Agriculture Undergraduate Winner Expanding Water Line Infrastructure to Rural Residents of Putnam County, Tennessee HUMAN ECOLOGY UNDERGRAD WINNER 1 Effects of Probiotic Implementation on Women with Anorexia Nervosa HUMAN ECOLOGY UNDERGRAD WINNER 2 Ways Teachers Accommodate Children with Sensory Processing Disorder Needs in the Classroom COLLEGE OF ARTS AND SCIENCES BIOLOGY M.S. WINNER Examining Snapping Shrimp Morphology Using Geometric Morphometrics in a Phylogenetic Framework BIOLOGY UNDERGRADUATE WINNER Anatomical diversity of evolutionarily convergent egg mimics in passion flowers (Passiflora L.) Synthesis of pyridinyl-1,2,4-triazinyl-1,3,4-oxadiazole; a soft-Lewis basic ligand towards selective minor actinide	Primary Author	Faculty Advisor	Title	CoAuthor 1	CoAuthor2	CoA
Industry Leaders' Perceived Critical Thinking Agriculture Undergraduate Winner Expanding Water Line Infrastructure to Rural Residents Aron Lay Dennis Duncan of Putnam County, Tennessee HUMAN ECOLOGY UNDERGRAD WINNER 1 Edidney Woodard Allison Coutinho Anorexia Nervosa HUMAN ECOLOGY UNDERGRAD WINNER 2 Ways Teachers Accommodate Children with Sensory Processing Disorder Needs in the Classroom COLLEGE OF ARTS AND SCIENCES BIOLOGY M.S. WINNER Examining Snapping Shrimp Morphology Using Geometric Morphometrics in a Phylogenetic Framework Charlis Littlell Shawn Zeringue-Krosnick mimics in passion flowers (Passiflora L.) Synthesis of pyridinyl-1, 2,4-triazinyl-1, 3,4-oxadiazole; a soft-Lewis basic ligand towards selective minor actinide CHEMISTRY PH.D. WINNER Geochemical Fingerprinting of Natural Waters in Ryant Davis Andrew Callender CHEMISTRY UNDERGRADUATE WINNER Geochemical Fingerprinting of Natural Waters in Geochemical Fingerprinting of Natural Waters in Geochemical Fingerprinting of Natural Waters in Geochemical Fingerprinting of Solutions using Metal Ion Removal from Aqueous Solutions using						
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CHEMISTRY UNDERGRADUATE WINNER 1 (Tie) Metal Ion Removal from Aqueous Solutions using						
Metal Ion Removal from Aqueous Solutions using			Tennessee			
	CHEIVIISTRY UN	IDERGRADUATE WINNER I (TIE)	Metal Ion Removal from Agueous Solutions using			
Mawna Coales Amanaa Carron 1907 Se ana 150 Chelating Nesins	Shawna Coulter	Amanda Carroll	•			
	Sila Wila Coulter	Amanaa canon	reaction to cheming results			
Chemoselective green oxidation of heteroaryl			Chemoselective green oxidation of heteroaryl			
	Connor Pinson	Jesse Carrick	-	Alexander Stovall	Zachary Gulledge	
CHEMISTRY UNDERGRADUATE WINNER 2 (Tie)	CHEMISTRY UN	IDERGRADUATE WINNER 2 (Tie)			·	

