PRESENTATION SCHEDULES

MONDAY, MARCH 25, 2024

COLLEGE OF AGRICULTURE DAY

GRADUATE ORAL PRESENTATIONS - RSP 163

9:00 AM	GO-005	UNDERSTANDING AMINO ACID DIGESTIBILITY OF LOCALLY (TENNESSEE) GROWN SOYBEAN CULTIVARS FOR BROILER CHICKENS, AN IN VITRO STUDY Alexis McDade*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Pramir Maharjan, Virgina Sykes, Ali Taheri
9:10 AM	GO-008	OPTIMIZING ANDROGENIC MEDIA TO PRODUCE SORGHUM BICOLOR EMBRYOGENIC CALLI EXPRESSING THE GREEN FLUORESCENT Aron Felts*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ahmad Aziz, Christine A. Ondzighi-Assoume
9:20 AM	GO-010	DIET AND GUT MICROBIOME ASSOCIATIONS IN OBESITY Anjula swathi Sagam*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Gajender Aleti
9:30 AM	GO-018	FLOWERING PLANTS FOR ARTHROPOD PEST MANAGEMENT IN CROP PRODUCTION Binita Sigdel*, Yuna Gaire. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Kaushalya Amarasekare
9:40 AM	GO-021	HABITAT USE AND STATUS OF THE PYGMY RATTLESNAKE (SISTRURUSMILIARIUS) IN TENNESSEECarlin Frost* Jesse Eaker. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): William Sutton, Matthew Grisnik
9:50 AM	GO-022	FRACTIONALIZATION CHARACTERISTICS OF SORGHUM MICROSPORES HARVESTED ACROSS DIFFERENT DEVELOPMENTAL STAGES Chandana Kurapati*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Ahmad Aziz
10:00 AM	GO-026	OBSERVATION OF GROWTH DATA ON HYDRANGEA QUERCIFOLIA Christina Jennings*. <i>Otis L. Floyd Research Center</i> , College of Agriculture. Advisor(s): Fulya Baysal-Gurel, Lisa Alexander
10:20 AM	GO-033	COMBING LUTEOLIN AND INDOLE-3-CARBINOL EXERTS A SYNERGISTIC EFFECT ON INHIBITING ESTROGEN RECEPTOR-POSITIVE BREAST CANCER IN BOTH CAUCASIAN AND AFRICAN AMERICAN Divine Boka*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Hongwei Si
10:40 AM	GO-036	CAPE PEPTIDES ARE INVOLVED IN ROOT ARCHITECTURE AND NODULATION IN MEDICAGO TRUNCATULA. Divya Jain*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Sonali Roy
10:50 AM	GO-037	PROTEOMICS ANALYSIS OF POLLEN THERMOTOLERANCE IN TOMATO VARIETIES WITH CONTRASTING HEAT TOLERANCE TRAITS Dibya Thapa Magar*, Juo Guo, Kajol Pradhan, Priya Thapa. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Suping Zhou, Hui Li, Ted Thannhauser

GRADUATE ORAL PRESENTATIONS - RSP 163

11:00 AM	GO-053	DEVELOPING GENE EDITING SYSTEM FOR TOMATOES TO GENERATE STRESS TOLERANT LINES
		Jun Guo*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Suping Zhou, Sonali. Roy
11:10 AM	GO-060	AGRONOMIC PERFORMANCE OF MUNG BEAN IN WEST TENNESSEE
		Joshua Relyea*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Matthew Blair, Bruce Kirksey
11:20 AM	GO-070	CITRIC ACID/ β-ALANINE CARBON DOT MEDIATED FUNCTIONAL DNA DELIVERY IN PLANTS.
		Kuber Rangapura s*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Ali Taheri
11:30 AM	GO-085	PHENOTYPIC RESPONSES AND GENE EXPRESSION OF SOUTHERN PEA (VIGNA UNGUICULATA L. WALP.) TO ALUMINUM TOXICITY
		Max Miller*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Matthew Blair
11:40 AM	GO-086	SCREENING OF BACTERIAL ENDOPHYTES FOR BIOCONTROL OF SOUTHERN BLIGHT IN CANNABIS SATIVA L.
		Mustapha Olawuni*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Margaret Mmbaga, Emmanuel Omondi
Afternoon Ses	sion Begins	
1:00 PM	GO-092	ASSESSMENT OF SOYBEAN CYST NEMATODE CONTROL USING OYSTER

1:00 PM	GO-092	ASSESSMENT OF SOYBEAN CYST NEMATODE CONTROL USING OYSTER MUSHROOM (PLEUROTUS SPP.) MYCELIUM
		Niraj Ghimire*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Ali Taheri, Zeinab Yadegari, Lesley Schumacher
1:10 PM	GO-093	CROWN VOLUME ESTIMATION FOR INDIVIDUAL CONIFER TREES
		USING AIRBORNE LASER SCANNING DATA
		Nirmal Thapa*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Bharat Pokharel
1:20 PM	GO-094	AMPHIBIAN IMMUNE GENES; MOLECULAR CHARACTERIZATION AND
		FUNCTIONAL IMPLICATION OF INTERFERONS AND INTERLEUKIN-17
		GENE FAMILIES
		Oluwaseun Adeyemi*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Yongming Sang
1:30 PM	GO-098	EVALUATION OF REDBUD CULTIVARS FOR RESISTANCE TO CANKER
		DISEASES PREVALENT IN TENNESSEE
		Pratima Subedi*. Otis L. Floyd Research Center, College of Agriculture. Advisor(s):
		Fulya Baysal-Gurel, Prabha Liyanapathiranage
1:40 PM	GO-100	PLANT AND SEED CHARACTERISTICS OF WINTER CANOLA (BRASSICA
		NAPUS L.) VARIETIES IN TENNESSEE
		Sudip BK*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Jason de Koff
1:50 PM	GO-104	IDENTIFICATION OF PEPTIDE-RESPONSIVE HISTONE MODIFICATION
		GENES INVOLVED IN ROOT NODULE SYMBIOSIS
		Shivani Dharam*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Sonali Roy
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2:00 PM	GO-108	EVALUATION OF CANOPY COVER, BIOMASS OF COVER CROPS AND WEEDS IN ORGANIC CROPPING SYSTEMS
		Sai Prakash Naroju*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Dilip Nandwani
2:10 PM	GO-111	QUANTIFYING SALMONELLA TYPHIMURIUM IN GROUND CHICKEN THROUGH SURFACE PLASMON RESONANCE BIOSENSOR ANALYSIS Sandhya Thapa*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Fur-Chi Chen, Aliyar Fouladkhah
2:20 PM	GO-118	SCREENING OF POTENTIAL PI3K INHIBITORS FROM FOOD COMPOUND DATABASE (FooDB) Vivek Grandhe*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Brahmaiah Pendyala
2:30 PM	UO-079	UNVEILING THE GLOBAL FOOD INSECURITY CRISIS: A COMPARATIVE ANALYSIS OF PREVALENCE IN DEVELOPED AND DEVELOPING COUNTRIES Macaius Jones*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Prabodh Illukpitiya

