ORAL PRESENTATION - MONDAY, MARCH 28, 2022

GRADUATE - AGRICULTURAL SCIENCES - SESSION 1 (G-AGSCI-1)

Presentations from 9:00 AM - 12:00 PM

9:00 AM	A102	A PRELIMINARY BREED EVALUATION OF SAVANNA-SIRED DOE PERFORMANCE COMPARED WITH KIKO-SIRED AND SPANISH-SIRED DOES IN A MEAT GOAT HERD.
		Megan Goolsby*. <i>Institute for Agricultural Research (IAgR)</i> , College of Agriculture. Advisor(s): Richard Browning, Emily Hayes
9:20 AM	A062	SURVIVAL AND MOVEMENT PATTERNS OF REINTRODUCED ZOO-RAISED
		EASTERN HELLBENDERS
		Marley Machara*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): William Sutton
9:40 AM	A093	THE EFFECT OF EARLY FEEDING OF COPROCOCCUS EUTACTUS ON GROWTH
		PERFORMANCE OF GUINEA FOWL
		Morgan Roberts*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Samuel Nahashon, Thyneice Taylor
10:00 AM	A100	
		VEXANS USING UV-C LED IRRADIATION
		Bhawana Ghimire*. Otis L. Floyd Research Center, College of Agriculture. Advisor(s): Fulya
		Baysal-Gurel, Ankit Patras, Brahmaiah Pendyala
10:20 AM	A056	BIOCHEMICAL ANALYSIS OF BACILLUS THURINGIENSIS ISOLATE IMC 8 IN
		PLANT DISEASE PROTECTION AND GROWTH PROMOTION IN TOMATO.
		Jamille Robinson*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Margaret Mmbaga, R. Ravi
10.40.434		
10:40 AM		BREAK
11:00 AM	A020	PHOTOSYNTHETIC RESPONSES OF SWITCHGRASS TO CO2 CONCENTRATION AND LIGHT
		Christina Kieffer*, FNU Navneet, Joshua Borlay. Biological Sciences, College of Life and
		Physical Sciences. Advisor(s): Dafeng Hui
11:20 AM	A044	SINGLE CELL PROTEOMICS ANALYSIS OF TOMATO POLLEN MICROSPORE
		UNDER HEAT STRESS.
		Pyria Thapa*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Suping Zhou, Hui Li
11:40 AM	A051	GENETIC SEGREGATION DETECTED THROUGH SINGLE NUCLEOTIDE
		POLYMORPHISMS OF SWEET SORGHUM MICROSPORES
		Dilovan Yahya*, Aron Felts. Agricultural and Environmental Sciences, College of
		Agriculture. Advisor(s): Ahmad Aziz

Presentations	s from 9:	:00 AM - 12:00 PM
9:00 AM	A001	MACHINE LEARNING AND STATISTICAL EVALUATION OF HAZMAT RELATED CRASHES IN TENNESSEE
		Grace Mbiaji*, Ethiopine Choping*. <i>Civil and Architectural Engineering</i> , College of Engineering. Advisor(s): Deo Chimba
9:20 AM	A003	NASHVILLE METROPOLITAN AREA DURING MORNING RUSH HOURS
		Hellen Shita*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Deo Chimba
9:40 AM	A041	TYPES
		Satyaki Nan*. Computer Science, College of Engineering. Advisor(s): Swastik Brahma
10:00 AM	A054	EFFECT OF WIND INTENSITY, FORWARD SPEED, MINIMUM PRESSURE, AND TRACK CHANGE ON HURRICANE HARVEY STORM SURGE HINDCAST
		Madinah Shamsu*. <i>Mechanical and Manufacturing Engineering</i> , College of Engineering. Advisor(s): Muhammad Akbar
10:20 AM	A071	STRUCTURAL PHASE TRANSITION IN A SIMPLEX TENSEGRITY
		Armin Motadel*, Kehinde Omotayo*. <i>Civil and Architectural Engineering</i> , College of Engineering. Advisor(s): Ranganathan Parthasarathy
10:40 AM		BREAK
11:00 AM	A082	A COMPARISON OF COMSOL AND PYTHON MODELS FOR PVDF BASED SURFACE ACOUSTIC WAVE (SAW) SENSORS WITH SIMULATED RESULTS
		Omari Paul*, Akinwunmi Joaquim, Michael Ibezim, Dewayne Johnson, April Falconer. <i>Center of Excellence: Information Systems and Engineering Management</i> , Research and Sponsored Programs. Advisor(s): Richard Mu, Richard Mu, Frances Williams, Arend M. van der Zande
11:20 AM	A083	ELECTROSPRAY DEPOSITION OF POLYVINYLIDENE FLUORIDE (PVDF) MICROPARTICLES: IMPACT OF SOLVENTS AND FLOW RATE
		Akinwunmi Joaquim*, Omari Paul, Dewayne Johnson, Michael Ibezim, April falconer. <i>Center</i>
		of Excellence: Information Systems and Engineering Management, Research and Sponsored
		Programs. Advisor(s): Richard Mu, Richard Mu, Frances Williams, Nadya Mason
11:40 AM	A070	HOMOGENIZATION-BASED OPTIMIZATION OF LATTICE STRUCTURE USING GRANULAR MICROMECHANICS APPROACH
		Kehinde Omotayo*, Samal Aminashairi*. Civil and Architectural Engineering, College of

