BEST STUDENT PRESENTATION AWARDS AT THE 2002 ANNUAL MEETING
OF THE TENNESSEE ACADEMY OF SCIENCE

Oral Presentations

Botany
First Place—Dwayne Estes. Clarification of Carex Section Phaestoglochin in Tennessee, With Particular Reference to C. radiata. Middle Tennessee State University, Murfreesboro, Tennessee
Second Place—Jack Torkelson. The Status of Castanea dentata on the Northern Highland Rim of Kentucky and Tennessee. Volunteer State Community College, Gallatin, Tennessee
Third Place—Gerija Shinde. Nitrogen and Carbon Use in Three Taxa of Lemnaceae. Tennessee Technological University, Cookeville, Tennessee

Cell and Molecular Biology
First Place—Todd Edwards. The BST1 Gene Product is a Negative Regulator of Vesicle Budding From the Endoplasmic Reticulum, and may Contain a Lipase Domain. Middle Tennessee State University, Murfreesboro, Tennessee

Chemistry
First Place—Archana Kotee. Use of Signature Molecular Descriptor for Compound Design and Library Screening. Tennessee Technological University, Cookeville, Tennessee

Engineering and Engineering Technology
First Place—Saravanan Swaminathan. Modeling of Refrigerant Mixtures Using SAFT-VR Equation of State. Tennessee Technological University, Cookeville, Tennessee
Second Place—N. Vyas. Micronizing Field Flow Fractionation. Tennessee Technological University, Cookeville, Tennessee
Third Place—K. Meenakshisundaram. Kinetics and Microscopic Study of the Reaction Between Blast Furnace Slag and Calcium Hydroxide. Tennessee Technological University, Cookeville, Tennessee

Geology and Geography
First Place—Jane Whitnell. Comparative Taphonomy of Scyphocrinites Loboliths From Two West-Central Tennessee Localities. University of Tennessee, Martin, Martin, Tennessee
Second Place—Ryan Faerber. Death Valley and the Depositional Setting of the Tennessee Ocoee Series. University of Tennessee, Chattanooga, Chattanooga, Tennessee

Health and Medical Sciences
First Place—Jeffrey E. Carter. Adult Stem Cell Transplantation Into Ischemic Myocardium. College of Medicine, East Tennessee State University, Johnson City, Tennessee
Second Place—Luke Barker. Pharmacokinetics of Intravenous (1-3)-β-D-Glucans in Rats. College of Medicine, East Tennessee State University, Johnson City, Tennessee

Mathematics and Computer Science
First Place—Yousef Mohammed. Relativity and Rocket Powered Flight. East Tennessee State University, Johnson City, Tennessee
Second Place—Rick Simons. Securing a Regional College Campus Computer Network: A Case Study. East Tennessee State University, Johnson City, Tennessee

Microbiology
First Place (tie)—Jesse M. Carter. Allelopathic and Antimicrobial Properties of Ligusticum porteri. Middle Tennessee State University, Murfreesboro, Tennessee
First Place (tie)—Eric C. Freundt. Detection of a Tick-Borne Enterovirus in Patient Cerebrospinal Fluid. Middle Tennessee State University, Murfreesboro, Tennessee
Third Place—Srilekha Deka. Superinfection With Herpes Simplex Virus Type 2 Induces a Persistent Morphology in Chlamydia trachomatis. East Tennessee State University, Johnson City, Tennessee

Zoology
First Place (tie)—Brian D. Carver. An Assessment of Spatial Partitioning of Habitat Among Mammalian Mesopredators. The University of Memphis, Memphis, Tennessee
First Place (tie)—Roger A. Baldwin. Association of Selected Habitat Variables to Capture Success of Mesopredators. \textit{The University of Memphis, Memphis, Tennessee}

Third Place—John R. Hisey. Long-Term Dynamics in a Population of Raccoons, \textit{Procyon lotor}, in Southwestern Tennessee. \textit{Lee University, Cleveland, Tennessee}

Poster Presentations

Chemistry

First Place—Cynthia R. Allison. To Buy or Not to Buy: Preparation of Colloidal Silica Spheres. \textit{Middle Tennessee State University, Murfreesboro, Tennessee}

Second Place—David E. Noga. Synthesis of Amino- and Carboxylic Acid-Terminated-Organosilanes. \textit{Middle Tennessee State University, Murfreesboro, Tennessee}

Third Place—Michael Hobkirck. Controlled Coating of Colloids: Organosiloxane Films on Silica Nanoparticles. \textit{Middle Tennessee State University, Murfreesboro, Tennessee}

Engineering and Engineering Technology

First Place—Anand Narayanan. Molecular Modeling of HFC-245FA. \textit{Tennessee Technological University, Cookeville, Tennessee}

Health and Medical Sciences

First Place—Kimberly Thompson. Adolescent Nicotine Treatment Alleviates Cognitive Deficits in a Rodent Model of Schizophrenia. \textit{College of Medicine, East Tennessee State University, Johnson City, Tennessee}

Second Place—Rachel L. Norris. Nicotine Improves Spatial Performance in Medial Frontal Cortex Lesioned Rats, but Improvement Depends on Previous Experience. \textit{College of Medicine, East Tennessee State University, Johnson City, Tennessee}

Third Place—Esha D. Ibrahim. 5-AZA-2’-Deoxycytidine for Myocardial Infarctions. \textit{College of Medicine, East Tennessee State University, Johnson City, Tennessee}

Mathematics and Computer Science

First Place (tie)—Justin L. Starnes. Augmenting Microsoft Visio to Generate SQL From ER Diagrams: The METS Project. \textit{East Tennessee State University, Johnson City, Tennessee}

First Place (tie)—Margaret C. Lester. Development of a Data Warehouse of Academic Outcome Assessment Data. \textit{East Tennessee State University, Johnson City, Tennessee}

Microbiology

First Place—James Fairman. Novel Penicillin Resistance in \textit{Moraxella catarrhalis}. \textit{East Tennessee State University, Johnson City, Tennessee}

Zoology

First Place (tie)—Amy Evjen. A Study of the Effect of Tail Autotomy on Social Dominance Among Male Five-Lined Skink, \textit{Eumeces fasciatus}, in Contests Over Mating Access to Reproductive Females. \textit{Austin Peay University, Clarksville, Tennessee}

First Place (tie)—Amelia Lewis. A Study of the Efficacy of Passive Integrated Transponders for Permanent Identification of \textit{Eumeces fasciatus} and \textit{Eumeces laticeps}. \textit{Austin Peay University, Clarksville, Tennessee}