

# JOURNAL OF THE Tennessee Academy of Science

---

---

VOLUME 79

NUMBER 1

---

---

## CONTENTS

|  |    |
|--|----|
| Synopsis and Identification of North American Hairworms (Gordioidea: Nematomorpha). <i>George Poinar Jr. and Clay M. Chandler</i> .....                    | 1  |
| ✓ A Tennessee Conundrum: The Gopher Frog at Arnold Air Force Base. <i>Brian T. Miller and John W. Lamb</i> .....   | 8  |
| Assessment of Species for Landscape Management of Archaeological Sites in Middle Tennessee. <i>LinnAnn Welch, Jeffrey L. Walck, and Kurt E. Blum</i> ..... | 13 |
| Books and New Media .....  | 18 |
| Announcements .....  | 19 |

---

---

JANUARY 2004

# Tennessee Academy of Science

## EXECUTIVE COMMITTEE

### *President*

J. Michael Redding  
Dept. of Biology  
Tennessee Tech. Univ.  
Cookeville, TN 38505

### *Past-president*

Karen Kendall-Fite  
Math and Science Dept.  
Columbia State Comm. College  
Columbia, TN 38402-1315

### *President-elect*

Stephen M. Wright  
Department of Biology, Box 60  
Middle Tennessee State Univ.  
Murfreesboro, TN 37132

### *Secretary*

Sarah H. Swain  
Dept. of Biology, Box 60  
Middle Tennessee State Univ.  
Murfreesboro, TN 37132

### *Treasurer*

Steve Murphree  
Dept. of Biology  
Belmont University  
Nashville, TN 37212

### *Managing Editor*

M. Gore Ervin  
Dept. of Biology, Box 60  
Middle Tennessee State Univ.  
Murfreesboro, TN 37132

### *Meeting Coordinator*

J. Michael Redding  
Dept. of Biology  
Tennessee Tech. Univ.  
Cookeville, TN 38505

### *Dept. of Education Liaison*

Linda Jordan  
8th Floor, Gateway Plaza  
710 James Robertson Pkwy.  
Nashville, TN 37243-0379

### *Director, Junior Academy*

Jack Rhoton  
East Tennessee State Univ.  
Box 70684  
Johnson City, TN 37614-0684

### *Director, Collegiate Division*

Fred Matthews  
Dept. of Chemistry  
Austin Peay State Univ.  
Clarksville, TN 37044

### *Director, Electronic Communication*

James Howard  
Dept. of Chemistry  
Middle Tennessee State Univ.  
Murfreesboro, TN 37132

### *Director, Visiting Scientist Prog.*

Michael L. Daley  
Dept. of Electrical Engineering  
The Univ. of Memphis  
Memphis, TN 38152

### *Chair, Education*

Cindi Smith-Walters  
Dept. of Biology, Box 60  
Middle Tennessee State Univ.  
Murfreesboro, TN 37132

### *Chair, Financial Oversight*

Andrew Slinger  
Dept. of Biological Sciences  
Univ. of Tennessee, Martin  
Martin, TN 38238

### *Chair, Industry and Government*

### *Chair, Long Range Planning*

George Murphy  
Dept. of Biology, Box 60  
Middle Tennessee State Univ.  
Murfreesboro, TN 37132

### *Chair, Publicity*

Mandy Carter Lowe  
Math and Science Dept.  
Columbia State Comm. College  
Columbia, TN 38402-1315

### *2002-2004 Member-at-large*

Stewart Elston  
Dept. of Physics  
Univ. of Tennessee, Knoxville  
Knoxville, TN 37916

### *2003-2005 Member-at-large*

Michael Gibson  
Dept. of Geol., Geog., Physics  
Univ. of Tennessee, Martin  
Martin, TN 38238

### *2004-2006 Member-at-large*

Al Hazari  
Dept. of Chemistry  
Univ. of Tennessee, Knoxville  
Knoxville, TN 37916

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 are \$20 for members and fellows, except students and emeritus members whose dues are \$10. Life membership is \$200. Applications for membership should be addressed to the Treasurer.

Affiliated societies of the Academy are: American Association for the Advancement of Science (AAAS); Barnard Astronomical Society, Clarence T. Jones Memorial Observatory, Chattanooga; Barnard-Seyfert Astronomical Society, Nashville; National Association of Academies of Science; Tennessee Association of Science Department Chairs; Tennessee Junior Science and Humanities Symposium; Tennessee Entomological Society; Tennessee Ornithological Society, Nashville; Tennessee Psychological Association; and Tennessee Science Teachers' Association.

The JOURNAL OF THE TENNESSEE ACADEMY OF SCIENCE (ISSN 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. The subscription rate is \$20 per year. Single copies of recent issues are \$10. Whole sets of back issues on microfilm are available from AMS Press, Inc., 56 E. 13th Street, New York, NY 10003. Postage paid at: Nashville, TN, and at additional mailing offices. Send address changes to: JOURNAL OF THE TENNESSEE ACADEMY OF SCIENCE, C/O DR. STEVEN MURPHREE, DEPARTMENT OF BIOLOGY, BELMONT UNIVERSITY, 1900 BELMONT BOULEVARD, NASHVILLE, TN 37212-3757.

This Journal is abstracted by Biological Abstracts, Chemical Abstracts, and Nuclear Abstracts, and is indexed by Science Citation Index and Agricola Citations.