Engineering. Advisor(s): Ranganathan Parthasarathy

GRADUATE ENGINEERING and COMPUTER SCIENCE - SESSION 1 (G-ENGR)

*Denotes Presenters

ORAL PRESENTATION - MONDAY, MARCH 28, 2022

GRADUATE - AGRICULTURAL SCIENCES - SESSION 2 (G-AGSCI-2)

Presentation	s from 1:0	00 PM - 4:00 PM
1:00 PM	A024	SMALL SIGNALING PEPTIDES MEDIATE NODULATION AND NITROGEN ACQUISITION
		Divya Jain*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Sonali Roy, Suping Zhou, Ali Taheri, Lena Maria Muller, Xiaofei Wang
1:20 PM	A026	EFFECTS OF COOL SEASON COVER CROP ROOTS ON GERMINATION AND GROWTH OF TEST SPECIES ANNUAL RYEGRASS AND LETTUCE
		Grayson DeLay*. Otis L. Floyd Research Center, College of Agriculture. Advisor(s): Anthony Witcher
1:40 PM	A027	EARLY SEASON MONITORING OF DROUGHT INDUCED PHYSIOLOGICAL CHANGES OF FLOWERING DOGWOODS IN CONTAINER PRODUCTION SYSTEM
		Krishna Neupane*. <i>Otis L. Floyd Research Center</i> , College of Agriculture. Advisor(s): Fulya Baysal-Gurel, Anthony Witcher
2:00 PM	A028	EVALUATION OF FUNGICIDES AND BIOFUNGICIDES TO CONTROL PHYTOPHTHORA ROOT ROT AND RHIZOCTONIA ROOT ROT ON RED MAPLE Madhav Parajuli*. Otis L. Floyd Research Cente r, College of Agriculture. Advisor(s): Fulya
		Baysal-Gurel Baysal-Gurel
2:20 PM		BREAK
2:40 PM	A030	MANAGEMENT OF PHYTOPHTHORA ROOT ROT OF BOXWOOD USING BIOFUMIGANTS IN FIELD PRODUCTION
		Sandhya Neupane*. Otis L. Floyd Research Center, College of Agriculture. Advisor(s): Fulya Baysal-Gurel
3:00 PM	A033	IDENTIFICATION OF PROTEOMICS CHANGES ASSOCIATED WITH EPIGENETICS FOR ALUMINUM STRESS IN TOMATO
		Candice Haymon-Gresham*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture Advisor(s): Suping Zhou
3:20 PM	A045	PROTEOMICS ANALYSIS OF STRAWBERRY FRUITS EXPOSED TO ESSENTIAL OILS
		Kajol Pradhan*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Suping Zhou
3:40 PM	A042	EFFECT OF UV-C IRRADIATION ON SELECTED POLYPHENOLS AND VITAMINS IN A HIGHLY TURBID APPLE JUICE
		Anita Scales*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ankit Patras, Fur-chi Chen

GRADUATE - LIFE AND PHISICAL SCIENCES (G-LPSCI)

Presentations from 1:00 PM -3:40 PM

1:20 PM	A058	COLLECTION AND CONVERSION OF FOOD WASTE FOR VALUE-ADDED BIOPRODUCTS
		Phyllicia Hemphill*. <i>Biological Sciences</i> , College of Life and Physical Sciences. Advisor(s): Joshua OHair, Xiaofei Wang

