13TH ANNUAL SC UPSTATE RESEARCH SYMPOSIUM STUDENT AWARDS

ORAL PRESENTATION CATEGORIES & Awardees

COMMERCIAL MUSIC:

MARY NORRIS, University of South Carolina Upstate
"You Really Got Me": A Heavy Metal Prototype
Mentor: Dr. Nolan Stolz

HEALTH SCIENCES:

CIARA STEELE, Converse College
A 1st Generation Amperometric Biosensor for the Detection of Clinically Relevant Molecules
Mentor: Dr. William Case

HISTORY AND CULTURE:

AUDREY PELICANO, Greenville Technical College
The Hidden Languages of World War II: A Study in the German Enigma and American Navajo Codes
Mentor: Dr. Lee McAbee

MATHEMATICS AND COMPUTER SCIENCE:

HOWIE JORDAN, University of South Carolina Upstate
Toward Foundations for a Formal Theory of Numeral Systems
Mentor: Dr. David Marlow

NATURAL SCIENCES:

TIE BETWEEN:

JINYOUNG KIM, University of South Carolina Upstate
Microbial Contamination on Touch Surfaces in Pediatric Outpatient Facilities
Mentor: Dr. Ginny Webb

REAGEN WELCH, Southern Wesleyan University
Moringa oleifera Leaf Extract and its Cancer-Selective Antiproliferative Properties
Mentor: Dr. Ashlee Tietje

SERVICE LEARNING:

CHANNON REID, University of South Carolina Upstate
Serving Internationally: Spanish, Education, & Altruism
Mentor: Dr. David Marlow

SOCIAL SCIENCES:

ERIN CROSS, Southern Wesleyan University
The Effect of Gun Maintenance on Bullet Striations through Successive Firings
Mentor: Dr. James McDonald
COMPUTER SCIENCE:

*Tie Between:*

**PAUL CUENIN & KAMREN MANGRUM**, Lander University  
*Development of System Dynamics Modeling and Simulation Software: DSSIM 2.0*  
Mentor: Dr. Gilliean Lee

**DANIEL PUCKETT**, University of South Carolina Upstate  
*Variability in Research Findings on the Effectiveness of Test Suites*  
Mentor: Dr. Amanda Schwartz

ENVIRONMENTAL SCIENCE

**KRISTEN PEGLER**, Presbyterian University  
*Ecotoxicological Impact of the Ionophore Narasin on the Gonadal Profile of the Southern Leopard Frog*  
Mentor: Dr. Amanda Schwartz

HEALTH SCIENCES:

**CALEB DALTON HAGEN**, Lander University  
*The Effect of β-Methylamino-L-alanine on Brain Development of Chicken Embryos and its Possible Role in the Induction of Alzheimer’s Disease*  
Mentor: Dr. Jennifer Maze

HUMANITIES:

**KENDALL HENDERSON**, University of South Carolina Upstate  
*Making a Novel: A Conversation*  
Mentor: Dr. Thomas McConnell

NATURAL SCIENCES - BIOLOGY:

*Tie Between:*

**SUZIE PACE**, Lander University  
*The Role of Leptin, mT"OR, and Kisspeptin in Activating GnRH Neurons during the Pubertal Transition in Female Rats*  
Mentor: Dr. Timothy Pace

**VLADISLAV REZNICHENKO**, University of South Carolina Upstate  
*Evolutionary Divergence in Herkogamy among Yellow-Flowered Linum*  
Mentor: Dr. Ben Montgomery

NATURAL SCIENCES - CHEMISTRY:

*Tie Between:*

**DUSTIN HARMON**, University of South Carolina Upstate  
*Degradation of Dimethyl-Trisulfide using Slow Releasing Manganese Oxide Coated Potassium Permanganate Particles*  
Mentor: Dr. Anselm Omoike

**LORI SMITH**, Lander University  
*Hybrid Organic-Inorganic Epoxy/Polyhedral Oligomeric Silsesquioxane Nanocomposites Reinforced with Functionalized Multi-Walled Carbon Nanotubes*  
Mentor: Dr. K. Lisa Brodhacker

PSYCHOLOGY:

**HAYLEE BATSON**, University of South Carolina Upstate  
*Implicit and Explicit Measures of Bias toward Disabled Persons in the Workplace*  
Mentor: Dr. Stefanie Keen