GRADUATE POSTER PRESENTATIONS - 1ST AND 2ND FLOOR HALLWAYS

9:00 AM - 12:00 PM	GP-003	MODELING FOREST ATTRIBUTES USING AIRBORNE LASER SCANNING: A META-ANALYSIS
12:00 PM		Anish K C*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Bharat Pokharel
9:00 AM -	GP-006	ADULT FLATHEADED BORER ATTRACTION TO TRAPS IN THE VICINITY
12:00 PM		OF VEGETATION DAMAGED BY MOWING OR HERBICIDES AND
		IMPLICATIONS FOR NURSERY TREE ATTACKS
		Aubree Morrison*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Jason Oliver, Karla Addesso, Cindy Perkovich
9:00 AM -	GP-009	POST CRYOPRESERVATION SCREENING OF SORGHUM MICROSPORES
12:00 PM		ON MS MEDIA WITH VARIOUS ANTIBIOTICS
		Aron Felts*, Ja'Nyla Holcomb. Agricultural and Environmental Sciences, College of
		Agriculture. Advisor(s): Ahmad Aziz, Christine Ondzighi-Assoume
9:00 AM -	GP-014	CONTINUED PROFESSIONAL DEVELOPMENT AMONG SECONDARY
12:00 PM		AGRICULTURAL EDUCATION TEACHERS IN UGANDA, A CASE STUDY.
		Brian Kibirige*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): John Ricketts, Dr. Dustin Perry, Dr. Michael Walach
9:00 AM -	GP-038	DEVELOPING AN AI-BASED SYSTEM FOR ANALYSIS OF POLLEN
12:00 PM		THERMOTOLERANCE
		Dibya Thapa Magar*, Shourav Bin Rabbani, Priya Thapa, Kajol Pradhan. Agricultural
		and Environmental Sciences, College of Agriculture. Advisor(s): Suping Zhou, Manar
		Samad
9:00 AM -	GP-040	A SYSTEMATIC REVIEW OF THE INFLUENCE OF URBAN SOIL
12:00 PM		MANAGEMENT ON TREE GROWTH AND LONG-TERM ECOSYSTEM
		SERVICES
		Diksha Tamang*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Yujuan Chen
		*Denotes Presenters

9:00 AM - GP-054 THE DOSE-DEPENDENT BENEFICIAL AND TOXIC EFFECTS OF AL ON 12:00 PM SWITCHGRASS Jun Guo*, Priya Thapa, Kajol Pradhan, Dibya Thapa Magar. Agricultural and 9:00 AM - GP-059 EFFECTS OF SUMMER PLANTING DATES AND WINTER TILLAGE ON 9:00 AM - GP-059 EFFECTS OF SUMMER PLANTING DATES AND WINTER TILLAGE ON 9:00 AM - GP-091 GENOME WIDE ANALYSIS OF FIELD SOVBEAN FOR ROOT NODULATION 12:00 PM Niraj Ghimire*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ali Taheri, Korsi Dumenyo 9:00 AM - GP-097 COVER CROP CONTRIBUTIONS TO ECOSYSTEM SERVICES IN THE 12:00 PM SOUTHEASTERN US: A COMPREHENSIVE ASSESSMENT OF EXISTING KNOWLEDGE AND RESEARCH GAPS Puja Sapkota*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Resham Thapa, Jason De Koff 9:00 AM - GP-106 EXAMINING PARTICIPATION IN AGRICULTURAL INSURANCE AMONG SMALL FARMERS IN TENNESSEE Sujan Ghimire*, Purushotam Dhungana. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Aditya Khanal 9:00 AM - GP-109 MONITORING HEPETOFALVA AND OPHIDIOMYCES OPHIDIICOLA PREVALENCE IN LONGLEAF PINE FOREST RESTORATION STANDS IN BANKHEAD NATIONAL FOREST Samuel Robinson*, Rachel Brubaker. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Fur-Chi Chen 9:00 AM - GP-104 DEVELO	9:00 AM - 12:00 PM	GP-047	HERBICIDE RESISTANCE RELEVANT DNA SEQUENCES FOR JOHNSONGRASS AND PIGWEEDS ECOTYPES IN TENNESSEE Gouse Shaik*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Ahmad Aziz, Dilovan Yahya
12:00 PM SWITCHGRASS Jun Guo*, Priya Thapa, Kajol Pradhan, Dibya Thapa Magar. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Suping Zhou 9:00 AM - GP-059 12:00 PM EFFECTS OF SUMMER PLANTING DATES AND WINTER TILLAGE ON MIDDLE TENNESSEE MUNG BEAN PRODUCTION 10:00 PM Joshua Relyea*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Mathew Blair 9:00 AM - GP-091 GENOME WIDE ANALYSIS OF FIELD SOYBEAN FOR ROOT NODULATION Niraj Glimine*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ali Taheri, Korsi Dumenyo 9:00 AM - GP-097 COVER CROP CONTRIBUTIONS TO ECOSYSTEM SERVICES IN THE SOUTHEASTERN US: A COMPREHENSIVE ASSESSMENT OF EXISTING KNOWLEDGE AND RESEARCH GAPS 9:00 AM - GP-106 EXAMINING PARTICIPATION IN AGRICULTURAL INSURANCE AMONG SMALL FARMERS IN TENNESSEE 9:00 AM - GP-106 EXAMINING PARTICIPATION IN AGRICULTURAL INSURANCE AMONG SMALL FARMERS IN TENNESSEE 9:00 AM - GP-109 PREVALENCE IN LONGLEAF PINE FOREST RESTORATION STANDS IN BANKHEAD NATIONAL FOREST 9:00 AM - GP-109 DEVELOPMENT OF AN IMMUNOMAGNETIC CHEMILUMINESCENT 12:00 PM GP-110 DEVELOPMENT OF AN IMMUNOMAGNETIC CHEMILUMINESCENT 9:00 AM - GP-110 DEVELOPMENT OF AN IMMUNOMAGNETIC CHEMILUMINESCENT 12:00 PM	9:00 AM -	GP-054	
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9:00 AM - GP-097 COVER CROP CONTRIBUTIONS TO ECOSYSTEM SERVICES IN THE 12:00 PM SOUTHEASTERN US: A COMPREHENSIVE ASSESSMENT OF EXISTING KNOWLEDGE AND RESEARCH GAPS Puja Sapkota*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Resham Thapa, Jason De Koff 9:00 AM - GP-106 EXAMINING PARTICIPATION IN AGRICULTURAL INSURANCE AMONG SMALL FARMERS IN TENNESSEE Sujan Ghimire*, Purushottam Dhungana. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Aditya Khanal 9:00 AM - GP-109 MONITORING HERPETOFAUNA AND OPHIDIOMYCES OPHIDIICOLA PREVALENCE IN LONGLEAF PINE FOREST RESTORATION STANDS IN BANKHEAD NATIONAL FOREST Samuel Robinson*, Rachel Brubaker. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): William Sutton, Donald Walker 9:00 AM - GP-110 12:00 PM DEVELOPMENT OF AN IMMUNOMAGNETIC CHEMILUMINESCENT 12:00 PM ASSAY FOR QUANTITATIVE DETECTION OF SALMONELLA IN POULTRY PRODUCTS Sandhya Thapa*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Fur-Chi Chen 9:00 AM - GP-114 SHORT-TERM SURVIVAL OF ZOO-RAISED AND RELEASED EASTERN 12:00 PM SHORT-TERM SURVIVAL OF ZOO-RAISED AND RELEASED EASTERN 12:00 PM HELLBENDERS IN CENTRAL TN AN	12:00 PM		Niraj Ghimire*. Agricultural and Environmental Sciences, College of Agriculture.
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College of Agriculture. Advisor(s): Aditya Khanal9:00 AM - 12:00 PMGP-109MONITORING HERPETOFAUNA AND OPHIDIOMYCES OPHIDIICOLA PREVALENCE IN LONGLEAF PINE FOREST RESTORATION STANDS IN BANKHEAD NATIONAL FOREST Samuel Robinson*, Rachel Brubaker. Agricultural and Environmental Sciences , College of Agriculture. Advisor(s): William Sutton, Donald Walker9:00 AM - 12:00 PMGP-110DEVELOPMENT OF AN IMMUNOMAGNETIC CHEMILUMINESCENT ASSAY FOR QUANTITATIVE DETECTION OF SALMONELLA IN POULTRY PRODUCTS Sandhya Thapa*. Agricultural and Environmental Sciences , College of Agriculture. Advisor(s): Fur-Chi Chen9:00 AM - 12:00 PMGP-114SHORT-TERM SURVIVAL OF ZOO-RAISED AND RELEASED EASTERN HELLBENDERS IN CENTRAL TN AND FUTURE RESEARCH GOALS Taina McLeod*. Agricultural and Environmental Sciences , College of Agriculture. Advisor(s): William Sutton, Sherri Doro-Reinsh, Dale McGinnity9:00 AM - 12:00 PMGP-121A SYSTEMATIC REVIEW OF THE COOLING EFFECTS OF URBAN Xiaoyue Li*. Agricultural and Environmental Sciences , College of Agriculture.	12:00 PM		
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		01-121	
	12.00 PM		Advisor(s): Yujuan Chen, Ge Sun, De'Etra Young