1:40 PM	A025	HIGH PRESSURE PASTEURIZATION OF STAPHYLOCOCCUS AUREUS
		AUGMENTED WITH MILD HEAT AND NISIN NISIN
		Jyothi George*. Cooperative Extension, College of Agriculture. Advisor(s): Aliyar Fouladkhah
2:00 PM	A035	A NOVEL PROCESS OF Pd-CATALYZED CROSS-COUPLING OF ACYL HALIDES
		AND ARYLTRIFLUOROBORATES
		Mohammad Alsafwani*. Biological Sciences, College of Life and Physical Sciences.
		Advisor(s): Mohammad Al-masum
2:20 PM		BREAK
2:40 PM	A036	PALLADIUM-CATALYZED UNPRECEDENTED CROSS-COUPLING OF PHENOLS
		AND HALIDES FOR THE SYNTHESIS OF AROMATIC ETHERS
		Reem Albeshy*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):
		Mohammad Al-masum
3:00 PM	A037	PD-CATALYZED CROSS COUPLING OF PHTHALIC ANHYDRIDE AND
		ORGANOTRIFLUOROBORATES FOR THE DIRECT AROYLATION REACTIONS
		Grady Clopton*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):
3:20 PM	A101	EVALUATION AND DATA ANALYSIS OF SOL-GEL METHOD WITH ACIDS TO
		DETERMINE MOST EFFECTIVE SOL-GEL METHOD
		Aniska Ramsay*. Chemistry, College of Life and Physical Sciences. Advisor(s): Joshua Moore

PRESENTATION SCHEDULES

ORAL PRESENTATION - TUESDAY, MARCH 29, 2022

GRADUATE - AGRICULTURAL SCIENCES - SESSION 3 (G-AGSCI-3)

Presentations from 9:00 AM - 11:40 AM

9:00 AM	A055	EFFECT OF FOUR BACTERIAL ENDOPHYTES ON TOMATO BIOMASS PRODUCTION.
		Peter Eyegheleme*, Jamille Robinson. Agricultural and Environmental Science s, College of
		Agriculture. Advisor(s): Margaret Mmbaga, Daniel Demissie
9:20 AM	A063	IMPACT OF BOKASHI, PURPLE NON-SULFUR BACTERIA, AND COMPOST ON
		CLONALLY PROPAGATED CANNABIS SATIVA
		Nicholas Davies*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Emmanuel Omondi, Matthew Blair, Bharat Pokharel, Mitchell Richmond
9:40 AM	A064	POLLINATORS AND MONITORING OPTIONS FOR WINTER CANOLA (BRASSICA
		NAPUS L) IN TENNESSEE
		Manasarobar Bhattarai*, Taqdeer Gill. Agricultural and Environmental Sciences, College of
		Agriculture. Advisor(s): Jason de Koff, Firuz Yuldashev
10:00 AM	A066	SWEET SORGHUM BIOFUEL TRAITS: THE JOURNEY FROM SEED TO
		MICROSPORE
		Aron Felts*, Dilovan Yahya. Agricultural and Environmental Sciences, College of Agriculture
		Advisor(s): Ahmad Aziz
10:20 AM		BREAK

10:40 AM	A069	DO DAY-NEUTRAL STRAWBERRY PLANTS RESPOND DIFFERENTLY TO NITRATE (NO3) VERSUS AMMONIUM (NH4) FORMS OF NITROGEN? Sunil Gurung*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Dharma Pitchay
11:00 AM	A096	
		TECHNOLOGY TO INCREASE SEED PRODUCTION AND SUSTAINABLE
		VEGETABLE OIL YIELDS IN SOYBEAN
		Gabriel Carrasquillo Roque*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Christine Ondzighi-Assoume, Matthew W. Blair
11:20 AM	A095	UNRAVELING GENETIC AND BIOCHEMICAL MECHANISMS-INDUCED GROWTH-PROMOTING ENDOPHYTES INVOLVED IN CELL WALLS SYNTHESIS TO IMPROVE SORGHUM FOR SUSTAINABLE BIOENERGY SYSTEMS IN TENNESSEE Adam Traore*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Christine Ondzighi-Assoume, Margaret Mmbaga

GRADUATE - INTERDISCIPLINARY STUDIES (G-IDSTU)

