBY, AND J. STOECKEL: Phylogeography and Vicariant Separation of Two River Darters, <i>Percina uranidea</i> and <i>Percina vigil</i> , from rivers that drain the North American Interior Highlands	131
C.T. McALLISTER, D. MOTRIUK-SMITH, R.S. SEVILLE, M.B. CONNIOR, S.E. TRAUTH, AND H.W. ROBISON: Coccidian Parasites (Apicomplexa: Eimeriidae) of Arkansas Herpetofauna: A Summary with Two New State Records	143
A.A. BURGAD, S.T. CLARK, M.E. FURR, A.N. LENARD, M.E. POLETT, C.D. ROBINSON, C.R. SHERWOOD, G.L. SPOONER, S.J. STOUGHTON, AND S.R. ADAMS: Longitudinal patterns in an Arkansas River Valley stream: an Application of the River Continuum Concept.....	153
S. McKIM, J. CAINS, J. CHICK, F. MCFARLIN, AND A. POTRA: Lithologic Stratigraphic Position, Sequence and Diagenetic History, Lower Mississippian Tripolitic Chert, Northern Arkansas and Southern Missouri	165
J. CHICK, J. CAINS, F. MCFARLIN, S. McKIM, AND A. POTRA: Hydrothermally Emplaced, Lower Mississippian, Tripolitic Chert and its Possible Relationship to the Tri-State Lead-Zinc Mining District.....	169
E.C. BELLO: Sequence Stratigraphic and Tectono-Stratigraphic Successions, Ozark Shelf, Tri-State Region, Southern Midcontinent	173
M.R. ISLAM, M.K. AHMED, H.A. BEGUM, AND E.N. ALLOUCHE: Restrained Shrinkage of Fly Ash Based Geopolymer Concrete and Analysis of Long Term Shrinkage Prediction Models.....	180
S.D. LONGING, L.A. MACK AND B.E. HAGGARD: Bioassessment of Four Karst Springs at Hobbs State Park Conservation Area with a Focus on Diving Beetle (Dytiscidae: Hydroporinae) Species of Concern	187
M. KHAN, T. ASHURI, M. COLLINS, G. BIRKEMEIER, AND E. ALI: An Acoustic-Based Approach for Condition Monitoring of Pipes	195
S.W. CHORDAS III AND R. TUMLISON: Sex-ratio of Miridae (Hemiptera) taken via UV light-traps in Arkansas, USA	200

GENERAL NOTES

D.J. RICHARDSON, A. LEVEILLE, A.V. BELSARE, H.S. AL-WARID, AND M.E. GOMPPER: Geographic Distribution Records of <i>Macracanthorhynchus ingens</i> (Archiacanthocephala: Oligacanthorhynchidae) from the Raccoon, <i>Procyon lotor</i> in North America.....	203
S. OSBORNE, D.R. LEASURE, S. HUANG, AND R. KANNAN: Central Nests Are Heavier and Have Larger Clutches Than Peripheral Nests in Cliff Swallow (<i>Petrochelidon Pyrrhonota</i>) Colonies	206
K.G. SMITH, J.C. NEAL, AND J.C. REYNOLDS: Sun-bathing by Greater Roadrunners – A Neglected Aspect of Their Range Extension	209

M.B. CONNIOR, L.A. DURDEN, C.T. McALLISTER, R.S. SEVILLE, C.R. BURSEY, AND H.W. ROBISON: New Records of Parasites (Apicomplexa, Nematoda, Acari, Anoplura) from Rodents in Arkansas.....	211
M.B. CONNIOR, R. TUMLISON, D.P. HOLLAND, J.L. HUNT, L.A. DURDEN, AND D.B. SASSE: Survey of Rodents within Arkansas Game and Fish Commission Wildlife Management Areas	215
D.B. SASSE: Distribution of the Eastern Spotted Skunk, <i>Spilogale putorius</i> , in the Early Twentieth Century	219
J. SINGLETON, J.J. DALY SR, AND K WAGNER: Anatomical Distribution of <i>Clinostomum</i> Metacercariae in the Tissues of Pond-Raised Channel Catfish (<i>Ictalurus punctatus</i>).....	221
S.W. CHORDAS III: Literature Record Checklist of True Bugs (Hemiptera) for Arkansas, U.S.A., as of 2018.....	224
Business meeting report (Secretary's and Treasurer's Report)	232
Keynote Address and Meeting Program.....	243
Journal Acknowledgments and Editorial Board.....	253
Instructions to Authors	254