UNDERGRADUATE POSTER PRESENTATIONS - 1ST FLOOR HALLWAY

1:00 PM -	UP-019	DENSITY GRADIENT BASED SEPARATION OF SORGHUM NATURAL
4:00 PM		PROTOPLASTS FOR TRANSFORMATION
		Blake Wright*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Ahmad Aziz, Aron Felts

1:00 PM -	UP-028	FEEDING THE FUTURE: UNLEASHING THE POWER OF FERTILIZERS IN
4:00 PM		AGRICULTURAL INTENSIFICATION ACROSS NATIONS
		Charity Mcwilliams*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Prabodh Illukpitiya
1:00 PM -	UP-126	YIELDS FROM TENNESSEE SWEET SORGHUM VARIETIES PER OPTIMAL
4:00 PM		HARVESTS FOR BIOFUEL AND FODDER USAGES
		Zion Hogan*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Ahmad Aziz, Aron Felts, Dilovan Yahya

TUESDAY, MARCH 26, 2024

College of engineering day

GRADUATE ORAL PRESENTATIONS - RSP 163

9:00 AM	GO-001	ENHANCING RAILROAD HIGHWAY GRADE CROSSING SAFETY AND
		EFFICIENCY THROUGH AI-DRIVEN CLOUD-EDGE INTEGRATION
		Al Amin*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Deo
		Chimba, Kamrul Hasan
9:10 AM	GO-016	ANALYZING IMPACT OF POLICE RESPONSE TIME IN THE CLEARANCE
J.10 / 101	00 010	AND DURATION OF TRAFFIC CRASHES IN TENNESSEE
		Bryson Mgani*. Civil and Architectural Engineering, College of Engineering.
		Advisor(s): Deo Chimba
9:20 AM	GO-020	DESIGN AND SIMULATION OF OPTIMAL MICROFLUIDIC CHANNEL FOR
).20 AWI	00-020	EFFECTIVE FLUID MIXING
		Christopher Buford*. Mechanical and Manufacturing Engineering, College of
		Engineering. Advisor(s): Landon Onyebueke, Sabrina Torres
9:30 AM	GO-025	IMIDACLOPRID PHOTOLYSIS UNDER TEMPERATURE.
9.30 AW	00-025	
		Richard Chimba*. <i>Civil and Architectural Engineering</i> , College of Engineering.
0.40.43.6	GO 000	Advisor(s): Lin Li, Roger Painter
9:40 AM	GO-032	AUTONOMOUS SOFTWARE SECURITY VULNERABILITY DETECTION
		BASED ON MACHINE LEARNING
		Daniela Birungi*. Computer Science, College of Engineering. Advisor(s): Fenghui Yao
9:50 AM	GO-039	EXPLORING THE MECHANICAL ENHANCEMENT OF HYDROGEL-
		TREATED CONSTRUCTION AND DEMOLITION FINES
		Dorcas Machimu*, Cescar Kangongo. Civil and Architectural Engineering, College of
		Engineering. Advisor(s): Shihui Liu, Lin Li, Andrea Gardiner
10:00 AM	GO-044	ENHANCING IOT CYBERSECURITY WITH AI-ENABLED ZERO TRUST: THE
		INTEGRATION OF REINFORCEMENT LEARNING FOR ADAPTIVE
		THREAT DETECTION AND RESPONSE
		Ekramul Haque*. Electrical and Computer Engineering, College of Engineering.
		Advisor(s): Kamrul Hasan
10:10 AM	GO-045	INTELLIGENT NETWORK FUNCTION PLACEMENT FOR NETWORK
		SLICING IN 5G NETWORKS: THE CASE FOR NETWORK SLICES TRAFFIC
		DIFFERENCES
		Emmanuel Samson*. Electrical and Computer Engineering, College of Engineering.
		Advisor(s): Kamrul Hasan, Liang Hong
10:20 AM	GO-049	ANALYZING HAZARDOUS MATERIALS (HAZMAT) TRANSPORTATION
10.2011.1		INCIDENTS USING TEXT MINING TECHNIQUES
		Irene Akyoo*. Civil and Architectural Engineering, College of Engineering. Advisor(s):
		Deo Chimba
10:40 AM	GO-050	EVALUATING THE IMPACT OF MEDIAN CABLE BARRIERS ON
		REDUCING FATAL AND SERIOUS INJURY CRASHES IN TENNESSEE OVER
		A SIX-YEAR PERIOD
		Innocent Macha*. Civil and Architectural Engineering, College of Engineering.
		Advisor(s): Deo Chimba
10:50 AM	GO-072	VERIFICATION OF BOEING 737-800 AIRCRAFT MODEL WITH VARIED
		COMPONENTS USING MATLAB-AID
		Lynn Fatu*. Mechanical and Manufacturing Engineering, College of Engineering.
		Advisor(s): Muhammad Akbar