Presentations from 9:00 AM - 10:20 AM

9:00 AM	A039	ASSEMENT OF ECONOMIC IMPACT OF COVID-19 ON AGRICULTURE AND FOOD SYSTEM IN TENNESSEE
		Kabirat Nasiru*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture. Advisor(s): Prabodh Illukpitiya
9:20 AM	A060	DOES TRAINING SOURCE AFFECT THE ADOPTION OF BEST MANAGEMENT
		PRACTICES OF INTEGRATED PEST MANAGEMENT IN SPECIALTY CROPS?
		FINDINGS FROM TENNESSEE.
		Purushottam Dhungana*. Agricultural and Environmental Sciences, College of Agriculture.
		Advisor(s): Aditya Khanal, Kaushalya G. Amarasekare
9:40 AM	A081	AGRITOURISM FOR SMALL FARMS: ASSESSING DEMAND AND SEASONALITY
		OF THE AGRITOURISM ATTRACTIONS ADOPTED BY FARM OPERATIONS IN
		TENNESSEE.
		Michael Crawford*, Purushottam Dhungana. Agricultural and Environmental Sciences, College
		of Agriculture. Advisor(s): Aditya Khanal
10:00 AM	A006	THE COMBINATION OF ISCHEMIC COMPRESSION AND EXERCISE FOR
		IMPROVING PAIN PRESSURE THRESHOLD, PAIN INTENSITY, AND FUNCTIONAL
		RANGE OF MOTION IN ACTIVE AND LATENT TRIGGER POINTS OF THE LOWER
		EXTREMITY
		Clarke Hyde*, Aya Melhem*, Sarah Lotshaw*, Joshua Wolfe* . <i>Physical Therapy</i> , College of
		Health Sciences. Advisor(s): Deborah Edmondson

*Denotes Presenters

ORAL PRESENTATION - TUESDAY, MARCH 29, 2022

Undergraduate - Engineering and Computer Science - Session 1 (U-ENGR-1)

Presenations from 1:00 PM - 2:40 PM

1:00 PM	A067	DESIGN OF A DUCTLESS HVAC SYSTEM WITH ERV FOR A RESIDENTIAL BUILDING IN ATLANTA, GEORGIA Kamal Kamel*, Sherif Kamel*. Mechanical and Manufacturing Engineering, College of
		Engineering. Advisor(s): Muhammad Akbar
1:20 PM	A002	ANALYZING HAZMAT INCIDENTS IN TENNESSEE AND US
		Anna Morrison*. <i>Civil and Architectural Engineering</i> , College of Engineering. Advisor(s): Deo Chimba
1:40 PM	A004	EVACUATION OF CAMPUS LIKE POPULATION DURING EMERGENCY
		Ethiopine Choping*. <i>Civil and Architectural Engineering</i> , College of Engineering. Advisor(s): Deo Chimba, Grace Mbiaji
2:00 PM	A038	EVALUATION OF OPERATIONAL DEFICIENCIES OF SIGNALIZED
		INTERSECTIONS AROUND TSU CAMPUS FOR EMERGENCE EVACUATION
		Diana Cortez*. Civil and Architectural Engineerin g, College of Engineering. Advisor(s): Deo
		Chimba
2:20 PM	A059	DESIGN OF PASSIVE FLOW SPLITTING MODULE FOR MICROFLUIDICS
		Tesfaye Segni*, Amyra Black, Amari Meddling. Mechanical and Manufacturing Engineering,

Undergraduate - Interdisciplinary Studies (U-idstu)

Presenations from 1:00 PM - 2:40 PM

1:00 PM	A061	DH PROJECT: WHITE SUPREMACY: THE REOCCURRING PATTERN OF RACISM, SOCIAL INEQUALITY, AND INJUSTICE IN AMERICA
		Terez Hill*. Sociology, College of Liberal Arts. Advisor(s): Edward Sanford
1:20 PM	A068	PERCEIVED IMPACT OF STRESSORS ON BLACK ADOLESCENT FEMALE STUDENTS IN CENTRAL ALABAMA DURING THE ONSET OF COVID-19
		Brittany Wiggins*. Sociology, College of Liberal Arts. Advisor(s): Roger Klomegah
2:20 PM	A009	STUDY OF THE REACTION CONDITIONS AFFECTING THE PHYSIC-CHEMICAL PROPERTIES OF MELANINS. Venise Govan*. <i>Biological Science</i> s, College of Life and Physical Sciences. Advisor(s): Koen Vercruysse

*Denotes Presenters

ORAL PRESENTATION - WEDNESDAY, MARCH 30, 2022

Undergraduate - Engineering and Computer Science - Session 2 (U-ENGR-2)

