2024 RCID Winners

AUTHOR_1	AUTHOR_2	AUTHOR_3	AUTHOR_4	AUTHOR_5	Classification	Abstract_Title	P_Auth_Faculty_Advis	Faculty_Advis_Dept	Faculty_Advisor_College
							Victoria Ayres		
					Undergraduate	The Effects of Biochar as a Litter Amendment in on			
Antonio Fuentes Garcia					Student	Broiler Growth Performance and Litter Quality		Agriculture	College of Agriculture and Human Ecology
						Demonstration of the method with led an employed			
						Response of tomato yield and yield-correlated	Michael Nattrass		
						morphology to hydroponic nutrient solution			
						application regimes			
Ronnie Dunn					Graduate Student			Agriculture	College of Agriculture and Human Ecology
						Is Kombucha Leather a Viable and Attractive			
					Undergraduate	Alternative to Real and Faux Leather Options?	Hannah Upole		
					-	Alternative to Real and Faux Leather Options:		Ulumon Coolony	
Canaan Jones	Brooke Galan				Student	What are the primary advantages of using tensile		Human Ecology	College of Agriculture and Human Ecology
						What are the primary advantages of using tensile	Hannah Upole		
						fabric materials in the construction of commercial			
					Undergraduate	buildings compared with traditional building			
Shannon Lee	Lucas Ballard				Student	materials?		Human Ecology	College of Agriculture and Human Ecology
					Undergraduate	What is the feasibility of using reusable sterile	Hannah Upole		
Cael Sumerlin	Raegan Tjon Sien Kie				Student	medical gloves in medical training facilities?		Human Ecology	College of Agriculture and Human Ecology
					Undergraduate	How Can Wearable Triboelectric Nanogenerators Be	Hannah Upole		
Ethan Mayo	Chrystopher Shaward				Student	Optimized?		Human Ecology	College of Agriculture and Human Ecology
		_		-		Effects of Caffeine Intake on Anxiety and Depression			
					Graduate Student		Samantha Hutson	Human Ecology	
Macie Long					Graduale Student	Symptoms		Human Ecology	College of Agriculture and Human Ecology
						Exploring Eco-Friendly Screen Printing Practices that	Hannah Upole		
Hunter Tisdale	Kennedy Agee				Graduate Student	are Practical to Adopt		Human Ecology	College of Agriculture and Human Ecology
							Darci Bell		
Piper Smith					Graduate Student	Alaskan Natives: Location and Health Vulnerability		Human Ecology	College of Agriculture and Human Ecology
						A Novel Application of Membrane Inlet Mass	Joshua Hall		
					Undergraduate	Spectrometry to Study Larval Physiology of the			
Kaitlyn Darnell					Student	Streamside Salamander (Ambystoma barbouri)		Biology	College of Arts and Sciences
Kaitiyii Darneli					Student			Diology	
						Characterization and Organization of Telomeric-	Mostafa		
						Linked Helicase (TLH) Gene	WOStala		
Sahar Salimi	Foad Abdi				Graduate Student	2 Families in Fusarium oxysporum		Biology	College of Arts and Sciences
				1		1			1
				1	Undergraduate	Carboxylic acids as anion precursors in the	O. Andreea Cojocaru		
Lauren Knight					Student	formation of liquid state thioridazine drugs		Chemistry	College of Arts and Sciences
						Progress Towards the Convergent Synthesis of	Jesse Carrick		
			1			Unsymmetric, Pyridyl Imid- and Oxazoles via			
			1		Undergraduate	Cyclization of Amidines and Amides with Terminal			
Blake Hudak					Student	Alkynes		Chemistry	College of Arts and Sciences
-	1						Ranil Gurusinghe		
			1			LOW BARRIER QUANTUM TUNNELING IN THE CIS			
					Undergraduate	AND TRANS CONFORMER OF 3-METHYLSTYRENE			
Cadence Miller	Mitch Swann	Thusitha Jayasekara	1		Student	PROBED USING FT-MICROWAVE SPECTROSCOPY		Chemistry	College of Arts and Sciences