GRADUATE AND UNDERGRADUATE ORAL PRESENTATIONS - RSP 163

11:00 AM	GO-081	AERODYNAMIC STUDY OF A BOEING 737-800 AIRCRAFT USING HIGH-
11.0011.01	00 001	FIDELITY TURBULENCE MODELS
		Mukesh Khatri*. Mechanical and Manufacturing Engineering, College of Engineering.
		Advisor(s): Muhammad Akbar
11:10 AM	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
11:20 AM	GO-087	COMPUTER AIDED MODELING OF BOEING 737-800 AIRCRAFT FOR
		AERODYNAMIC STUDY USING SOLIDWORKS SOFTWARE
		Md Mashiur Rahman*. Mechanical and Manufacturing Engineering, College of
		Engineering. Advisor(s): Muhammad Akbar
11:30 AM	GO-102	REINFORCEMENT LEARNING BASED SMART GRID CONTROL OF AN
		8MVA MICROGRID OPERATED IN GRID TIED AND ISLAND MODES
		Richard Wiencek*. Electrical and Computer Engineering, College of Engineering.
		Advisor(s): Sagnika Ghosh
11:40 AM	GO-103	ASSESSING RAILROAD CROSSING SAFETY: A MACHINE LEARNING
		APPROACH
		Sandeep Bist*. Civil and Architectural Engineering, College of Engineering. Advisor(s):
		Deo Chimba
11:50 AM	GO-107	DEVELOPING TRAFFIC VOLUME (AADT) PREDICTION ALGORITHM
		USING KNN
		Subash Gupta*. Civil and Architectural Engineering, College of Engineering.
		Advisor(s): Deo Chimba
1:00 PM	UO-012	AERODYNAMIC STUDY OF BOEING 737-800 WITH DISTRIBUTED PROPULSION SYSTEM
		Avraz Tovi*, Mohammed Alneamah*. Mechanical and Manufacturing Engineering,
		College of Engineering. Advisor(s): Muhammad Akbar
Afternoon Ses.	sion Begins	
1:10 PM	UO-013	APPLICATION OF FLUID POWER TO DRIVE VEHICLES
		Anthony Wheeler*, Kaylen Essix*. Mechanical and Manufacturing Engineering,
		College of Engineering. Advisor(s): Mohammad Habibi
1:20 PM	UO-035	A LITERATURE SURVEY ON AERODYNAMICS AROUND AN AIRCRAFT
		Donovan Davis*. Mechanical and Manufacturing Engineering, College of Engineering.
		Advisor(s): Muhammad Akbar
1:40 PM	UO-066	PROTOTYPING OF AN AUTONOMOUS MAZE EXPLORATION AND
		OPTIMAL PATH PLANNING ROBOT
		Kamren James*, Mikayla Lewis*. Mechanical and Manufacturing Engineering, College
		of Engineering. Advisor(s): Mohammad Habibi
1:50 PM	UO-123	IDENTIFYING KEY INFLUENCERS OF ACCIDENTS AT RAILROAD-
		HIGHWAY CROSSINGS: A TENNESSEE CASE STUDY
		Zaria Bullard*. Civil and Architectural Engineering, College of Engineering. Advisor(s):
		Deo Chimba
2:00 PM	UO-124	COMPUTATIONAL FLUID DYNAMICS (CFD) STUDY OF BOEING 737-800
		PROPULSION SYSTEM
		Zackee Doskey*, Markel Belcher*. Mechanical and Manufacturing Engineering,
		College of Engineering. Advisor(s): Muhammad Akbar
		*Denotes Presenters

GRADUATI	E AND UNDE	RGRADUATE POSTER PRESENTATIONS - 1ST FLOOR HALLWAY
9:00 AM - 12:00 PM	GP-015	HYDROGEL STABILIZATION OF CONSTRUCTION AND DEMOLITION (C&D) WASTE WITH HIGH FINES CONTENT: ENHANCING MECHANICAL BEHAVIOR AND ENVIRONMENTAL COMPATIBILITY
		Beatrice Magombana*, Cescar Kangogo, Dorcas Machimu. <i>Civil and Architectural Engineering</i> , College of Engineering. Advisor(s): Lin Li, Shihui Liu
9:00 AM -	GP-027	EVALUATION OF GREEN INFRASTRUCTURE TO MITIGATE INCREASED
12:00 PM		STORMWATER VOLUMES IN DISADVANTAGED COMMUNITIES
		Cescar Kangogo*, Andrew Mikhaeil*. Civil and Architectural Engineering, College of
		Engineering. Advisor(s): Andrea Gardiner
9:00 AM -	GP-042	NICKEL FOAM AND CARBON FIBER AS CURRENT COLLECTOR FOR
12:00 PM		ALKALINE NICKEL-IRON RECHARGEABLE CEMENT-BASED BATTERIES
		Dandan Yin*. Civil and Architectural Engineering, College of Engineering. Advisor(s):
0.00.434		Shihui Liu, Liqiang Yin, Lin Li
9:00 AM -	GP-058	COLLISION PREDICTION AT RHCS: INSIGHTS FROM TENNESSEE'S TRAFFIC DATA
12:00 PM		
		Jeannine Mbabazi*. <i>Civil and Architectural Engineering</i> , College of Engineering. Advisor(s): Deo Chimba
9:00 AM -	GP-062	FABRICATION OF ANTIBODY-LOADED MICROPARTICLES FOR
9.00 AM - 12:00 PM	GF-002	SUSTAINED-RELEASE IMMUNOTHERAPY OF OVARIAN CANCER
12.00 FM		Karla Robles*. <i>TIGER Institute</i> , College of Engineering. Advisor(s): Richard Mu, Todd
		Giorgio
9:00 AM -	GP-080	INVESTIGATION OF PHOTODEGRADATION OF THIAMETHOXAM AND
12:00 PM		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
9:00 AM -	GP-084	LEVERAGING ADVANCED DATA TO DEVELOP AN AI MODEL
12:00 PM		DELIVERING MULTIMODAL SAFETY
		Md Atiqur Rahman Mallick*. <i>Electrical and Computer Engineering</i> , College of
	~~	Engineering. Advisor(s): Kamrul Hasan
9:00 AM -	GP-115	ROBUST PRIVATE AI FRAMEWORK USING FEDERATED LEARNING AND
12:00 PM		HOMOMORPHIC ENCRYPTION FOR ELECTRIC UTILITY INFRASTRUCTURE DEFECT DETECTION
		Tupac Moseley*. <i>Electrical and Computer Engineering</i> , College of Engineering.
		Advisor(s): Kamrul Hasan
9:00 AM -	UP-119	BGP ATTACK AND PROTECTION EMULATION USING THE SEED
12:00 PM	01-117	INTERNET EMULATOR
12.001101		Walker Williams*. Electrical and Computer Engineering, College of Engineering.
		Advisor(s): Kamrul Hasan
9:00 AM -	UP-125	PREDICTING AND MITIGATING CYBER THREATS ON URBAN AIR
12:00 PM		MOBILITY THROUGH REINFORCEMENT LEARNING
		Zeinab Elkhatib*. Electrical and Computer Engineering, College of Engineering.
		Advisor(s): Kamrul Hasan

WEDNESDAY, MARCH 27, 2024

College of Health Sciences Day

GRADUATE ORAL PRESENTATIONS - RSP 163

1:00 PM	GO-043	CASPER ASSESSMENT INTEGRATION: FOSTERING DIVERSITY IN
		TENNESSEE STATE UNIVERSITY'S DOCTORATE OF PHYSICAL THERAPY
		PROGRAM ADMISSIONS
		Erin Cannon*, Nhadya Cambridge*. Physical Therapy, College of Health Sciences.
		Advisor(s): Richard Clark, David Lehman.
1:10 PM	GO-051	CRITICAL GEOGRAPHY AND THE SPATIAL NATURE OF RACE
		Gionni Carr*, Kendra 'Bassett. Education Leadership, College of Education.
		Advisor(s): Rajah Smart
1:20 PM	GO-067	MEETING THE CHALLENGE: EVALUATING TENNESSEE'S
		PREPAREDNESS FOR INCREASED DEMAND IN PELVIC HEALTH
		Kariya Jennings*, Princesse Hawkins. Physical Therapy, College of Health Sciences.
		Advisor(s): Marsha Bowman
1:40 PM	GO-021	HABITAT USE AND STATUS OF THE PYGMY RATTLESNAKE (SISTRURUS
		MILIARIUS) IN TENNESSEE
		Carlin Frost*, Jesse Eaker. Agricultural and Environmental Sciences, College of
		Agriculture. Advisor(s): William Sutton, Matthew Grisnik