9:00 AM	A084	FABRICATION OF SOLID AND CORE-SHELL PVDF MICROPARTICLES VIA ELECTROSPRAY Dewayne Johnson*, Akinwunmi Joaquim, Omari Paul, Michael Ibezim, April Falconer. Center of Excellence: Information Systems and Engineering Management, Research and Sponsored Programs. Advisor(s): Richard Mu, Frances Williams, Nadya Mason
9:20 AM	A085	POLYVINYLIDENE FLUORIDE (PVDF) MICROFIBERS SYNTHESIZED USING THE
		HIGH VOLTAGE ELECTROSPINNING TECHNIQUE
		Michael Ibezim*, Omari Paul, Akinwunmi Joaquim, Dewayne Johnson, April Falconer. Center
		of Excellence: Information Systems and Engineering Management, Research and Sponsored
		Programs. Advisor(s): Richard Mu, Frances Williams, Nadya Mason
9:40 AM	A086	ALIGNED NANOFIBERS OF PVDF AND THEIR APPLICATIONS
		Antonio Moore*, Chibuikem Iheagwaram. Center of Excellence: Information Systems and
		Engineering Management, Research and Sponsored Programs. Advisor(s): Richard Mu,
		Virginia Lorenz, Eugene Collins, Akira Uedal
10:00 AM	A090	DESIGN OF A COAXIAL 3D PRINTING NOZZLE FOR DIRECT WRITE EPOXY RESINS
		Amairanny Espinosa*, Morgan Quates. Mechanical and Manufacturing Engineering, College of
		Engineering. Advisor(s): Landon Onyebueke, Lizhi Ouyang, Sitaram Aryal, Anne Munyasia
10.20 414	1.007	OPTIMIZATION OF MICROCHANNEL GEOMETRY FOR SYNTHESIS OF
10:20 AM	A097	POLYSTYRENE IN A MICROREACTOR USING COMSOL
		Christopher Buford*, Alexis Bell. <i>Mechanical and Manufacturing Engineering</i> , College of
		Engineering. Advisor(s): Landon Onyebueke, Lizhi Ouyang, Grady Clopton, Junqin Hou
		Engineering. Advisor(s). Landon Onycoucke, Eizin Odyang, Grady Ciopton, Junqin Hod
10:40 AM		BREAK
		DESIGN OF REGENERATIVE BRAKING CONTROL AND OPTIMIZING BATTERY
11:00 AM	A103	RECHARGING IN ELECTRIC VEHICLES
		Zhuri Winfree-Givens*, Maged Souryal*. Mechanical and Manufacturing Engineering, College
		of Engineering. Advisor(s): Mohammad Habibi

*Denotes Presenters

PRESENTATION SCHEDULES

POSTER PRESENTATION - WEDNESDAY, MARCH 30, 2022

Undergraduate - Engineering and Computer Science

Presenations from 1:00 PM -2:00 PM

1:00 PM A007 ANALYSIS OF FACTORS AFFECTING PEDESTRIAN AND BICYCLE CRASH FREQUENCY

Jose Portillo*. Civil and Architectural Engineering , College of Engineering. Advisor(s): Deo Chimba

1:15 PM	A008	USER EQUILIBRIUM ASSIGNMENT FOR FREIGHT TRUCK INTERMODAL CONNECTORS
		Jeannine Mbabazi*. <i>Civil and Architectural Engineering</i> , College of Engineering. Advisor(s): Deo Chimba
1:30 PM	A104	DYNAMIC VEHICLE CHARGING
		Christian Robertson*, Joshua Campbell, Branden Currie. Electrical and Computer Engineering,
		College of Engineering. Advisor(s): Sagnika Ghosh
1:45 PM	A105	DESIGN OF A SOLAR ENERGY SYSTEM WITH SMART CONTROLLER CAPABLE
		OF WEATHER PREDICTION AND ACTING AS A VIRTUAL POWER PLANT (VPP).
		Richard Wiencek*, Cameron Fagan. Electrical and Computer Engineering, College of
		Engineering. Advisor(s): Sagnika Ghosh

PRESENTATION SCHEDULES

POSTER PRESENTATIONS - THURSDAY, MARCH 31, 2022

GRADUATE - AGRICULTURAL SCIENCE (G-AGSCI)

Presentations from 9:00 AM – 12:15 PM

9:00 AM	A049	INFLUENCE OF SOIL AND FOLIAR APPLICATION OF FULVIC ACID ON YIELD			
		PARAMETERS OF ORGANICALLY GROWN BELL PEPPERS (CAPSICUM ANNUUM			
		L.) UNDER OPEN-FIELD CONDITIONS IN TENNESSEE			
		Pinkky Kanabar*. Agricultural and Environmental Sciences, College of Agriculture.			
		Advisor(s): Dilip Nandwani			
9:15 AM	A053	ENCAPSULATION OF CBD OIL USING NATURAL POLYMERS BY FREEZE			
		DRYING TO MODULATE GUT MICROBIOTA AND ENHANCE GUT HEALTH			
		Jerel Crew*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s):			
		Ying Wu			
9:30 AM	A089	SURFACE COMPLEXATION MECHANISM OF LACCASE ON HEMATITE: AN IN-			
		SITU ATR-FTIR STUDY			
		Avedananda Ray*. Agricultural and Environmental Sciences, College of Agriculture.			
		Advisor(s): Sudipta Rakshit			
9:45 AM	A091	EFFECTS OF MYCORRHIZAL NETWORK ON OVERSTORY TREE GROWTH IN			
		SOUTHEASTERN FORESTS			
		Rebekah Long*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s):			
		Bharat Pokharel			
10:00 AM	A029	EFFECT OF SOLITARY AND COMBINED USE OF COVER CROPS ON SOILBORNE			
		DISEASE SUPPRESSIVENESS IN WOODY ORNAMENTAL NURSERY PRODUCTION			
		SYSTEMS			
		Madhav Parajuli*, Milan Panth. Otis L. Floyd Research Center, College of Agriculture.			
		Advisor(s): Fulya Baysal-Gurel			
10:15 AM	A092	PHENOLOGY OF FLATHEADED BORER DEVELOPMENTAL STAGES IN RED			
		MAPLE NURSERY CROPS			
		Aubree Morrison*. Otis L. Floyd Research Center, College of Agriculture. Advisor(s): Jason			
		Oliver, Karla Addesso, Anthony Witcher, Cindy Perkovich, William Klingeman			

