STUDENT PRESENTATION AWARDS AT THE 2009 COLLEGIATE MEETINGS

EASTERN REGION
LINCOLN MEMORIAL UNIVERSITY
HARROGATE, TENNESSEE
4 APRIL 2009

ORAL PRESENTATIONS

Botany
First Place—Katharine Michelle Sloop. Effects of a Late Freeze and Prolonged Drought on an East Tennessee Hardwood Forest. University of Tennessee at Knoxville, Knoxville, Tennessee

Health Science
First Place—Hannah Debusk. An Investigation into the Effects of Dieting on Mobility of Dogs and Cats. Lincoln Memorial University, Harrogate, Tennessee

Math and Science Teachin
First Place—Eugenie de Silva. Teaching Physics and Chemistry through Software Programs. Missouri University, Columbia, Missouri

Medical Science
First Place—Justin Patel. An Investigation into Osteopathic Manipulation Treatment for Carpal Tunnel Syndrome. Lincoln Memorial University, Harrogate, Tennessee

Physics and Astronomy
First Place—Jackie Martindale. The Science of Sine Waves and Harmony in Music. Lincoln Memorial University, Harrogate, Tennessee
Second Place—Chris Stotts. Frequency Constancy Relationships over Medium Change. Lincoln Memorial University, Harrogate, Tennessee
Third Place—Tessa Garrett. An Investigation into the Correlation Between Lameness and Torque Applied to the Right Fore-Limb of the Heading Horse. Lincoln Memorial University, Harrogate, Tennessee

Zoology
First Place—Scott Gillespie. An Inventory of Reptiles in Sumner County, Tennessee. Maryville College, Maryville, Tennessee

MIDDLE REGION
TENNESSEE STATE UNIVERSITY
NASHVILLE, TENNESSEE
18 APRIL 2009

ORAL PRESENTATIONS

Biology: Animal and Cellular Behavior
First Place—Lauren Oester. Specificity of Anti-Predator Behavior in Streamside Salamander Larvae. Belmont University, Nashville, Tennessee
Second Place—Adit Dhummakupt. Information Cascades in a Protozoan Population. Vanderbilt University, Nashville, Tennessee
Third Place—M. Christina Inman. Investigating a Possible Connection Between Pathogen Avoidance and Reproductive Output of Caenorhabditis elegans. Belmont University, Nashville, Tennessee

Biology: Neuroscience
First Place—Robert Gibson. The Effects of 6-Hydroxydopamine, Sulpiride and Sch-23390 on Locomotion in Caenorhabditis elegans. Belmont University, Nashville, Tennessee
Second Place—Brittany L. Myers. Blocking the Effects of 6-OHDA in Caenorhabditis elegans. Belmont University, Nashville, Tennessee
Third Place—Warren Dean V. Modulation of L-Amino Acidic Decarboxylase Expression in the Striatum of Mptp-Pd Mouse Model. Tennessee State University, Nashville, Tennessee

Cancer Biology
First Place—Dylan R. Addis. Small Collagen Peptides Modulate Angiogenesis. Lipscomb University, Nashville, Tennessee
Second Place—Olukemi Gbemisola Jolayemi. Optimization of Dimethanol Sulfoximide in Preserving Human Cancer Cell. Tennessee State University, Nashville, Tennessee
Third Place—Olena McDowell. Anti-Cancer Compounds Extracted from Phytochemical. Tennessee State University, Nashville, Tennessee

Chemistry
Second Place—Elizabeth S. Muffly. Structural Studies of o²-Benzyldeoxyguanosine Adduct Paired Opposite Synthetic Base in Dickerson Drew Dodecamer Duplex (ddd). Vanderbilt University, Nashville, Tennessee

Third Place—Million T. Mesfin. Theoretical Investigation of Interstellar Phosphaethyne. Tennessee State University, Nashville, Tennessee

Engineering, Math, and Computer Science
First Place—Liwei Jiang. Engineering a Perfusion-Enabled Rotocrespor to Allow the Addition of Nutrients, Chemottractants, and Drugs. Vanderbilt University, Nashville, Tennessee
Second Place—Yuliya Melnikova. Green’s Function-Based Approach to Non-Linear Boundary Value Problems. Middle Tennessee State University, Murfreesboro, Tennessee
Third Place—Ato Wallace. Economic Impact of Interventions Applied to Epidemiological Biosurveillance Problems. Fisk University, Nashville, Tennessee