GRADUATE AND UNDERGRADUATE POSTER PRESENTATIONS - 1ST AND 2ND FLOOR HALLWAYS

1:00 PM -	GP-024	THE ROLE OF PROTEIN INTAKE AND EXERCISE ON MUSCLE STRENGTH
4:00 PM		IN OLDER ADULTS WITH SARCOPENIA
		Christian Haynes*, Jack Johnston. Physical Therapy, College of Health Sciences.
		Advisor(s): Derek Charles
1:00 PM -	GP-029	PHYSICAL THERAPY'S ROLE IN A MULTIDISCIPLINARY TEAM FOR
4:00 PM		PREVENTION OF COMORBIDITIES IN PATIENTS WITH PTSD-
		ASSOCIATED CHRONIC PAIN
		Cassandra Zaino*, Jennifer Bauer. Physical Therapy, College of Health Sciences.
		Advisor(s): Richard Clark
1:00 PM -	GP-030	HOW DOES SELF-REFLECTION AND REVIEW IMPACT PHYSICAL
4:00 PM		THERAPY STUDENTS' CONFIDENCE DURING AN OBJECTIVE
		STRUCTURED CLINICAL EXAMINATION (OSCE)?
		Destiny Akinnagbe* Physical Therapy, College of Health Sciences. Advisor(s):
		Deborah Edmondson, Marsha Bowman
1:00 PM -	GP-041	EARLY SPORTS SPECIALIZATION AND RISK OF INJURY
4:00 PM		Destiny Tusie*, Novalee Feichko. Physical Therapy, College of Health Sciences.
		Advisor(s): Richard Clark
1:00 PM -	GP-046	THE ROLE OF MACHINE AND FREE WEIGHT TRAINING FOR OLDER
4:00 PM		ADULTS: A SYSTEMATIC REVIEW
		Garrison Benner*, Wade Denison. Physical Therapy, College of Health Sciences.
		Advisor(s): Marsha Bowman
1:00 PM -	GP-061	TREATING CHILDREN WITH HEARING LOSS: ASSESSING COMFORT
4:00 PM		LEVELS IN TENNESSEE STATE UNIVERSITY SLP GRADUATE STUDENTS
		Jason Watkins*. Speech Pathology and Audiology, College of Health Sciences.
		Advisor(s): Danielle Watson

