

POSTER-LIFE SCIENCES

1st PLACE: Tony Tillman, Jr. (Junior, Agriculture and Consumer Sciences, Tennessee State University) Title: The Effects of Iron on Pistia stratiotes (Water Lettuce) and Eichhornia crassipes (Water Hyacinth) on Growth and Development. (#5)

2nd PLACE: Marquinta King (Junior, Biological Sciences, University of Tennessee-Knoxville) Title: Functional Characterization of miR-27 in Zebrafish Embryos (#10)

3rd PLACE: Renetra Gist (Senior, Chemistry, Tennessee State University) Title: Investigation of Phenylalanine as an Anchor in GWALP Peptides (#7)

POSTER-ENGINEERING/MATHEMATICAL SCIENCES

1st PLACE: David Solomon (Junior, Civil and Environmental Engineering, Tennessee State University) Title: Improving the Design of Storm Water Filters for Mammoth Cave National Park (#17)

2nd PLACE (TIE) Sean McMillan (Junior, Civil and Environmental Engineering, Tennessee State University) Title: Storm Transport of Chemicals into Mammoth Cave (#13)

2nd PLACE (TIE) Troy Lambert (Senior, Computer Science, Tennessee State University) Title: Human Robot Interaction via Vision-Based Gesture Recognition (#2)

3rd PLACE: Mandela Magnidjem (Senior, Computer Science and Mathematics, LeMoyne-Owen College). Title: Virtual Volcano 2.0: An Interactive Earth Science Teaching Tool.

ORAL-ENGINEERING/MATHEMATICAL SCIENCES –Session I

1st PLACE: Justice Amankwah (Computer Science/Aerospace, Middle Tennessee State University) Title: Computer Science Embodies “FOCUS LAB”

2nd PLACE: Alejandro Angel (Engineering Technology, Middle Tennessee State University) Title: Microcomputer for Interfacing Hybrid Technology in Existing Automobiles.

3rd PLACE: Tony Lee (Engineering Technology, Middle Tennessee State University) Title: An Eco-Friendly Solar-Powered Boat

ORAL-ENGINEERING/MATHEMATICAL SCIENCES –Session II

1st PLACE: Andre’ Stevenson (Engineering, Vanderbilt University). Title: Off Chip Phomultiplier-based Continuous Flow Photometer *Channelscope System* for the Detection of Programmed Immuno-agglomerates in fabrica.

2nd PLACE: Ashley West (Engineering, Tennessee State University). Title: Efficiency of Zeolite-Perlite-Carbon Filters at Removing Metals and Organics from Storm Runoff

3rd PLACE: Jordan Qualls (Engineering Technology, Middle Tennessee State University). Title: Web Controlled Smart Appliance.

ORAL -LIFE SCIENCES-Session III

1st PLACE: Imade Imusuen (Biology, Vanderbilt University). Title: Effect of mutant KRAS on colorectal cancer cell-derived exosome composition.

2nd PLACE: Tyesha Martin (Biological Sciences, Tennessee State University). Title: Microbial Resistance to Quarternary Ammonia Compounds.

3rd PLACE: Cory Wilson (Biological Sciences, Tennessee State University). Title: Effects of Planting Dates, Densities and Varieties on ecophysiology of pigeionpea in the Southeastern United States.