10:30 AM	A013	ANTIMICROBIAL TRICLOSAN (TCS) INCREASES PRODUCTION OF INTERLEUKIN 1 BETA (IL-1β) IN HUMAN IMMUNE CELLS			
		Wendy Wilburn*. <i>Biological Sciences</i> , College of Life and Physical Sciences. Advisor(s):			
		Margaret Whalen			
10.45 ANA		·			
10:45 AM		BREAK			
11:00 AM	A014	EFFECTS OF DIBUTYLTIN EXPOSURES ON TRANSLATION REGULATORY			
		FACTOR eIF4B IN HUMAN IMMUNE CELLS			
		Amanda Ruff*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):			
		Margaret Whalen			
11:15 AM	A019	HOW MUCH IS SOIL NITROUS OXIDE EMISSION REDUCED WITH BIOCHAR			
		APPLICATION? AN EVALUATION OF META-ANALYSES			
		FNU Navneet*, Christina Kieffer. <i>Biological Sciences</i> , College of Life and Physical Sciences.			
		Advisor(s): Dafeng Hui			
11:30 AM	A040	QUERCETIN ENHANCES THE ACTIVITY OF CYTOCHROME P450 3A4 (CYP3A4)			
		IN POOLED HUMAN LIVER MICROSOMES (HLMs)			
		Iman McCrary*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):			
		William Boadi			
11:45 AM	A048	EFFECTS OF DENSITY, VARIETY, AND THEIR INTERACTION ON MUNGBEAN			
		ECOPHYSIOLOGY AND YIELD			
		Jaekedah Christian*, Soroush Moghaddam, Aisha Touray, FNU Navneet, Christina Kieffer.			
		Biological Sciences, College of Life and Physical Sciences. Advisor(s): Dafeng Hui, Prabodh			
		Illukpitiya			
12:00 PM	A050	* ·			
		Roud Alamri*, Terrill Wakefield, Erin Clark. Biological Sciences, College of Life and Physical			
		Sciences. Advisor(s): Xiaofei Wang			
		between Tathoriton Thater Hanb			

PRESENTATION SCHEDULES

POSTER PRESENTATIONS - THURSDAY, MARCH 31, 2022

Graduate - Health Science - Session 1 (g-hsci-1)

Presentations from 9:00 AM – 12:00 PM

9:00 AM	A034	COMPARING THE ACCURACY OF THREE DIFFERENT TRACK APP IN COLLEGE STUDENT ATHLETE				
		Cortlin Scales*. Human Performance and Sport Sciences, College of Health Sciences.				
		Advisor(s): Yoseph Mamo				
9:15 AM	A099	THE EFFECT OF COMMUNITY-LEVEL POVERTY ON RATES OF TEENAGE				
		PREGNANCY				
		Nikayla Cobb*. Human Performance and Sport Sciences, College of Health Sciences.				
		Advisor(s): Poliala Dickson, Dr. James Heimdal				
10:00 AM	A073	EFFECTIVENESS OF AQUATIC THERAPY ON IMPROVING QUALITY OF LIFE				
		FOR GERIATRIC INDIVIDUALS POST-STROKE				
		LaDonna Caston*, Elley Allison, Christopher Beard, Elijah Jenkins, Julie Knapp. Occupational				
		Therapy, College of Health Sciences. Advisor(s): Lisa Porter				