COMMUNITY PARTNERSHIP Korab Idrizi*, Khem Plata. Center for Prevention Research, Research and Sponsored Programs. Advisor(s): Rebecca Selove, David Schlundt 1:00 PM - GP-068 FREHABILITATION FOR ATHLETES Kariya Jennings*, Dakota Hill. Physical Therapy, College of Health Sciences. Advisor(s): Deborah Edmondson 1:00 PM - GP-069 4:00 PM OPFEWOMAN SCHEMA AND PSYCHOLOGICAL DISTRESS AMONG AFRICAN-AMERICAN WOMEN OF DIFFERENT SOCIAL CLASSES Keyishi Peters*. Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM - GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON IDENTITY FACTORS Leah Kepley*. Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM - GP-077 4:00 PM GP-077 1:00 PM - GP-077 4:00 PM GP-077 1:00 PM - GP-075 4:00 PM GP-075 1:00 PM - GP-075 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 4:00 PM GENDER NON-BINARY UNDERGRADUATE STUDENTS AT HISTORICALLY Mallory Briggs*, Ricky Cantrell. Physical Therapy, College of Health Sciences. Advisor(s): Karen Smith 1:00 PM - GP-095 4:00 PM GENDER NON-BINARY UNDERGRADUATE STUDENTS AT HISTORICALLY BLACK COLLEGES AND UNIVERSITIES Olivia Jackson* Psychology, College	1:00 PM -	GP-065	COST EFFECTIVE-APPROACH TO QUALITATIVE ANALYSIS: ANALYSIS OF DATA FROM A STUDY OF THE DEVELOPMENT OF AN ACADEMIC-
Korab Idrizi*, Khem Plata. Center for Prevention Research , Research and Sponsored Programs. Advisor(s): Rebecca Sclove, David Schlundt 1:00 PM - GP-068 ENHANCING POST-INJURY REIHABLILTATION: A FOCUS ON PREHABILITATION FOR ATHLETES Kariya Jemings*, Dakota Hill. Physical Therapy , College of Health Sciences. Advisor(s): Deboral Edimondson 1:00 PM - GP-069 SUPERKOMAN SCHEMA AND PSYCHOLOGICAL DISTRESS AMONG 4:00 PM - GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON IDENTITY FACTORS Leah Kepley*. Psychology , College of Education. Advisor(s): Marie Hammond 1:00 PM - GP-077 PLAYEUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM 1:00 PM - GP-077 PLAYEUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM 1:00 PM - GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 4:00 PM 1:00 PM - GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 4:00 PM 1:00 PM - GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST 4:00 PM 1:00 PM - GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST 4:00 PM 1:00 PM - GP-101 EXAMINING TESTOSTEKONE AND STRENGTH TRAINING IN OLDER 4:00 PM 1:00 PM - GP-101 EXAMINING TESTOSTEKONE AND STRENGTH TRAINING IN OLDER 4:00 PM 1:00 PM -	4:00 PM		
Programs. Advisor(s): Rebeca Selove, David Schlundt 1:00 PM - GP-068 ENHANCING POST-INJURY REHABILITATION: A FOCUS ON 4:00 PM PREHABILITATION FOR ATILLETES Kariya Jemings*, Dakota Hill, Physical Therapy, College of Health Sciences. Advisor(s): Deborah Edmondson 1:00 PM - GP-069 SUPERWOMAN SCHEMA AND PSYCHOLOGICAL DISTRESS AMONG 4:00 PM GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON 1:00 PM - GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON 1:00 PM - GP-077 PLAYEUL AGING: UNISG & FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM GP-077 PLAYEUL AGING: UNISG & FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 4:00 PM GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 4:00 PM GP-096 EFFECTIVE SENSORY INTERVENTIONS IDENTISAT HISTORICALLY 8:00 PM GP-096 EFFECTIVE SENSORY INTERVENTIONS TO SUDERTS. 0/0 PM - GP-096 EFFECTIVE SENSORY INTERVENTIONS THEASTING FUNCASING TEST 4:00 PM GP-101 EXAMINNG TESTOSTERONE AND STREASTING TEST 4:00 PM GP-101 EXAMINNE TO STOTSTENO			
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4:00 PM PREHABILITATION FOR ATHLETES Kariya Jenning*, Dakota Hill, Physical Therapy, College of Health Sciences. Advisor(s): Deborah Edmondson 1:00 PM GP-069 SUPERWOMAN SCHEMA AND PSYCHOLOGICAL DISTRESS AMONG 4:00 PM GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON 1:00 PM - GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON 1:00 PM - GP-077 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM GP-077 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM GP-077 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM GP-075 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 1:00 PM - GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 1:00 PM - GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECRASING TEST 4:00 PM GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECRASING TEST 4:00 PM GP-011 EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER 4:00 PM GP-016 EFFECTIVE SENSORY INTERVENTION STUDENTS. 0 opulence Venton*, Kenna McPherson. Occupational Therapy, College of Health Sciences. Advisor(s): Ronald Barredo, David Lehman 1:00 PM - GP-1	1:00 PM -	GP-068	•
Kariya Jennings*, Dakota Hill. Physical Therapy, College of Health Sciences. Advisor(s): Deborah Edmondson 1:00 PM GP-069 SUPERWOMAN SCHEMA AND PSYCHOLOGICAL DISTRESS AMONG 4:00 PM AFRICAN-AMERICAN WOMEN OF DIFFERENT SOCIAL CLASSES Keyishi Peters*. Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON IDENTITY FACTORS Leah Kepley*. Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM GP-077 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL THERAPY WITH OLDER ADULTS: A SYSTEMATIC REVIEW Mallory Briggs*, Ricky Cantrell. Physical Therapy , College of Health Sciences. Advisor(s): Karen Smith 1:00 PM GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND GENDER NON-BINARY UNDERGRADUATE STUDENTS AT HISTORICALLY BLACK COLLEGES AND UNIVERSITIES 01via Jackson* Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST 4:00 PM ANXIETY IN HIGHER EDUCATION STUDENTS. Opulence Venton*, Kerna McPherson. Occupational Therapy, College of Health Sciences. Advisor(s): Laura Carpenter, Lauren Beard, Guinevere Bennett 1:00 PM - GP-101 EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER ADULT MALES: A SYSTEMATIC REVIEW ROY Etta*, Haniid Hadipour. Physical Therapy , College of Health Sciences. Advisor(s): Rohaid Lehman 1:00 PM - GP-101		GI 000	
Advisor(s): Deborah Edmondson 1:00 PM - GP-069 SUPERWOMAN SCHEMA AND PSYCHOLOGICAL DISTRESS AMONG 4:00 PM - GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON 1:00 PM - GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON 1:00 PM - GP-077 PLAYFUL ACING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM - GP-077 PLAYFUL ACING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM - GP-075 PLAYFUL ACING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM - GP-076 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 4:00 PM - GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 4:00 PM - GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST 4:00 PM - GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST 4:00 PM - GP-101 EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER 4:00 PM - GP-101 EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER 4:00 PM - GP-117 EPIGENETICS AND PHYSICAL THERAPY: APPLYING THE MECHANISMS 00 PM - GP-101 EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER 1:00 PM - GP-117 EPIGENETICS AND PH	1.001101		Kariya Jennings*, Dakota Hill. Physical Therapy, College of Health Sciences.
4:00 PM AFRICAN-AMERICAN WOMEN OF DIFFERENT SOCIAL CLASSES Keyishi Peters*. Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM - GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON IDENTITY FACTORS Leah Kepley*. Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM - GP-077 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL THERAPY WITH OLDER ADULTS: A SYSTEMATIC REVIEW Mallory Briggs*, Ricky Cantrell. Physical Therapy, College of Health Sciences. Advisor(s): Karen Smith 1:00 PM - GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND GENDER NON-BINARY UNDERGRADUATE STUDENTS AT HISTORICALLY BLACK COLLEGES AND UNIVERSITIES Olivia Jackson* Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM - GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST ANNIETY IN HIGHER EDUCATION STUDENTS. Opulence Venton*, Kenna McPherson. Occupational Therapy, College of Health Sciences. Advisor(s): Laura Carpenter, Lauren Beard, Guinevere Bennett 1:00 PM - 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): Raria Barredo, David Lehman 1:00 PM - GP-117 EPIGENETICS AND PHYSICAL THERAPY: APPLYING THE MECHANISMS OF EPIGENETICS TO PRACTICE AS PREVENTATIVE HEALTH MEASURES Ulani Robinson*, Erika Porter. Physical Therapy, College of Health Sciences. Advisor(s): Patricia King 1:00 PM - UP-064 THE GAME CHANGER: A CASE FOR ACADEMIC ESPORTS AS A STRATEGIC TOOL FOR STU			
Hoo PM Keyishi Peters*. Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM GP-074 GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON 1:00 PM GP-077 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL 1:00 PM GP-077 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM GP-077 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM GP-075 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM GP-095 AN EVALUATION OF ATTITUBES TOWARDS TRANSGENDER AND 4:00 PM GP-095 AN EVALUATION OF ATTITUBES TOWARDS TRANSGENDER AND 4:00 PM GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST 4:00 PM GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST 4:00 PM GP-101 EXAMINING TESTOSTERONE AND STRENGETH TRAINING IN OLDER 4:00 PM GP-101 EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER 4:00 PM GP-101 EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER 4:00 PM GP-101 EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER 4:00 PM GP-101 EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER 4:00 PM	1:00 PM -	GP-069	SUPERWOMAN SCHEMA AND PSYCHOLOGICAL DISTRESS AMONG
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 4:00 PM IDENTITY FACTORS Leah Kepley*, Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM - GP-07 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL THERAPY WITH OLDER ADULTS: A SYSTEMATIC REVIEW Mallory Briggs*, Ricky Cantrell. Physical Therapy, College of Health Sciences. Advisor(s): Karen Smith 1:00 PM - GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 			Keyishi Peters*. Psychology, College of Education. Advisor(s): Marie Hammond
Leah Kepley*. Psychology , College of Education. Advisor(s): Marie Hammond 1:00 PM - GP-077 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL 4:00 PM THERAPY WITH OLDER ADULTS: A SYSTEMATIC REVIEW Mallory Briggs*, Ricky Cantrell. Physical Therapy , College of Health Sciences. Advisor(s): Karen Smith 1:00 PM - GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND 4:00 PM GENDER NON-BINARY UNDERGRADUATE STUDENTS AT HISTORICALLY BLACK COLLEGES AND UNIVERSITIES Olivia Jackson* Psychology , College of Education. Advisor(s): Marie Hammond 1:00 PM - GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST 4:00 PM ANXIETY IN HIGHER EDUCATION STUDENTS. Opulence Venton*, Kenna McPherson. Occupational Therapy , College of Health Sciences. Advisor(s): Laura Carpenter, Lauren Beard, Guinevere Bennett 1:00 PM - GP-101 EXAMINING TESTOSTERONE AND STRENGTH TRAINING IN OLDER 4:00 PM ADULT MALES: A SYSTEMATIC REVIEW Roy Etta*, Hamid Hadipour. Physical Therapy , College of Health Sciences. Advisor(s): Ronald Barredo, David Lehman 1:00 PM - GP-117 EPIGENETICS AND PHYSICAL THERAPY: APPLYING THE MECHANISMS OF EPIGENETICS TO PRACTICE AS PREVENTATIVE HEALTH MEASURES Ulani Robinson*, Erika Porter. Physical Therapy , College of Health Sciences. Advisor(s): Patricia King	1:00 PM -	GP-074	GRIEF IN UNDERGRADUATE POPULATIONS: EXPRESSION BASED ON
1:00 PM GP-077 PLAYFUL AGING: USING A FUNCTIONAL APPROACH TO PHYSICAL THERAPY WITH OLDER ADULTS: A SYSTEMATIC REVIEW Mallory Briggs*, Ricky Cantrell. Physical Therapy , College of Health Sciences. Advisor(s): Karen Smith 1:00 PM GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND GENDER NON-BINARY UNDERGRADUATE STUDENTS AT HISTORICALLY BLACK COLLEGES AND UNIVERSITIES Olivia Jackson* Psychology. College of Education. Advisor(s): Marie Hammond 1:00 PM GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST ANXIETY IN HIGHER EDUCATION STUDENTS. Opulence Venton*, Kenna McPherson. Occupational Therapy , College of Health Sciences. Advisor(s): Laura Carpenter, Lauren Beard, Guinevere Bennett 1:00 PM 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 1:00 PM GP-117 EPIGENETICS AND PHYSICAL THERAPY: APPLYING THE MECHANISMS OF EPIGENETICS TO PRACTICE AS PREVENTATIVE HEALTH MEASURES Ulani Robinson*, Erika Porter. Physical Therapy , College of Health Sciences. Advisor(s): Patricia King 1:00 PM UP-064 THE GAME CHANGER: A CASE FOR ACADEMIC ESPORTS AS A STRATEGIC TOOL FOR STUDENT ENGAGEMENT AND SUCCESS AT TENNESSEE STATE UNIVERSITY Kiara Davis*. Teaching and Learning , College of Education. Advisor(s): Robert O'Keefe Hassell 1:00 PM UP-078 BEYOND TEXTBOOKS: AI-POWERED IMMERSIVE LEARNING Marcus Horton*. Teaching and Learning , College of Education. Advisor(s): Robert O'Keefe Hassell 1:00 PM </td <td>4:00 PM</td> <td></td> <td>IDENTITY FACTORS</td>	4:00 PM		IDENTITY FACTORS
 4:00 PM THERAPY WITH OLDER ADULTS: A SYSTEMATIC REVIEW Mallory Briggs*, Ricky Cantrell. Physical Therapy, College of Health Sciences. Advisor(s): Karen Smith 1:00 PM - GP-095 AN EVALUATION OF ATTITUDES TOWARDS TRANSGENDER AND GENDER NON-BINARY UNDERGRADUATE STUDENTS AT HISTORICALLY BLACK COLLEGES AND UNIVERSITIES Olivia Jackson* Psychology, College of Education. Advisor(s): Marie Hammond 1:00 PM - GP-096 EFFECTIVE SENSORY INTERVENTIONS FOR DECREASING TEST ANNIETY IN HIGHER EDUCATION STUDENTS. Opulence Venton*, Kenna McPherson. Occupational Therapy, College of Health Sciences. Advisor(s): Laura Carpenter, Lauren Beard, Guinevere Bennett 1:00 PM - GP-101 EXAMINING TESTOSTERONE AND STROGTH TRAINING IN OLDER ADULT MALES: A SYSTEMATIC REVIEW Roy Etta*, Hamid Hadipour. Physical Therapy, College of Health Sciences. Advisor(s): Ronald Barredo, David Lehman 1:00 PM - GP-117 EPIGENETICS AND PHYSICAL THERAPY: APPLYING THE MECHANISMS OF EPIGENETICS AND PHYSICAL THERAPY: APPLYING THE MECHANISMS Ulani Robinson*, Erika Porter. Physical Therapy, College of Health Sciences. Advisor(s): Patricia King 1:00 PM - UP-064 THE GAME CHANGER: A CASE FOR ACADEMIC ESPORTS AS A STRATEGIC TOOL FOR STUDENT ENGAGEMENT AND SUCCESS AT TENNESSEE STATE UNIVERSITY Kiara Davis*. Teaching and Learning, College of Education. Advisor(s): Robert OKeefe Hassell 1:00 PM - UP-078 BEVOND TEXTBOOKS: AI-POWERED IMMERSIVE LEARNING EXPERIENCES & AMPLIFYING STUDENT LEARNING Marcus Horton*. Teaching and Learning, College of Education. Advisor(s): Robert OKeefe Hassell 1:00 PM - UP-004 MEDIAN CABLE BARRIERS' ROLE IN CRASH REDUCTION IN TENNESSEE 4:00 PM 			Leah Kepley*. Psychology, College of Education. Advisor(s): Marie Hammond
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Kiara Davis*. Teaching and Learning , College of Education. Advisor(s): Robert O'Keefe Hassell 1:00 PM - UP-078 BEYOND TEXTBOOKS: AI-POWERED IMMERSIVE LEARNING EXPERIENCES & AMPLIFYING STUDENT LEARNING Marcus Horton*. Teaching and Learning , College of Education. Advisor(s): Robert O'Keefe Hassell 1:00 PM - UP-004 MEDIAN CABLE BARRIERS' ROLE IN CRASH REDUCTION IN TENNESSEE 4:00 PM Aaron Lamson*. Civil and Architectural Engineering , College of Engineering.	4:00 PM		
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Marcus Horton*. Teaching and Learning, College of Education. Advisor(s): Robert O'Keefe Hassell 1:00 PM - UP-004 4:00 PM MEDIAN CABLE BARRIERS' ROLE IN CRASH REDUCTION IN TENNESSEE Aaron Lamson*. Civil and Architectural Engineering, College of Engineering.		UP-0/8	
O'Keefe Hassell 1:00 PM - UP-004 MEDIAN CABLE BARRIERS' ROLE IN CRASH REDUCTION IN TENNESSEE 4:00 PM Aaron Lamson*. Civil and Architectural Engineering, College of Engineering.	4:00 PM		
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4:00 PM Aaron Lamson*. <i>Civil and Architectural Engineering</i> , College of Engineering.	1:00 PM -	UP-004	
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1:00 PM - GP-109 4:00 PM

