

JOURNAL OF THE Tennessee Academy of Science

VOLUME LXVIII

NUMBER 2

CONTENTS

President of the Tennessee Academy of Science for 1993.....	33
Proceedings of the Tennessee Academy of Science 1992.....	34
Executive Committee Meeting, April.....	34
Executive Committee Meeting, November.....	36
Tennessee Academy of Science 102nd Annual Meeting.....	39
Abstracts of Papers Presented at the 102nd Annual Meeting.....	41
Aquatic Macrophytes in Reelfoot Lake After the Release of Grass Carp. <i>J. Wesley Henson and Wilburn A. Sliger</i>	58
First Record of the Brazilian Free-tailed Bat (<i>Tadarida brasiliensis</i>) from Tennessee. <i>David H. Snyder</i>	63
Status of the Dirty Darter, <i>Etheostoma olivaceum</i> , and Bluemask Darter, <i>Etheostoma (Doration)</i> sp., with Notes on Fishes of the Caney Fork River System, Tennessee. <i>Steven R. Layman,</i> <i>Andrew M. Simons, and Robert M. Wood</i>	65
Tennessee Academy of Science New Members 1993.....	71
Tennessee Academy of Science Outstanding Science Teachers Awards.....	72

APRIL 1993

Tennessee Academy of Science

EXECUTIVE COMMITTEE

<i>President</i> George Murphy Dept. of Biology Middle Tennessee State Univ. Murfreesboro, TN 37132	<i>Past-president</i> Michael L. Kennedy Dept. of Biology Memphis State Univ. Memphis, TN 38152	<i>President-elect</i> Wilburn A. Sliger Dept. of Biological Sciences Univ. of Tennessee, Martin Martin, TN 38238-5014	<i>Secretary</i> Sarah H. Swain Dept. of Biology Middle Tennessee State Univ. Murfreesboro, TN 37132
<i>Treasurer</i> John W. Harris Dept. of Biology Tennessee Tech. Univ. Cookeville, TN 38505	<i>Tennessee Dept. of Education</i> State Science Supervisor Tennessee Dept. of Education Cordell Hull Building Nashville, TN 37243-0379	<i>1991-1993 Member-at-large</i> D. M. S. Bhatia Dept. of Geology Austin Peay State Univ. Clarksville, TN 37044	<i>1992-1994 Member-at-large</i> John R. Freeman Dept. of Biology Univ. of Tennessee, Chattanooga Chattanooga, TN 37403
<i>1993-1995 Member-at-large</i> David N. Lumsden Dept. of Geological Sci. Memphis State Univ. Memphis, TN 38152	<i>Meeting Coordinator</i> Betty Davis Univ. School, Box 21460A East Tennessee State Univ. Johnson City, TN 37614	<i>Director, Junior Academy</i> Jack Rhoton East Tennessee State Univ. Box 23020A Johnson City, TN 37614	<i>Director, Collegiate Division</i> Richard Raridon 111 Columbia Drive Oak Ridge, TN 37830
	<i>Director, Visiting Sci. Program</i> Wayne Stevenson Univ. Programs Division Oak Ridge Associated Labs. Oak Ridge, TN 37830	<i>Editor</i> Phyllis K. Kennedy Dept. of Biology Memphis State Univ. Memphis, TN 38152	

EDITORIAL BOARD

<i>Editor</i> Phyllis K. Kennedy Dept. of Biology Memphis State Univ. Memphis, TN 38152	<i>Botany</i> James D. Caponetti Dept. of Botany Univ. of Tennessee Knoxville, TN 37916	<i>Chemistry</i> Martin V. Stewart Dept. of Chemistry and Physics Middle Tennessee State Univ. Murfreesboro, TN 37132	<i>Engineering</i> Michael Daley Dept. of Electrical Engineering Memphis State Univ. Memphis, TN 38152
<i>Geology and Geography</i> Stuart W. Maher 505 E. Broadway Kenwill, Inc. Maryville, TN 37801	<i>History of Science</i> Phillip J. Lorenz Dept. of Physics Univ. of the South Sewanee, TN 37375	<i>Math and Computer Science</i> Kirk Menser Dept. of Math. and Computer Sci. Austin Peay State Univ. Clarksville, TN 37044	<i>Medical Sciences</i> Robert O'Bannon Dept. of Biology Lee College Cleveland, TN 37311
<i>Physics and Astronomy</i> Martha Weller Dept. of Chemistry and Physics Middle Tennessee State Univ. Murfreesboro, TN 37132	<i>Science and Math Teachers</i> Sarah F. Barlow Dept. of Biology Middle Tennessee State Univ. Murfreesboro, TN 37132	<i>Zoology I</i> David H. Kesler Dept. of Biology Rhodes College 2000 North Parkway Memphis, TN 38112	<i>Zoology II</i> Phyllis K. Kennedy Dept. of Biology Memphis State Univ. Memphis, TN 38152

The TENNESSEE ACADEMY OF SCIENCE was founded in 1912 at Nashville, Tennessee. Membership 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 Ornithological Society, Nashville; Tennessee Psychological Association; and Tennessee Science Teachers' Association.

The JOURNAL OF THE TENNESSEE ACADEMY OF SCIENCE (ISSN 0040313X) is published quarterly at the Department of Biology, Memphis State University, Memphis, TN 38152, by the Tennessee Academy of Science 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. Send address changes to Tennessee Academy of Science, c/o Dr. Phyllis K. Kennedy, Department of Biology, Memphis State University, Memphis, TN 38152.

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