## **JOURNAL**

# OF THE Tennessee Academy of Science

VOLUME 75 NUMBER 1–2

#### **CONTENTS**

President of the Tennessee Academy of Science for 2000	1
Proceedings of the Tennessee Academy of Science for 1999	3
Executive Committee Meeting, April	3
Executive Committee Meeting, November	6
Tennessee Academy of Science 109th Annual Meeting	12
Host of the 109th Meeting: The University of Tennessee, Memphis	14
Tennessee Academy of Science Awards: 1999	15
Abstracts of Papers Presented at the 109th Annual Meeting	18
New Members of the Tennessee Academy of Science: 1999 Membership Year	37
Medicinal Plant Folklore and the Ayurvedic System of Medicine in the	
Indo-Tibetan Outer Himalayas. G. K. Sharma	38
Diet of the Southeastern Shrew (Sorex longirostris) in Tennessee. Leslie N.	
Carraway, B. J. Verts, John O. Whitaker Jr., and Michael L. Kennedy	42
Assessment of Scent-Station Surveys and Spotlight Counts for Monitoring	
Relative Abundance of Two Mustelids. Aaron W. Reed	44
Books and New Media	48
Announcements	49

### **Tennessee Academy of Science**

#### **EXECUTIVE COMMITTEE**

President
David J. Wilson
Eckenfelder, Inc.
227 French Landing Drive
Nashville, TN 37228

Past-president
C. Steven Murphree
Dept. of Biology
Belmont Univ.
1900 Belmont Blvd.
Nashville, TN 37212-3757

President-elect
Martin Stewart
Dept. of Chemistry
Middle Tennessee State Univ.
Murfreesboro, TN 37132

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

Treasurer
John W. Harris
Dept. of Biology
Tennessee Tech. Univ.
Cookeville, TN 38505

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 5th Floor, Andrew Johnson 710 James Robertson Pkw Nashville, TN 37243-0379

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

Director, Collegiate Division Richard Raridon 111 Columbia Drive Oak Ridge, TN 37830 Director, Electronic Communication
David H. Kesler
Dept. of Biology
Rhodes College
Memphis, TN 38112

Director, Visiting Scientist Prog.
Michael L. Daley
Dept. of Electrical Engineering
The Univ. of Memphis
Memphis, TN 38152

Chair, Education
Bernard Benson
Teacher Preparation Academy
Univ. of Tennessee, Chattanooga
Chattanooga, TN 37403

Chair, Financial Oversight
Andrew Sliger
Dept. of Biological Sciences
Univ. of Tennessee, Martin
Martin, TN 38238

Chair, Industry and Government
Ted Sadler Lundy
Center for Manufacturing Res.
Tennessee Tech. Univ.
Cookeville, TN 38505

Chair, Long Range Planning
George Murphy
Dept. of Biology
Middle Tennessee State Univ.
Murfreesboro, TN 37132

Chair, Publicity
Teresa Fulcher
Natural Science
Pellissippi State Tech. College
Knoxville, TN 37403

1998–2000 Member-at-large
Martin Stewart
Dept. of Chemistry
Middle Tennessee State Univ.
Murfreesboro, TN 37132

1999–2001 Member-at-large
Karen Kendall-Fite
Math and Science Dept.
Columbia State Comm. College
Columbia, TN 38402-1315

2000–2002 Member-at-large
David T. Pitts
Dept. of Biological Sciences
Univ. of Tennessee, Martin
Martin, TN 38238

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 Humanties 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 0040-313X) is published by the Tennessee Academy of Science, Department of Biology, Tennessee Technological University, 900 N Dixie Avenue, Cookeville, TN 38505, 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: Cookeville, TN, and at additional mailing offices. Send address changes to: JOURNAL OF THE TENNESSEE ACADEMY OF SCIENCE, % DR. JOHN W. HARRIS, DEPARTMENT OF BIOLOGY, TENNESSEE TECHNOLOGICAL UNIVERSITY, P.O. BOX 5063, COOKEVILLE, TN 38505.

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