

STUDENT PRESENTATION AWARDS AT THE 2008 COLLEGIATE MEETINGS

EASTERN REGION

LINCOLN MEMORIAL UNIVERSITY
HARROGATE, TENNESSEE
12 APRIL 2008

ORAL PRESENTATIONS

Physics and Astronomy

First Place—Sheryl Hill. A Comparative Study of the Impact of Four Different Arrows and Four Different Arrow Tips. Lincoln Memorial University, Harrogate, Tennessee

Second Place—Stanley Marlowe. A Study of Consistent Precise Electrocardiograph Lead Placement for 12-Lead ECG for More Accurate Diagnosis. Lincoln Memorial University, Harrogate, Tennessee

Third Place—Anna Eldridge. The Effect of the Angle Theta While Measuring Blood Flow Velocities Using Duplex Doppler. Lincoln Memorial University, Harrogate, Tennessee

Chemistry

First Place—Scott Keith. Enzymatic Conversion of Switchgrass to Ethanol. Lincoln Memorial University, Harrogate, Tennessee

Mathematics and Science Education

First Place—Beth Ann Mattie. Physics and Research. Lincoln Memorial University, Harrogate, Tennessee

Cell and Molecular Biology, Medical Sciences, Microbiology, Psychology

First Place—Daniel Douglas. The Land Snails of Norris Dam State Park, Tennessee: Species Diversity among Four Physical Communities Found within the Park. Lincoln Memorial University, Harrogate, Tennessee

Second Place—Tyler Adams. Habitat Partitioning by a Sympatric Community of Fox (*Sciurus niger*) and Grey (*Sciurus carolinensis*) Squirrels. Lincoln Memorial University, Harrogate, Tennessee

Third Place—Casey B. Dunn. The Impact of Watershed Development on Zooplankton Communities in Norris Lake, Tennessee. Lincoln Memorial University, Harrogate, Tennessee

POSTER SESSION

Chemistry

First Place—William T. Ervin. Demonstration of Low Pressure Catalytic Hydrogenation. Walters State Community College, Morristown, Tennessee

Second Place—William R. Walker. Demonstration of the Abbe Refractometer. Walters State Community College, Morristown, Tennessee

Third Place—Laura Cobb. Demonstration of the Dean-Stark Trap in a Fischer Esterification. Walters State Community College, Morristown, Tennessee

Engineering

First Place—Zachary M. Linkous. Demonstration of Continuous Liquid-Liquid Extraction. Walters State Community College, Morristown, Tennessee

Second Place—Andrew D. Linkous. Demonstration of Vacuum Distillation for the Purification of DEET. Walters State Community College, Morristown, Tennessee

Microbiology

First Place—Robert C. Wood. Synthesis of Sulfanilamide Coupled with Microbiological Analyses of Antibacterial Capabilities and Characteristics. Walters State Community College, Morristown, Tennessee

MIDDLE REGION

BELMONT UNIVERSITY
NASHVILLE, TENNESSEE
12 APRIL 2008

Ecology and Botany

First Place—Jill Neblet. Examining the Impact of Human Activity on Swan Lake. Belmont University, Nashville, Tennessee

Second Place—S. Silpa Pallapothu. AFLP Analysis of Six Heirloom Tomatoes. Tennessee State University, Nashville, Tennessee

Chemistry and Physics

First Place—Rachel Stephens. Histidine Decarboxylase Assay by Capillary Electrophoresis. Lipscomb University, Nashville, Tennessee

Second Place—Kathleen Grunder. Calibration Procedure for Oxygen Sensing Film Images. Vanderbilt University, Nashville, Tennessee

Immunology

First Place—Dale Carter. T-Cell Cytokines Associated with Inflammatory Bowel Disease in *MDR* Knock-out and Chimera Models. Belmont University, Nashville, Tennessee

Second Place—Stephen May. *Caenorhabditis elegans* Immune Pathways in Defense Against *Streptococcus pneumoniae*. Belmont University, Nashville, Tennessee

Cellular and Molecular Biology

First Place—Jenny Lu. Maintaining Long-Term Cell Viability in a Perfused Bioreactor System. Vanderbilt University, Nashville, Tennessee

Second Place—Olukemi Gbemisola Jolayemi. Optimization of DMSO (Dimethanol Sulfoximide) in Preserving Human Cell Lines. Tennessee State University, Nashville, Tennessee

Microbiology

First Place—Sarah Brandt. Studying DNA Polymerase Complex of Smallpox Virus. Belmont University, Nashville, Tennessee

Second Place—Allie Thomas. Are Germs Muscling Their Way into Your Gym? Measuring the Incidence of Methicillin Resistant *Staphylococcus aureus* in High School Athletic Facilities. Austin Peay State University, Clarksville, Tennessee

Behavior and Zoology

First Place—Rebecca Repasky. Nicotine Facilitates Learning in Zebrafish, *Danio rerio*. Belmont University, Nashville, Tennessee

Second Place—Bethany Woodward. Characterization of “Shrinker” Mutants in *Caenorhabditis elegans*. Belmont University, Nashville, Tennessee

WESTERN REGION

UNIVERSITY OF MEMPHIS
MEMPHIS, TENNESSEE
5 APRIL 2008

ORAL PRESENTATIONS

Section I

First Place—John Lawson. Roosting Habits of Two Species of Bats in Western Tennessee. Freed-Hardeman University, Henderson, Tennessee

Section II

First Place—Rebecca Scott. Para^{ts} Mutant Flies Show Neuronal Damage After Ischemic Injury. Christian Brothers University, Memphis, Tennessee

Section III

First Place (tie)—Kimberly Williams. Maintenance of Beta Adrenergic Receptor Signaling in Human Microvascular Retinal Endothelial Cells. Christian Brothers University, Memphis, Tennessee

First Place (tie)—Jeremy Armstrong. Macular Pigment Optical Density's Role in Macular Physiology and Disease. Christian Brothers University, Memphis, Tennessee

POSTER SESSION

First Place—Jacquelyn J. Hancock. The Gene *THI73* and its Role in G1 Cyclin *Cln3* Function in *S. cerevisiae*. Rhodes College, Memphis, Tennessee