Chance Morris	Amanda Carroll	Water Remediation Utilizing ISA, TSC, and SC Synthesis of a novel Terpenoid and optimization of its preparation for yield and environmental impact using Design of Experiment (DOE)			
Sydney Asmus	William Carroll	(-)	Taylor Fletcher		
EARTH SCI	ENCES MASTER'S WINNER				
Madison Moffitt	Peter Li	A Method for Mapping Environmental Justice Factors by Watershed			
EARTH SCIENC	ES UNDERGRADUATE WINNER				
Joel Baker	Michael Harrison	Microstructures in faulted sandstone near Spencer, Tennessee	Alyssa Oldfather	Michael Harrison	Holly Str
ENGLIS	SH MASTER'S WINNER				
Hayle Moore	Helen Hunt	Fanny Hill: An Eighteenth Century Bisexual Woman			
ENGLISH U	INDERGRADUATE WINNER				
Christopher Fairchild	Kristen Deiter	Is King Richard a True Machiavellian? Comparing The Prince to The True Tragedy of Richard The Third			
FOREIGN LANGUA	AGES UNDERGRADUATE WINNER				
		Industries of Vice: Alcohol, Tobacco, and COVID in Germany			
Daniel Frost	Martin Sheehan				
HISTORY U	INDERGRADUATE WINNER				
Summer King	Allen Driggers	The European Question in America, 1861-1865			
MATHEM	ATICS MASTER'S WINNER				
		An Introduction to Wavelets and Multiresolution Analyses with an Application to Digital Signal			
Sydney Clere	Amy Chambers	Processing			
	NDERGRADUATE WINNER	Designing a Lagar Ablation Ion Source	lackson Dittort		
Zachary Hinchman	Mustafa Rajabali LEGE OF EDUCATION	Designing a Laser Ablation Ion Source	Jackson Dittert		
	PSYCHOLOGY MASTER'S WINNER				
COOKSELING AND	TOTOTOLOGI WINDSTER O WINNER	Career decision-making in college students: A path			
		analysis of early childhood attachment, gender, age,			
Lara Strate	Tony Michael	and socioeconomic status			
COUNSELING AN	ND PSYCHOLOGY PH.D. WINNER				

		An investigation of the factor structure and			
		psychometric properties of the Adverse Childhood			
Brittney Phillips	Tony Michael	Experiences scale in college students.			
	YCHOLOGY UNDERGRADUATE WINNER	Experiences scale in conege students.			
COOKSELING AND 13	TCHOLOGI ONDERGRADOATE WHITER	Examining the Relationship Between Identity and			
Livia James	Nicole Henniger	Shame Resilience			
	ND INSTRUCTION PH.D. WINNER	Shame Resilience			
		The Relationship of Adverse Childhood Experiences,			
		Protective and Compensatory Experiences and			
Adrianne Colquitt	George Chitiyo	Children's Flourishing			
·	NCE UNDERGRADUATE WINNER				
		Is there a relationship between lower body power and			
Noah Schwartz	Michael Phillips	speed?	Nicholas Haynes		
COLI	EGE OF ENGINEERING		,		
CHEMICAL EN	GINEERING MASTER'S WINNER				
		Direct Formic Acid Fuel Cells: Mass Transport			
Steven Lam	Joe Biernacki	Optimization of the Anode Catalyst Layer			
CHEMICAL	ENGINEERING PH.D. WINNER				
		Role of Nanocellulose Hydrogels in Regenerative			
Anfal Haris	Robby Sanders	Medicine: Preliminary Observations	Pedro Arce		
CHEMICAL ENGINE	ERING UNDERGRADUATE WINNER 1				
		The Syllabus as an Agreement of Cooperation for			
Isabella Southerland	Pedro Arce	Course Learning: A Student Perspective			
CHEMICAL ENGINEER	ING UNDERGRADUATE WINNER 2 (Tie)				
		Synthesis of near-infrared pigments for novel sensor			
John Clark	Holly Stretz	applications	Holly Stretz		
		Role of Intermediaries in the Degradation of			
		Acetaminophen by Photocatalytic Methods:			
Luke Horne	Pedro Arce	Preliminary Observations	Sabrina Hurlock Buer	Dipendra Wagle	Robby Sa
CIVIL AND ENVIRON	MENTAL ENGINEERING M.S. WINNER				
		FLOOD RISK EDUCATION IN THE TRACE CREEK			
	A16 1 14 1	WATERSHED USING HEC-RAS AND ARCGIS STORY			
Brady England	Alfred Kalyanapu	MAPS	Maci Arms	John Brackins	
CIVIL AND ENVIRONM	ENTAL ENGINEERING UNDERGRADUATE				

