

## 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 *Scyphrocrinites* 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)- $\beta$ -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. Alleopathic 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. *The University of Memphis, Memphis, Tennessee*

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

#### Poster Presentations

##### Chemistry

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

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

Third Place—Michael Hobkirk. Controlled Coating of Colloids: Organosiloxane Films on Silica Nanoparticles. *Middle Tennessee State University, Murfreesboro, Tennessee*

##### Engineering and Engineering Technology

First Place—Anand Narayanan. Molecular Modeling of HFC-245FA. *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. *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. *College of Medicine, East Tennessee State University, Johnson City, Tennessee*

Third Place—Esha D. Ibrahim. 5-AZA-2'-Deoxycytidine for Myocardial Infarctions. *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. *East Tennessee State University, Johnson City, Tennessee*

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

##### Microbiology

First Place—James Fairman. Novel Penicillin Resistance in *Moraxella catarrhalis*. *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, *Eumeces fasciatus*, in Contests Over Mating Access to Reproductive Females. *Austin Peay University, Clarksville, Tennessee*

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