## **JOURNAL**

# Tennessee Academy of Science

VOLUME 84 NUMBER 4

#### CONTENTS

The Phylogenetic Position of Eurycea lucifuga, the Cave Salamander, and the Evolution of Cave-Adapted Species within Eurycea. Andrew J. Harlan and Kirk S. Zigler  Amphibians and Reptiles of Fort Donelson National Battlefield, Stewart County, Tennessee. Jon M. Davenport and A. Floyd Scott.	77
	83
Manuscript Preparation Guidelines for ITAS Editorial Staff	90

OCTOBER 2009

### **Tennessee Academy of Science**

#### **EXECUTIVE COMMITTEE 2009**

President

Dr. M. Gore Ervin

Department of Biology, Box 60 Middle Tennessee State University Murfreesboro, TN 37132

Office Phone: 615-898-2045 FAX: 615-898-5093 Email: mervin@mtsu.edu

Past-president

Dr. Cindi Smith-Walters

Department of Biology, Box 60 Middle Tennessee State University

Murfreesboro, TN 37132 Office Phone: 615-898-5449 Home Phone: 615-848-0327

FAX: 615-217-7865 Email: csmithwa@mtsu.edu President-elect

Dr. Michael A. Gibson

Department of Geol., Geog., and **Physics** 

Univ. of Tennessee, Martin Martin, TN 38238

Email: mgibson@utm.edu

Ms. Teresa Fulcher

Department of Natural and Behavioral Sciences

Pellissippi State Technical Community College 10915 Hardin Valley Road

Knoxville, TN 37933 Office Phone: 865-539-7048

Home Phone: 865-457-4065 Email: tfulcher@pstcc.edu

Treasurer

Dr. C. Steven Murphree

Department of Biology

Belmont University

1900 Belmont Boulevard

Nashville, Tennessee 37212-3758 Office Phone: 615-460-6221

Email: murphrees@mail.belmont.edu

Managing Editor

Dr. Stephen J. Stedman

Department of English and Communications, Box 5053

Tennessee Technological University

Cookeville, TN 38505 Office Phone: 931-372-3763

Email: sstedman@tntech.edu

Department of Education Liaison

Dr. Linda Jordan

8th Floor, Gateway Plaza 710 James Robertson Parkway

Nashville, TN 37243-0379 Office Phone: 615-532-6285

Home Phone: 615-790-4981 Fax: 615-532-8536

Email: Linda.K.Jordan@state.tn.us

Director, Junior Academy

Dr. Jack Rhoton

East Tennessee State University,

Box 70684

Johnson City, TN 37614-0684

Office Phone: 423-439-7589

Home Phone: 423-323-5924

Fax: 423-439-8362

Email: rhotonj@etsu.edu

Director, Collegiate Division

Dr. Fred Matthews

Department of Chemistry Austin Peay State University

Clarksville, TN 37044

Office Phone: 931-221-7622

Fax: 931-221-6261

Email: matthewsf@apsu.edu website: www.apsu.edu/matthewsf Director, Electronic Communication Dr. James (Jim) Howard

Department of Chemistry, Box 410 Middle Tennessee State University Murfreesboro, TN 37132

Office Phone: 615-898-2079

Home Phone: 615-890-0142 Email: jhoward@mtsu.edu

Director, Visiting Scientist Program Dr. Michael L. Daley

Department of Electrical Engineering The University of Memphis Memphis, TN 38152

Office Phone: 901-678-3254 Fax: 901-678-5469 Email: mdaley@memphis.edu Member-at-large, 2007-2009

William H. Andrews

Engineering Science Technology Div. Oak Ridge National Laboratory

Oak Ridge, TN 37831

Member-at-large, 2008-2010 Mr. Bryan Kent Wallace

Director, Physics Laboratories Department of Physics 1000 Seventeenth Avenue North

Email: bwallace@fisk.edu

Member-at-large, 2009-2011

Dr. Gilbert Pitts

Department of Biology Austin Peay State University P.O. Box 4718

Clarksville, TN 37044 Fisk University Nashville, TN 37208 Phone: 931-221-7777 Fax: 931-221-6323 Office Phone: 615-329-8623 Fax: 615-329-8634 Email: pittsg@apsu.edu

The TENNESSEE ACADEMY OF SCIENCE was founded in 1912 at Nashville, Tennessee. Membership is open to all teachers and professors of science, research workers in science both in educational institutions and industrial establishments, and all others who are interested in some phase of science. Annual dues for various categories of membership follow: student member — \$10; emeritus member—\$10; regular member — \$40; sustaining member — \$50; supporting member — \$100; life member — \$400 (single payment). Applications for membership should be addressed to the Treasurer.

The Journal of the Tennessee Academy of Science (ISSB 0040313X) is published by the Tennessee Academy of Science, Department of Biology, Belmont University, 1900 Belmont Boulevard, Nashville, TN 37212-3757, for all members not in arrears for dues. Back issues, if available, are \$10 per copy. Whole sets of back issues on microfilm are available from AMS Press, Inc., 56 E. 13th St., New York. NY 10003. Postage paid at Nashville, TN, and at other mailing offices. Send address change to the following: Journal of the Tennessee Academy of Science, c/o Dr. Steven Murphree, Department of Biology, Belmont University, 1900 Belmont Boulevard, Nashville, TN

This journal is abstracted in Biological Abstracts, Chemical Abstracts, and the Zoological Record, and is indexed by Science Citation Index and Agricola Citations.