MONITORING HERPETOFAUNA AND OPHIDIOMYCES OPHIDIICOLA PREVALENCE IN LONGLEAF PINE FOREST RESTORATION STANDS IN BANKHEAD NATIONAL FOREST

Samuel Robinson*, Rachel Brubaker. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): William Sutton, Donald Walker

THURSDAY, MARCH 28, 2024

COLLEGE OF LIFE AND PHYSICAL SCIENCES DAY

GRADUATE AND UNDERGRADUATE ORAL PRESENTATIONS - RSP 163

9:00 AM	GO-034	"ELUCIDATING THE ROLE OF SFRP2 IN MODULATING ORGAN
		Delany Bradford*. Biological Sciences, College of Life and Physical Sciences.
		Advisor(s): Sarika Saraswati, Kim Cooney
9:10 AM	GO-076	HIGH SALT DIET-INDUCED TUMOR INITIATING STEM CELLS MEDIATE
		BREAST CANCER PROGRESSION
		Lisa Tucker*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):
		Venkataswarup Tiriveedhi
9:20 AM	GO-116	CRITICAL ROLE OF DEFENSINS IN RESPIRATORY VIRAL INFECTION
		INDUCED BREAST CANCER PROGRESSION
		Umer Ali*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):
		Venkataswarup Tiriveedhi
9:30 AM	UO-017	NEW CROSS-COUPLING PROCESS OF MAKING CHOLESTEROL ESTERS
		Brooklyn Phillips*. Chemistry, College of Life and Physical Sciences. Advisor(s):
		Mohammad Al-Masum
9:40 AM	UO-023	WNT SIGNALING INHIBITION PROMOTES WOUND HEALING AND
		INHIBITS FIBROSIS IN CHRONIC WOUNDS
		Camille Haskins*. Biological Sciences, College of Life and Physical Sciences.
		Advisor(s): Sarika Saraswati, Hannah Barge, Dina Hassan, MD
9:50 AM	GO-007	IMPACT OF NITROGEN FERTILIZER, MANAGEMENT PRACTICES ON
		YIELD-SCALED NITROUS OXIDE EMISSION FROM CORN AND SOYABEAN
		AGRI-FIELD: A META-ANALYSIS
		Avedananda Ray*. Biological Sciences, College of Life and Physical Sciences.
		Advisor(s): Dafeng Hui