10:30 AM	A075	CLINICIANS' PERCEPTIONS OF TREATMENT FOR SCHIZOPHRENIA: SENSORY-BASED THERAPY OR MEDICATION
		Sydney Hill*, Alexa Almond, Kelsie Moosmann, Sara Boggs. <i>Occupational Therapy</i> , College of Health Sciences. Advisor(s): Lisa Porter
11:00 AM	A076	EFFECTS OF CLASS-WIDE SENSORY-BASED INTERVENTION ON PEER ACCEPTANCE OF STUDENTS RECEIVING SUPPORT SERVICES Kelly Givens*, Amber Oliveri, Sarah Singleton. Occupational Therapy, College of Health Sciences. Advisor(s): Lisa Porter
11:15 AM	A077	COMPARING POSITIVE REINFORCEMENT AND SENSORY BASED APPROACH: PRODUCING POSITIVE CLASSROOM BEHAVIORS FOR CHILDREN WITH Jamia Pennington*, Sandra Dicks, Kayla Pendleton. Occupational Therapy, College of Health Sciences. Advisor(s): Lisa Porter

PRESENTATION SCHEDULES

POSTER PRESENTATIONS - THURSDAY, MARCH 31, 2022

GRADUATE - HEALTH SCIENCE - SESSION 2 (G-HSCI-2)

Presentations from 1:00 PM – 3:45 PM

1:00 PM	A098	A POLICY BRIEF ON THE CIVIL RIGHTS ACT OF 1964 IN THE PUBH 5110 CLASS				
		Kendra Yokley*. Public Health, Healthcare Administration and Health Sciences, College of				
		Health Sciences. Advisor(s): Elizabeth Brown				
1:15 PM	A005	IS THE USE OF ORAL CONTRACEPTIVE BENEFICIAL TO FEMALE ATHLETES IN				
		THE PREVENTION OF ANTERIOR CRUCIATE LIGAMENT INJURY?				
		Mia Faragalli*, Kara Taylor, Abi Welch, Edilberto Raynes. <i>Physical Therapy</i> , College of Health				
		Sciences. Advisor(s): Edilberto Raynes				
1:30 PM	A018	A SYSTEMATIC REVIEW ON THE EFFECTS OF MAXIMALLY CUSHIONED				
		RUNNING SHOES AND GROUND REACTION FORCES				
		Katlyn Council*, Dillon Douglass, Seth McGinnis, lukus wallace. <i>Physical Therapy</i> , College of				
		Health Sciences. Advisor(s): Derek Charles				
1:45 PM	A031	ARE NEW GRADUATE PHYSICAL THERAPISTS PREPARED TO TREAT PELVIC				
		DYSFUNCTION?				
		LeiLani Lee*, Dillon Douglas, Thomas Richard. <i>Physical Therapy</i> , College of Health Sciences.				
		Advisor(s): Marsha Bowman				
2:00 PM	A032	COMPARING THE EFFECT OF BLOOD FLOW RESTRICTION TRAINING IN				
		PEOPLE UNDER THE AGE OF 40 VERSUS OVER THE AGE OF 40 AND IN MALES				
		VERSUS FEMALES.				
		Scott Reaves*, Cathleen Kirkland, Patrick Oravetz, Richard Thomas. <i>Physical Therapy</i> , College				
		of Health Sciences. Advisor(s): Richard Clark				
2:15 PM	A046	A SYSTEMATIC REVIEW OF LITERATURE: THE REPORTED EFFICACY OF				
		AVAILABLE TREATMENT INTERVENTIONS FOR PEDIATRIC DAYTIME				
		URINARY INCONTINENCE - WITH A FOCUS ON GIGGLE INCONTINENCE				
		Stephanie Deines*, Jordon Greer, Ann Hajec, Sean Harper, Taylor Tolleson. <i>Physical Therapy</i> ,				
		College of Health Sciences. Advisor(s): Marsha Bowman				

2:30 PM	A057	BEST PRACTICES OF EMERGING INTERVENTIONS USED TO IMPROVE WALKING ABILITY IN ADULT ACUTE/SUBACUTE STROKE: A SYSTEMATIC	
		Matthew Black*, Casey Kennedy, Carlo Quintanilla, Andrew Sanderson, Derek Smith. Physical	
		Therapy, College of Health Sciences. Advisor(s): Karen Smith	
2:45 PM		BREAK	
3:00 PM	A078	USING EMOTIONAL INTELLIGENCE ASSESSMENT IN THE DOCTOR OF	
		PHYSICAL THERAPY (DPT) ADMISSIONS PROCESS	
		Christine Khalil*. Physical Therapy, College of Health Sciences. Advisor(s): David Lehman	
3:15 PM	A088	PHYSICAL THERAPY AND TRANSGENDER HEALTH	
		Beshoy Ibrahim*, Jessica Carlson, Greice de Sa, Nick Lauren, Ana Villalva. Physical Therapy,	
		College of Health Sciences. Advisor(s): David Lehman	
3:30 PM	A011	THE ROLE OF TLR4 IN PENTACHLOROPHENOL STIMULATION OF IL-1β	
		PRODUCTION IN HUMAN IMMUNE CELLS	
		Aleshia Seaton-Terry*. <i>Biological Sciences</i> , College of Life and Physical Sciences. Advisor(s):	
		Margaret Whalen	

