

JOURNAL OF THE TENNESSEE ACADEMY OF SCIENCE

MANAGING EDITOR

Stephen J. Stedman
Department of English and Communications
Box 5053
Tennessee Technological University
Cookeville, TN 38505
Phone: 931-372-3763
FAX: 931-372-3484
E-mail: sstedman@tntech.edu

ASSISTANT EDITOR

Christy T. Carter
Department of Biology
Box 5063
Tennessee Technological University
Cookeville, TN 38505
Phone: 931-372-3147
FAX: 931-372-6257
E-mail: ctcarter@tntech.edu

EDITORIAL BOARD

Botany

James D. Caponetti
Div. of Biology
Univ. of Tennessee, Knoxville
Knoxville, TN 37996
Email: jcaponct@utk.edu

Cell and Molecular Biology

Chad S. Brooks
Dept. of Biology
P.O. Box 4718
Austin Peay State University
Clarksville, TN 37044
Phone: (931) 221-6499
FAX: (931) 221-6323
Email: brooksc@apsu.edu

Chemistry

Martin V. Stewart
Dept. of Chemistry
Middle Tennessee State Univ.
Murfreesboro, TN 37132
Email: mstewart@mtsu.edu

Engineering

Michael L. Daley
Dept. of Electrical Engineering
The Univ. of Memphis
Memphis, TN 38152
Email: mdaley@memphis.edu

Ethics in Science and Technology

Norman Tolk
Dept. of Physics and Astronomy
Vanderbilt University
Nashville, TN 37235
Email: norman.tolk@vanderbilt.edu

Geology and Geography

Michael Gibson
Dept. of Geol., Geog., and Physics
Univ. of Tennessee, Martin
Martin, TN 38238
Email: mgibson@utm.edu

History of Science

George E. Webb
Dept. of History
Tennessee Tech. Univ.
Cookeville, TN 38505
Email: gwebb@tntech.edu

Mathematics and Computer Science

William K. Glunt
Dept. of Math. and Computer Sci.
Austin Peay State Univ.
Clarksville, TN 37044
Email: gluntw@apsu.edu

Medical Sciences

J. Michael Redding
Dept. of Biology
Tennessee Technological Univ.
Cookeville, TN 38505
Email: mredding@tntech.edu

Microbiology

Jon H. Lowrance
Dept. of Biology
Lipscomb Univ.
Nashville, TN 37204
Email: jon.lowrance@lipscomb.edu

Physics and Astronomy

Martha Weller
Dept. of Physics and Astronomy
Middle Tennessee State Univ.
Murfreesboro, TN 37132
Email: mweller@mtsu.edu

Science and Mathematics Teaching

Sarah F. Barlow
Dept. of Biology
Middle Tennessee State Univ.
Murfreesboro, TN 37132
Email: sbarlow@mtsu.edu

Zoology

Chris Brown
Department of Biology
Box 5063
Tennessee Technological University
Cookeville, TN 38505
Email: cbrown@tntech.edu

INFORMATION FOR CONTRIBUTORS

THE JOURNAL OF THE TENNESSEE ACADEMY OF SCIENCE was established in 1925 to publish science-based papers that are of interest to people residing and working in Tennessee. Acceptable topics include biology, chemistry, engineering, geology, geography, history of science, mathematics, computer science, medical sciences, physics, astronomy, and science teaching.

Manuscripts should include a brief but explicit title, and the name, affiliation, and address for each author. All manuscripts must have an abstract consisting of one paragraph of 250 words or less. An introduction (with no heading) follows the abstract and includes the purpose of the study or paper. The text follows the introduction and should be divided by central main headings such as materials and methods, results, and discussion. However, organization of the main headings will vary depending on the discipline. The text should be followed with sections such as literature cited, appendix, figure legends, and tables, as needed. Figure legends and tables should be on a separate page.

Manuscripts, including abstract, text, literature cited, and figure legends should be word-processed and double spaced with 2.5 cm margins. All text to be printed in italics should be typed in italics. Do not use boldface or underline. Tables and figures should be prepared as individual files.

Manuscripts for consideration of publication should be submitted at <http://jtas.allentrack2.net>. Prospective authors should consult a recent Journal issue for general style. Detailed instructions for manuscript preparation and submission are available from the Managing Editor (sstedman@tntech.edu). Specific questions regarding the online submission process should be directed to support@allentrack.net.

Manuscripts are reviewed by at least two appropriate reviewers and are subject to editing. Final acceptance of the paper is decided by the Managing Editor. At least one author of any accepted paper must be a member of the TENNESSEE ACADEMY OF SCIENCE before the paper can be published. A charge of \$90 per printed page is required to help defray publication costs. Reprints (in multiples of 100) may be ordered at the time proofs are received. Payment of page charges and reprint costs is expected prior to publication.

**INSTITUTIONAL SUSTAINING MEMBERS
OF THE TENNESSEE ACADEMY OF SCIENCE**

Austin Peay State University, Clarksville

Middle Tennessee State University, Murfreesboro

Motlow State Community College, Tullahoma

Rhodes College, Memphis

Tennessee Technological University, Cookeville

The University of Tennessee, Knoxville

University of Tennessee, Martin, Martin

The University of Tennessee Space Institute, Tullahoma

Volunteer State Community College, Gallatin

**FUTURE MEETINGS OF THE
TENNESSEE ACADEMY OF SCIENCE**

2008

Joint Meeting with the Tennessee Science Teachers Association
Nashville, Tennessee

2009

The University of Tennessee, Knoxville
Knoxville, Tennessee