GRADUATE AND UNDERGRADUATE POSTER PRESENTATIONS - 1ST AND 2ND FLOOR HALLWAYS

9:00 AM -	GP-011	TOLL-LIKE RECEPTOR 4 INVOLVEMENT IN PENTACHLOROPHENOL AND DIBUTYLTIN INDUCED STIMULATION OF IL-1B AND IL-6 IN HUMAN
12:00 PM		IMMUNE CELLS
		Aleshia Seaton-Terry*, Zinia Hunter. Chemistry, College of Life and Physical Sciences.
		Advisor(s): Margaret Whalen
9:00 AM -	GP-031	TRIBUTYLTIN AND DIBUTYLTIN STIMULATION OF TUMOR NECROSIS
12:00 PM		FACTOR A EXPRESSION IN HUMAN IMMUNE CELLS: ROLE OF TOLL-
		LIKE RECEPTOR 4
		Latoya Daniel*, Aleshia Seaton-Terry, Meaghan Lewis. Chemistry, College of Life and
		Physical Sciences. Advisor(s): Margaret Whalen
9:00 AM -	GP-052	EFFECTS OF GLOBAL WARMING AND ELEVATED CO2 ON PEATLAND
12:00 PM		ECOSYSTEM PRODUCTIVITY AND GREENHOUSE GAS EMISSIONS: A
		MODELING STUDY
		Jaekedah Christian*. Biological Sciences, College of Life and Physical Sciences.
		Advisor(s): Dafeng Hui
9:00 AM -	GP-073	AN EVALUATION OF META-ANALYSES OF GREENHOUSE GAS
12:00 PM		EMISSIONS AND CROP YIELD UNDER CONSERVATION TILLAGE
		Lovish Kasrija*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):
		Dafeng Hui

9:00 AM - 12:00 PM	GP-082	REGIOSELECTIVE N-ALLYLATION AND C-ALLYLATION BY PD- CATALYZED CROSS-COUPLING OF INDOLE WITH POTASSIUM ALLYLTRIFLUOROBORATE
		Milton Kumar Kundu*. <i>Chemistry</i> , College of Life and Physical Sciences. Advisor(s): Mohammad Al-Masum
9:00 AM - 12:00 PM	GP-088	PALLADIUM-CATALYZED MICROWAVE IRRADIATED CROSS-COUPLING OF CARBOXYLIC ACIDS AND AMINOETHANOLS
		Md Shahin Reza*, Milton Kumar Kundu*. <i>Chemistry</i> , College of Life and Physical Sciences. Advisor(s): Mohammmad Al-Masum
9:00 AM -	GP-120	TOLL-LIKE RECEPTORS IN THE MECHANISM OF
12:00 PM	01-120	HEXABROMOCYCLODODECANE-INDUCED PRODUCTION OF PRO-
12.00 1 101		INFLAMMATORY CYTOKINES, IL-1β, IL-6, AND TNF-α
		Wenjun Zhu*, April Falconer-Turner. Chemistry, College of Life and Physical Sciences.
		Advisor(s): Margaret Whalen
9:00 AM -	UP-002	INVESTIGATING THE EFFECT OF A TRYPTOPHAN- AND ARGININE-RICH
12:00 PM		ANTIMICROBIAL PEPTIDE ON MULTIDRUG-RESISTANT BACTERIA
		Autumn Jones*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):
		Bashiyar Almarwani
9:00 AM -	UP-056	BEHAVIOR OF AMPK IN PC-3 CELLS, FOLLOWING EXPOSURE TO
12:00 PM		TRIPHENYL METHANOL DERIVATIVES (TPMS)
		Jamari Jemison*, Kennedy Wilbert*, Tayala Hizer*. <i>Chemistry</i> , College of Life and
0.00.434		Physical Sciences. Advisor(s): William Boadi
9:00 AM -	UP-057	SYNTHESIS OF POROUS MATERIAL CONTAINING REAR EARTH METAL
12:00 PM		Janasica Joyner*. Chemistry, College of Life and Physical Sciences. Advisor(s): Tasneem Siddiquee
9:00 AM -	UP-063	ANTIMICROBIAL, TRICLOSAN (TCS) INCREASES TRIHALOMETHANES IN
12:00 PM	01 005	TENNESSEE DRINKING WATER IN RESPONSE TO COVID-19
12.00 1 101		Katherine Hophan*. Biological Sciences, College of Life and Physical Sciences.
		Advisor(s): Wendy Wilburn, Sujata Guha, Dr. Ryan Beni
9:00 AM -	UP-075	BIOPHYSICAL STUDIES OF THE SHORT ANTIMICROBIAL PEPTIDE RIR
12:00 PM		INTERACTING WITH MEMBRANE-MIMETIC SYSTEMS
		Logan Strong*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):
		Bashiyar Almarwanti, Nsoki Phambu
9:00 AM -	UP-089	PHARMACOKINETIC INTERACTIONS BETWEEN QUININE AND
12:00 PM		VANCOMYCIN
		Miracle Walker*. <i>Biological Sciences</i> , College of Life and Physical Sciences.
0.00 AM	UP-099	Advisor(s): Bashiyar Almarwani THE ROLE OF TOLL-LIKE RECEPTOR 3 IN DIBUTYLTIN STIMULATION
9:00 AM -	UP-099	OF TUMOR NECROSIS FACTOR <i>α</i> PRODUCTION IN HUMAN IMMUNE
12:00 PM		Quinn Hudson*, Latoya Daniel. <i>Chemistry</i> , College of Life and Physical Sciences.
		Advisor(s): Margaret Whalen
9:00 AM -	UP-105	TRIBUTYLTIN-INDUCED PRODUCTION OF INTERLEUKIN-6 IN HUMAN
12:00 PM	01 105	IMMUNE CELLS REQUIRES MYD88 ACTIVATION
12.00 1 101		Sophia Fisher*, Meaghan Lewis. Chemistry, College of Life and Physical Sciences.
		Advisor(s): Margaret Whalen
9:00 AM -	UP-112	EVALUATING MACROPHAGE METABOLISM AND POLARIZATION IN
12:00 PM		LEAN AND OBESE MICE FOLLOWING RADIATION THERAPY
		Tatiana Eason*. Chemistry, College of Life and Physical Sciences. Advisor(s): Margaret
		Whalen, Kevin Corn, Marjan Rafat

9:00 AM -	UP-122	THE ROLE OF TOLL-LIKE RECEPTORS 3, 4, AND 8 IN TRIBUTYLTIN
12:00 PM		STIMULATION OF TUMOR NECROSIS FACTOR a PRODUCTION BY
		HUMAN IMMUNE CELLS
		Meaghan Lewis*, Sophia Fisher. Chemistry, College of Life and Physical Sciences.
		Advisor(s): Margaret Whalen
9:00 AM -	UP-127	TOLL-LIKE RECEPTOR 3 IS INVOLVED IN DIBUTYLTIN STIMULATION
12:00 PM		OF INTERLEUKIN-6 PRODUCTION IN HUMAN IMMUNE CELLS.
		Zinia Hunter*, Aleshia Seaton-Terry. Chemistry, College of Life and Physical Sciences.
		Advisor(s): Margaret Whalen