PRESENTATION SCHEDULES

POSTER PRESENTATIONS - THURSDAY, MARCH 31, 2022

Undergraduate - Life and Physical Sciences

Presentations from 1:00 PM – 4:00 PM

1:00 PM	A094	IMPLEMENTING A TOBACCO USE PREVENTION MEDIA LITERACY PROGRAM: LESSONS LEARNED			
		Neriah Alexander*. <i>Center for Prevention Research (CPR)</i> , Research and Sponsored Programs. Advisor(s): Rebecca Selove			
1:15 PM	A022	REGIONAL ROSTROCAUDAL COMPARISON OF CALBINDIN AND CALRETININ			
		IN THE AUDITORY CORTEX			
		Rodney McCracken*. <i>Psychology</i> , College of Education. Advisor(s): Lisa de la Mothe			
1:30 PM	A010	STUDY OF THE REACTION CONDITIONS AFFECTING THE PHYSIC-CHEMICAL			
		PROPERTIES OF MELANINS.			
		Jaila Winford*. Biological Sciences, College of Life and Physical Sciences. Advisor(s): Koen			
		Vercruysse			
1:45 PM	A012	EFFECTS OF HEXABROMOCYCLODODECANE (HBCD) EXPOSURES ON			
		INTERLEUKIN 6 (IL-6) PRODUCTION IN HUMAN MONOCYTE-DEPLETED			
		PERIPHERAL BLOOD MONONUCLEAR CELLS (MD-PBMCs)			
		Kameron Brooks*, April Falconer-Turner. Biological Sciences, College of Life and Physical			
		Sciences. Advisor(s): Margaret Whalen			
2:00 PM	A015	LIPID PEROXIDES (LPs) AND GLUTATHIONE (GSH) IN POOLED LIVER			
		MICROSOMES (HLMs) FOLLOWING EXPOSURE TO FLAVONOIDS			
		Mohamed Mohamed*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):			
		William Boadi			

2:15 PM A01		LIPID PEROXIDES AND GLUTATHIONE LEVELS IN POOLED HUMAN LIVER		
		MICROSOMES (HLMs) FOLLOWING EXPOSURE TO QUERCETIN.		
		Walter Cannon*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):		
		William Boadi		
2:30 PM A017		PARTICIPATION OF TOLL-LIKE RECEPTORS IN TRIBUTYLTIN-INDUCED		
		INCREASES IN INTERLEUKIN 6 PRODUCTION BY HUMAN IMMUNE CELLS.		
		Toran Kirkland*, Aliyah Alcala. <i>Biological Sciences</i> , College of Life and Physical Sciences.		
		Advisor(s): Margaret Whalen		
2:45 PM		BREAK		
3:00 PM	A021	TOLL-LIKE RECEPTOR ACTIVATION IN TRIBUTYLTIN-INDUCED INCREASES IN		
		INTERLEUKIN 1B PRODUCTION BY HUMAN IMMUNE CELLS		
		Brooke Osborne*, Aliyah Alcala. <i>Biological Sciences</i> , College of Life and Physical Sciences.		
		Advisor(s): Margaret Whalen		
3:15 PM A023 EFFECTS		EFFECTS OF DIBUTYLTIN EXPOSURES ON TRANSLATION REGULATORY		
		FACTOR S6 IN HUMAN IMMUNE CELLS		
		Meaghan Lewis*, Amanda Ruff. Biological Sciences, College of Life and Physical Sciences.		
		Advisor(s): Margaret Whalen		
3:30 PM	A087	WNT SIGNAL MODULATION IN CHRONIC WOUNDS		
		Ashanti Mitchell*, Karrington Powell. Biological Sciences, College of Life and Physical		
		Sciences. Advisor(s): Sarika Saraswati		
3:45 PM	A043	THE SGLT2 INHIBITOR CANAGLIFLOZIN REDUCES ANDROGEN RECEPTOR		
		EXPRESSION AND NUCLEAR LOCALIZATION OF BETA-CATENIN IN HUMAN		
		PROSTATE CANCER CELLS		
		Kalkidan Bekele*. Biological Sciences, College of Life and Physical Sciences. Advisor(s):		
		Margaret Whalen, LaMonica Stewart, Ph.D.		