Entomology
First Place—Justin D. Glenn. Structural and Functional Characterization of the Mosquito Dorsal Vessel. Vanderbilt University, Nashville, Tennessee
Second Place—Andrew E. Wicke. Macroinvertebrate Diversity and Water Quality at a Trout Hatchery Stream Entering the Obey River, Clay County, Tennessee. Belmont University, Nashville, Tennessee
Third Place—William Baugh. Aquatic Macro Invertebrates and the Distribution of Ambystoma barbouri in Central Tennessee. Belmont University, Nashville, Tennessee

Immunology and Microbiology
First Place—Mollie A. Schlarmann. Presence of Pbp2a Protein in Methicillin-Resistant Staphylococcus aureus Isolates Containing the Mec-a Gene. Belmont University, Nashville, Tennessee
Second Place—Alaia L. Williams. Incidence of Methicillin-Resistant Staphylococcus aureus in Belmont University Dormitories. Belmont University, Nashville, Tennessee
Third Place—Esther Caroline Kibakaya. Flame Retardant Tetrabrommophenol-a Interferes with the Immune Function of Human Natural Killer Cells. Tennessee State University, Nashville, Tennessee

Zoology/Geology
First Place—Nigel Luther. Potential Evolutionary Patterns of Pennsylvanian Age Amphibities centromus (Ulrich And Bassler 1906) from the Mid-Continent of North America. Tennessee Technological University, Cookeville, Tennessee
Second Place—Alaina Reagan. A Phylogeny for the Salamander Family Ambystomatidae Based on a Nuclear Marker. Belmont University, Nashville, Tennessee
Third Place—Audrey S. Henson. Resolving Conflicts in Ambystomatid Salamander Phylogeny with Nuclear DNA. Belmont University, Nashville, Tennessee

WESTERN REGION
RHODES COLLEGE
MEMPHIS, TENNESSEE
4 APRIL 2009

ORAL PRESENTATIONS

Session 1
First Place—Erica C. McMorris. Evaluation of In Vitro Vasoreactive Properties of Newly Discovered BK Channel Activators. Christian Brothers University, Memphis, Tennessee
Second Place—Amanda S. Hoeffken. Obesity among Childhood Hodgkin Lymphoma Survivors. Rhodes College, Memphis, Tennessee
Third Place—Benjamin Jackson. Over-expression of CKAP2 Reduces Colony Formation in Hela Cells. Freed-Hardeman University, Henderson, Tennessee

Session 2
First Place—Stephanie N. Cassell. Assessing Amphibian Marking Techniques in Recent Toad Metamorphs: Reliability, Effects on Survivorship and Physiology, and Conservation Implications. Rhodes College, Memphis, Tennessee
Second Place—Emily Wong. Carbohydrate Distribution in Bamboo. Christian Brothers University, Memphis, Tennessee
Third Place—Blake A. Jackson. Comparison of Flight Patterns and Habitat Preferences among the AE. vexans, CX. erraticus, and AN. smaragdinus Mosquito Populations. Christian Brothers University, Memphis, Tennessee

Session 3
First Place—Stephanie Johnson. Chromatic Discrimination Measured with mVEPS. Christian Brothers University, Memphis, Tennessee
Second Place—Laura R. Johnson and Chassidy Groover. GDP-mannose Transporters in the Filamentous Fungus Aspergillus nidulans. Rhodes College, Memphis, Tennessee
Third Place—Michelle Paul. Identification of Synergistic Antimalarial Therapeutics from a Collection of Bioactive Compounds. Christian Brothers University, Memphis, Tennessee
POSTER PRESENTATIONS

Poster Session


Second Place—Lauren Lambeth. Changes in Soil Characteristics by English Ivy (Hedera helix) in Overton Park. Rhodes College, Memphis, Tennessee

Third Place—Marcus Harris. Potentiometric Titrations of Malic and Citramalic Acids with Aluminum in Aqueous Solutions. LeMoyne-Owen College, Memphis, Tennessee

Recipients of the Tennessee Academy of Science Distinguished Secondary School Science Teacher Award

1997—Alan Redmond, John Sevier Middle School, Kingsport
1998—Linda Phelps, Camden Central High School, Camden
1999—Jane Whitaker, Lenoir City High School, Lenoir City
2000—Pat Carpenter, McDonald School, Mohawk
2001—Gary Barrigar, Elizabethton High School, Elizabethton
2002—Kathryn Gemmer, University School, Johnson City
2003—Constance Brown, McEwen High School, McEwen
2004—Jan Coley, Jefferson County High School, Dandridge
2005—Marion Pitts, Westview High School, Martin
2006—Jennifer Dye, Pope John Paul II High School, Hendersonville
2007—Ronnie L. Nixon, Greenbrier High School, Greenbrier
2008—Sarah Elizabeth Millsap, Blackman High School, Murfreesboro