

PROCEEDINGS OF THE OKLAHOMA ACADEMY OF SCIENCE

Volume 101

CONTENTS

REPORTS

A. Applied Ecology & Conservation

1 Human Impacts on the Prevalence of the Amphibian Infectious Diseases, *Batrachochytrium dendrobatidis* and Ranavirus, in Oklahoma, USA

Jessa L. Watters, Spencer E. Hall, & Cameron D. Siler

14 Fish Communities, Species of Greatest Conservation Need, and Potential Protected Areas in Southeastern Oklahoma, 2014–2016

Zachery D. Zbinden, Aaron D. Geheber, William J. Matthews, & Edie Marsh-Matthews

33 Updated Checklist of Amphibians and Reptiles at the University of Oklahoma Biological Station at Lake Texoma, Oklahoma

Jessa L. Watters, Geoffrey C. Carpenter, & Cameron D. Siler

43 Response of a Soil Invertebrate Community to a Brief Flood Event

Erica A. Corbett

53 Hooking Mortality Rates and Factors Influencing Mortality of Alligator Gar Caught Using Two Hook-and-Line Methods

Richard A. Snow and Michael J. Porta

67 Examination of the Current State Record River Carpsucker in Oklahoma

Jory B. Bartnicki and Richard A. Snow

72 Validation and Timing of Annulus Formation in Sagittal Otoliths of Alligator Gar

Jory B. Bartnicki, Richard A. Snow, & Michael J. Porta

77 Scanning Electron Microscopy of the Gonopods of the Milliped, *Thrinaxoria lampra* (Diplopoda: Polydesmida: Xystodesmidae)

Chris T. McAllister, Stanley E. Trauth, & Henry W. Robison

80 An Annotated Checklist of the Millipedes (Arthropoda: Diplopoda) of Oklahoma

Chris T. McAllister & Henry W. Robison

93 Scanning Electron Microscopy of the Gonopods of the Milliped, *Eurymerodesmus dubius* (Diplopoda: Polydesmida: Xystodesmidae)

Chris T. McAllister, Stanley E. Trauth, & Henry W. Robison

96 Tetrathyridia of *Mesocestoides* sp. (Cestoda: Cyclophyllidea: Mesocestoididae) from Pickerel Frog, *Rana palustris* (Anura: Ranidae), with a Summary of Hosts from Oklahoma

Chris T. McAllister, Stanley E. Trauth, & Henry W. Robison

101 Noteworthy Records of Helminth Parasites (Monogenea, Trematoda, Cestoda, Nematoda, Acanthocephala) from Select Herpetofauna (Anura, Testudines, Ophidia) from McCurtain County, Oklahoma

Chris T. McAllister, Charles R. Bursey, & Henry W. Robison

B. Materials Science

109 Evaluation of the Feasibility of Phosphorene for Electronic DNA Sequencing Using Density Functional Theory Calculations

Matthew B. Henry, Mukesh Tumbapo, Kolby Wilson, & Benjamin O. Tayo

C. Physics

115 Modern Perspectives on Einstein's General Theory of Relativity

James H. McNeill, Robert A. Doti, & James E. Bidlack

138 2021 Technical Meeting Abstracts

ACADEMIC AFFAIRS

152 Officers and Section Chairs (2021)

153 Financial Statements (2020)

155 Financial Statements (2019)

157 Membership Application Form

158 Editorial Policies and Practices

159 Instructions for Authors