		Microplastics Sampling and Identification in Wastewater Treatment Plants around Middle			
	nia Datta	Tennessee	Justin Murdock	Tania Datta	
Computer Science	e Master's Winner 1				
Matth our Droth out on	liana Ekanla	Using Graph-based Knowledge Discovery to Detect Anomalous Patterns in Crime Data			
	liam Eberle				
COMPUTER SCIENC	E MASTER'S WINNER 2				
,	liam Eberle	Diagnostic Prediction using Clinical text analysis			
COMPUTER SCIENCE	CE PH.D. WINNER (Tie)				
Daniel Adams Wil	liam Eberle	Estimating the Condition of Streams & Rivers: An approach using supervised learning methodologies	Peter Li		
Islam Elgarhy Wil	liam Eberle	Data Mining for Cardiovascular Disease Prediction			
COMPUTER SCIENCE UN	NDERGRADUATE WINNER 1				
Lukas Motykowski Dou	ug Talbert	Anomaly Detection using Convolutional Neural Networks in Wire Arc Manufacturing			
COMPUTER SCIENCE UND	ERGRADUATE WINNER 2 (Tie)				
Brendan Jackson Ma	anak Gupta	The Cybersecurity Concerns of Smart Agricultural Vehicles	Conall Fisher	Johnathan Rich	Jalen Sta
	anak Gupta	Vulnerabilities of Autonomous Vehicles: The Impact Self-driving Technology Has On Our Data and Safety	Sierra Stewart	Jayden Wright	Jonathar
ELECTRICAL AND COMPUTE	ER ENGINEERING M.S. WINNER				
Abiodun Olatunji Ind	ranil Bhattacharya	AI Based Optimization of Solid State Transformer Core for Modern Electric Vehicles Using Multi-Objective Genetic Algorithm	Indranil Bhattacharya	Webster Adepoju	
ELECTRICAL AND COMPUTE	R ENGINEERING PH.D. WINNER				
Trapa Banik Ind	ranil Bhattacharya	Mitigation of Jahn-Teller Effect in P2 type Sodium Iron Manganese Oxide Cathode via Ti and V Doping	Indranil Bhattacharya		
·	ENGINEERING UNDERGRADUATE	widingariese Oxide Cathlode via 11 and v Doping	maranii bhattacharya		

		Novel Conservative Reversible Logic Gate Logic			
Weston Beebe	J.W. Bruce	Function Implementations with Minimal Garbage	J. W. Bruce		
		Towards Automated Machine Learning Detection of			
Parth Patel	J.W. Bruce	Academic Dishonesty in Computer-Based Testing	J.W. Bruce		
MANUFACTURING AND E	NGINEERING TECHNOLOGY M.S. WINNER	· · · · · · · · · · · · · · · · · · ·			
		Optimizing Lattice Infill Structures to Reduce Mass &			
		Power Consumption for Popular 3D Printing			
Mohammad Alshaikh Ali	Ismail Fidan	Technologies			
MANUFACTURING AND EN	IGINEERING TECHNOLOGY PH.D. WINNE				
		Investigation of the thermal properties of various short			
		carbon fiber reinforced polymers in Fused Filament			
Orkhan Huseynov	Ismail Fidan	Fabrication process	Ismail Fidan		
·		Fatigue Analysis of Carbon Fibre Reinforced Composite			
		Components Manufactured by Fused Filament			
Mithila Rajeshirke	Ismail Fidan	Fabrication	Ismail Fidan		
MECHANICAL	ENGINEERING M.S. WINNER				
		A Method to Generate 3D Patient-Specific Total Knee			
Andrew Gothard	Steven Anton	Arthroplasty Tibia Models			
MECHANICAL	ENGINEERING PH.D. WINNER				
		Predicting unknown upstream events using			
Reza Nouri	Ahmad Vaselbehagh	Convolutional Neural Network			
MECHANICAL ENGIN	EERING UNDERGRADUATE WINNER				
		Vibration Analysis of a Concrete Slab Floor Using			
Warren Sims	Sally Pardue	Piezoelectric Accelerometers			
COLLEGE OF I	NTERDISCIPLINARY STUDIES				
ENVIRONMENTAL S	TUDIES UNDERGRADUATE WINNER				
		Solar Energy for Bridgestone Nature Reserve at			
Rachel Reed	Steven Sharp	Chestnut Mountain	Samantha Snyder	Ashley Daniel	Luke Fra
INTERDISCIPLINARY STUDIES UNDERGRADUATE WINNER					
		The Need for STEM workshops and clubs in Carter			
Brandon Pierce	Ann Manginelli	County Tennessee			
COL	LLEGE OF NURSING				
NUR	RSING DNP WINNER				

Implementation of an ADHD Electronic Portal in Pediatric Primary Care

Heather Cathey Bedelia Russell

NURSING UNDERGRADUATE WINNER

Ketamine treatment for Veterans with Post Traumatic

Haley Bearden Lynette Harvey Stress Disorder Lynette Harvey