
46TH ANNUAL TENNESSEE STATE UNIVERSITY-WIDE RESEARCH SYMPOSIUM

Presentation Winners

COLLEGE OF AGRICULTURE DAY

Graduate Oral

1st	GO-092	ASSESSMENT OF SOYBEAN CYST NEMATODE CONTROL USING OYSTER MUSHROOM (PLEUROTUS SPP.) MYCELIUM Niraj Ghimire*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Ali Taheri, Zeinab Yadegari, Lesley Schumacher
2nd	GO-108	EVALUATION OF CANOPY COVER, BIOMASS OF COVER CROPS AND WEEDS IN ORGANIC CROPPING SYSTEMS Sai Prakash Naraju*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Dilip Nandwani
3rd	GO-104	IDENTIFICATION OF PEPTIDE-RESPONSIVE HISTONE MODIFICATION GENES INVOLVED IN ROOT NODULE SYMBIOSIS Shivani Dharam*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Sonali Roy

Graduate Poster

1st	GP-040	A SYSTEMATIC REVIEW OF THE INFLUENCE OF URBAN SOIL MANAGEMENT ON TREE GROWTH AND LONG-TERM ECOSYSTEM SERVICES Diksha Tamang*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Yujian Chen
2nd	GP-114	SHORT-TERM SURVIVAL OF ZOO-RAISED AND RELEASED EASTERN HELLBENDERS IN CENTRAL TN AND FUTURE RESEARCH GOALS Taina McLeod*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): William Sutton, Sherri Doro-Reinsh, Dale McGinnity
3rd	GP-091	GENOME WIDE ANALYSIS OF FIELD SOYBEAN FOR ROOT NODULATION Niraj Ghimire*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Ali Taheri, Korsi Dumenyo

COLLEGE OF ENGINEERING DAY

Graduate Oral

1st	GO-102	REINFORCEMENT LEARNING BASED SMART GRID CONTROL OF AN 8MVA MICROGRID OPERATED IN GRID TIED AND ISLAND MODES Richard Wiencek*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sagnika Ghosh
2nd	GO-039	EXPLORING THE MECHANICAL ENHANCEMENT OF HYDROGEL-TREATED CONSTRUCTION AND DEMOLITION FINES Dorcas Machimu*, Cescar Kangongo. <i>Civil and Architectural Engineering</i> , College of Engineering. Advisor(s): Shihui Liu, Lin Li, Andrea Gardiner

3rd GO-083 **MODELING NEAR MISS LEVERAGING ARTIFICIAL INTELLIGENCE (AI) IN ADVANCED MULTIMODAL DATA**
Md Atiqur Rahman Mallick*. *Electrical and Computer Engineering*, College of Engineering. Advisor(s): Kamrul Hasan

Graduate Poster

1st GP-062 **FABRICATION OF ANTIBODY-LOADED MICROPARTICLES FOR SUSTAINED-RELEASE IMMUNOTHERAPY OF OVARIAN CANCER**
Karla Robles*. *TIGER Institute*, College of Engineering. Advisor(s): Richard Mu, Todd Giorgio

2nd GP-080 **INVESTIGATION OF PHOTODEGRADATION OF THIAMETHOXAM AND ACETAMIPRID IN AQUEOUS ENVIRONMENT UNDER UVB IN 4, 7 AND 9 pH**
Mercy Kangogo*, Doris Noah*. *Civil and Architectural Engineering*, College of Engineering. Advisor(s): Lin Li, Roger Painter, Gardiner Andrea Advisor(s): William Sutton, Sherri Doro-Reinsh, Dale McGinnity

COLLEGE OF HEALTH SCIENCES DAY

Graduate Oral

1st GO-051 **CRITICAL GEOGRAPHY AND THE SPATIAL NATURE OF RACE**
Gianni Carr*, Kendra Bassett. *Education Leadership*, College of Education. Advisor(s): Rajah Smart

Graduate Poster

1st GP-101 **EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER ADULT MALES: A SYSTEMATIC REVIEW**
Roy Etta*, Hamid Hadipour. *Physical Therapy*, College of Health Sciences. Advisor(s): Ronald Barredo, David Lehman

2nd GP-046 **THE ROLE OF MACHINE AND FREE WEIGHT TRAINING FOR OLDER ADULTS: A SYSTEMATIC REVIEW**
Garrison Benner*, Wade Denison. *Physical Therapy*, College of Health Sciences. Advisor(s): Marsha Bowman

3rd GP-065 **COST EFFECTIVE-APPROACH TO QUALITATIVE ANALYSIS: ANALYSIS OF DATA FROM A STUDY OF THE DEVELOPMENT OF AN ACADEMIC-COMMUNITY PARTNERSHIP**
Korab Idrizi*, Khem Plata*. *Center for Prevention Research*, Research and Sponsored Programs. Advisor(s): Rebecca Selove, David Schlundt

COLLEGE OF LIFE AND PHYSICAL SCIENCES DAY

Graduate Oral

1st GO-034 **"ELUCIDATING THE ROLE OF SFRP2 IN MODULATING ORGAN FIBROSIS"**
Delany Bradford*. *Biological Sciences*, College of Life and Physical Sciences. Advisor(s): Sarika Saraswati, Kim Cooney

Graduate Poster

1st	GP-073	AN EVALUATION OF META-ANALYSES OF GREENHOUSE GAS EMISSIONS AND CROP YIELD UNDER CONSERVATION TILLAGE PRACTICES Lovish Kasrija*. <i>Biological Sciences</i> , College of Life and Physical Sciences. Advisor(s): Dafeng Hui
2nd	GP-120	TOLL-LIKE RECEPTORS IN THE MECHANISM OF HEXABROMOCYCLODODECANE-INDUCED PRODUCTION OF PRO-INFLAMMATORY CYTOKINES, IL-1β, IL-6, AND TNF-α Wenjun Zhu*, April Falconer-Turner. <i>Chemistry</i> , College of Life and Physical Sciences. Advisor(s): Margaret Whalen

UNDERGRADUATE SESSIONS

Undergraduate Oral

1st	UO-023	WNT SIGNALING INHIBITION PROMOTES WOUND HEALING AND INHIBITS FIBROSIS IN CHRONIC WOUNDS Camille Haskins*. <i>Biological Sciences</i> , College of Life and Physical Sciences. Advisor(s): Sarika Saraswati, Hannah Barge, Dina Hassan
2nd	UO-017	NEW CROSS-COUPPLING PROCESS OF MAKING CHOLESTEROL ESTERS Brooklyn Phillips*. <i>Chemistry</i> , College of Life and Physical Sciences. Advisor(s): Mohammad Al-Masum

Undergraduate Poster

1st	UP-004	MEDIAN CABLE BARRIERS' ROLE IN CRASH REDUCTION IN TENNESSEE Aaron Lamson*. <i>Civil and Architectural Engineering</i> , College of Engineering. Advisor(s): Deo Chimba
2nd	UP-105	TRIBUTYLTIN-INDUCED PRODUCTION OF INTERLEUKIN-6 IN HUMAN IMMUNE CELLS REQUIRES MYD88 ACTIVATION Sophia Fisher*, Meaghan Lewis. <i>Chemistry</i> , College of Life and Physical Sciences. Advisor(s): Margaret Whalen
3rd	UP-028	FEEDING THE FUTURE: UNLEASHING THE POWER OF FERTILIZERS IN AGRICULTURAL INTENSIFICATION ACROSS NATIONS Charity Mcwilliams*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Prabodh Illukpitiya
