

TABLE OF CONTENTS

Business meeting report (Secretary’s and Treasurer’s Report)	5
Acknowledgment of the major sponsors of the Academy:	15
Arkansas Natural Heritage Commission; Ouachita National Forest	
A Tribute to Dr. Collis Geren	16
Keynote Speaker and Meeting Program	18
 FEATURE ARTICLES	
J.E. AYCOCK, AND C.G. SIMS: Shorebird Foraging Habitat in Southeast Arkansas	25
W.J. BROCKWAY AND R.L. JOHNSON: Introduction of Florida Bass Alleles into Largemouth Bass Inhabiting Northeast Arkansas Stream Systems.....	29
B.N. FONG, K.V. NEWHOUSE, M.J. HUSS, E. ROBERTS, J.T. KENNON, AND H. ALI: Investigating the Effect of Stratospheric Radiation on Seed Germination and Growth.....	36
M.P. GAJEWSKI, H.J. CRANE, AND M.W. NELSON: Development of Photosensitized Water Splitting Catalysts	41
C. HARRIS AND F.D. HARDCASTLE: Bond Length – Bond Valence Relationships for Carbon – Carbon and Carbon – Oxygen Bonds	45
M. HEMMATI, R. HORN, W.P. CHILDS AND A.K. MEREDITH: Wave Profile for Anti-force Waves with Maximum Possible Currents.....	54
M.E. KENNON AND J.L. BOULDIN: Aquatic Effects of a Localized Oil Spill on Lake Conway, AR and Its Tributaries.....	60
M.K. KILMER, N. POE, S. CHAPPELL AND J.L. BOULDIN: Natural Nutrient Sources in the Cache River Watershed, Arkansas	68
C.T. McALLISTER, R.S. SEVILLE, D. MOTRIUK-SMITH, C. HUDSON, M.B. CONNIOR AND H.W. ROBISON: Coccidia (Apicomplexa: Eimeriidae) of Three-toed Box Turtles, <i>Terrapene carolina triunguis</i> (Reptilia: Testudines), from Arkansas and Oklahoma	74
H.W. ROBISON AND C.T. McALLISTER: The Arkansas Endemic Flora and Fauna: An Update with 13 Additional Species.....	78
K.G. SMITH, J.C. NEAL, AND M.A. YOUNG: Red Crossbill Invasion of Northwestern Arkansas during 2012-2013	83
M.N. STRASSER AND R.P. SELVAM: Selection of a Viscous Vortex Tangential Velocity Profile for Application in Complex Flow Dynamics.....	88
C.S. THIGPEN, S.E. TRAUTH, AND T.D. MARSICO: A Case of Frugivory in a Green Treefrog (<i>Hyla cinerea</i>) from Northeastern Arkansas	98
S. E. TRAUTH, C. S. THIGPEN, AND M. B. CONNIOR: Testicular Histology and Sperm Morphometrics of the Bird-voiced Treefrog, <i>Hyla avivoca</i> (Anura: Hylidae), from Arkansas.....	101
R. TUMLISON, M.B. CONNIOR, H.W. ROBISON, C.T. McALLISTER, L.A. DURDEN, D.B. SASSE, AND D.A. SAUGEY: Vertebrate Natural History Notes from Arkansas, 2015	106
K.L. WEIGAND, J.L. RENO, AND B.M. ROWLEY: Low-level Mercury Causes Inappropriate Activation in T and B Lymphocytes in the Absence of Antigen Stimulation.....	116
S. WILEY, R. KANNAN, D.A. JAMES AND A. DESHWAL: Stopover Foraging Ecology of Swainson’s Thrushes (<i>Catharus ustulatus</i>) During Spring Passage Migration Through Arkansas.....	124
 GENERAL NOTES	
S.W. CHORDAS III AND C.T. McALLISTER: The Eastern Boxelder Bug, <i>Boisea trivittata</i> (Hemiptera: Rhopalidae): Confirmation in Arkansas.....	130
C.T. McALLISTER, M.A. BARGER, T.J. FAYTON, M.B. CONNIOR, D.A. NEELY AND H.W. ROBISON: Acanthocephalan Parasites of Select Fishes (Catostomidae, Centrarchidae, Cyprinidae, Ictaluridae), from the White River Drainage, Arkansas.....	132
C.T. McALLISTER, C.R. BURSEY, T.J. FAYTON, W.F. FONT, H.W. ROBISON, M.B. CONNIOR AND D.G. CLOUTMAN: Helminth Parasites of the Blackspotted Topminnow, <i>Fundulus olivaceus</i> (Cyprinodontiformes: Fundulidae), from the Interior Highlands of Arkansas.....	135
C.T. McALLISTER, W.F. FONT AND H.W. ROBISON: <i>Crepidostomum cornutum</i> (Digenea: Allocreadiidae) from Midget Crayfish, <i>Orconectes (Procericambarus) nana</i> (Decapoda: Cambaridae), from Northwestern Arkansas.....	139
C.T. McALLISTER, R. TUMLISON AND H.W. ROBISON: A Noteworthy Geographic Distributional Record for the Milliped, <i>Apheloria virginensis reducta</i> (Polydesmida: Xystodesmidae), from the Arkansas Delta	142
C.S. THIGPEN, S.E. TRAUTH, L.I. BAGWELL, J.D. KONVALINA, AND S.A. SCHRATZ: New County Record of Black-Spot Disease in Arkansas.....	145
C.S. THIGPEN, S.E. TRAUTH, L.I. BAGWELL, J.D. KONVALINA, S.A. SCHRATZ, C.T. McALLISTER, W.E. MOSER, D.J. RICHARDSON, AND H.W. ROBISON: New Host and County Records of the Fish Leech <i>Cystobranchnus klemmi</i> (Hirudinida: Piscicolidae) in Arkansas.....	147
R. TUMLISON AND M. BARBEE: Recent History of Mountain Lion (<i>Puma concolor</i>) Observations in Arkansas, with Notes on the Individual Killed in Bradley County, Arkansas in 2014.....	149
R. TUMLISON AND D.B. SASSE: New Records and Observations of the American Badger (<i>Taxidea taxus</i>) in Arkansas.....	153
R. TUMLISON AND A. SURF: Atypical head markings of the Ouachita Map turtle (<i>Graptemys ouachitensis</i>) in the upper Ouachita River of Arkansas.....	157
Journal Acknowledgments	161
Instructions to Authors	162