			1		Undergraduate	Utilization of APCI-mass spectrometry for field	Dr. Jeffrey Boles		
Claudia McDavid					Student	identification of opioids	DI. Jenney boles	Chemistry	College of Arts and Sciences
							Dr. Kyle Murphy	,	
					Undergraduate	N-acyl hydrazone furfural derivates as candidates			
Iroda Abdullaeva	Danielle Ferguson				Student	for inhibition of quorum sensing in bacteria		Chemistry	College of Arts and Sciences
	Danielie i ergason				otaacht			enemisery	
						Telescoped condensation of heteroaryl carbonitriles	Dr. Jassa D. Carriek		
						toward unsymmetric, pyridyl-1,2,4-triazine	Dr. Jesse D. Carrick		
						complexant scaffolds for chemoselective minor			
					Graduate Student	actinide separations		Chemistry	College of Arts and Sciences
Eric Agyei						Progress towards the Synthesis of Unsymmetric		chemistry	College of Arts and Sciences
						Tridentate Complexants for Application to Minor	Jesse Carrick		
					Graduate Student	Actinide Separations		Chamistry	
Racheal Ajibola					Graduale Student	Actimue Separations		Chemistry	College of Arts and Sciences
						XRD Illite Crystallinity Technique: Developing	Dr. Gourab Bhattacharya		
					Undergraduate	Laboratory Standards and Testing of Appalachian			
Robert Moore	Riley Mansell				Student	Shales		Earth Sciences	College of Arts and Sciences
						Determining Watershed Pollution Environmental	Dr. Peter Li		
						Justice Scenarios Using Data from Ambient Water			
Benjamin Lane					Graduate Student	and Fish Tissue		Earth Sciences	College of Arts and Sciences
					Undergraduate		Troy Smith		
April Riley					Student	Tennessee Death Penalty	,	History	College of Arts and Sciences
					Undergraduate	A Tragic Resemblance: The Satirical Tale of Romeo	Dr. Kristen Deiter		
Shannon Long					Student	and Juliet		English	College of Arts and Sciences
					Undergraduate	Richard, Duke of Gloucester: Ruthless Ruler or	Kristin Deiter	-	
Hailey Reagan					Student	Product of His Environment?		English	College of Arts and Sciences
nancy neugan									
	-						Dr. Kahalumla Davisas		
						Optimizing Airfare Forecasting: A Comprehensive	Dr. Kehelwala Dewage		
Abhijeet Solanki					Graduate Student	Analysis of Machine Learning Techniques	Maduranga	Mathematics	College of Arts and Sciences
Abhijeet Solaliki								Wathematics	College of Arts and Sciences
					Undergraduate	Measurements of the 134Xe Neutron Capture Cross-	NA		<u> </u>
Lulus Damana					Student	section Between 0.43 and 5.5 MeV	iviary Kidd	Physics	
Luke Parsons				L	Student	Section between 0.45 and 5.5 MeV		1 1193103	College of Arts and Sciences
						Historia Louis to Donid Higher Herristers at D.			
l					Creativete Churden 1	Historic Lows to Rapid Highs: How Interest Rate	Sid C. Bundy	A	
Kailey Wood					Graduate Student	Changes Impact Banks' Cost of Funds		Accounting	College of Business
L		1							
1						Pen to Picket: Unraveling the Economic Impacts of	Melissa Creek		
1					Undergraduate	Writers and actors strikes in the Entertainment			
Justin Woods	Shaye Carter				Student	Industries.		College of Business	College of Business
					Undergraduate		Dr. Matthew Zagumny	Counseling and	
Nick Woods					Student	Existential Meaninglessness Phenomenology		Psychology	College of Education
		1	1		1				
									•

[Promoting Campus Wellness Through the Lens of	Dr. Tony Michael	Counseling and	
Mason Hale				Graduate Student	Mental Health Counselors	bit. Tony Michael	Psychology	College of Education
						Holly Anthony		
					Interpreting Student Perspectives: A Qualitative case	nony / minony		
					Study on Self-Advocacy Development for a student			
					with a Physical Disability participating in academic		Curriculum and	
Hannah Willis				Graduate Student	coaching in Higher Education		Instruction	College of Education
							matraction	
				Undergraduate		Bobbi Severt		
Eva Kilgore				Student	Sport Specialization	BODDI Severt	Exercise Science	College of Education
				Undergraduate	Degradation of Per- and Poly-fluoroalkyl Substances	Dr. Pobby Sandors		
Claire Myers				Student	(PFAS) - Preliminary Review	Dr. RODDy Sanders	Chemical Engineering	College of Engineering
				student			chemical Engineering	
						Dr. Pedro Arce		
					Microplastics in Wastewater Treatment Facilities:	DI. FEULO AILE		
					Fate and Transport in the Cookeville Wastewater			
Sahera Abumariam Gabrie	Shafiah Karami	Phuong Trop		Graduate Student	Treatment Plant and Literature Review		Chemical Engineering	College of Engineering
Sallera Abulliarialiti Gabile		Phuong Tran			Role of the Renaissance Foundry Model in Guiding	De due Ause	chemical Engineering	
					Experiential Learning in the Systematization of	Pedro Arce		
Shanae Tyree				Graduate Student	Species Mass Conservation		Chemical Engineering	College of Engineering
Shahae Tyree							chemical Engineering	
						V 1 D	Civil and	
				Undergraduate		VandenBerge	Environmental	
Crasis Cara				Student	AASHTO Soil Types in Tennessee		Engineering	College of Engineering
Gracie Gore				Student	AASITTO Soli Types in tennessee		Lingineering	College of Engineering
						D	Civil and	
					Development of Ultra-High Performance Concrete	Benjamin J. Mohr	Environmental	
Mad Canaid Chara Madamura	Dua una alcia Kau	Mail Chanifed Jalana		Graduate Student	with Locally Available Materials		Engineering	
Md Saeid Ebna Maleque	Pramashis Kar	Md Shariful Islam					Lingineering	College of Engineering
				Undergraduate				
Halan Dumall	liad la cont	La alevia I a lucata		Student	Early Detection of Alzheimer's Disease	Dr. William Eberle	Computer Science	
Haley Burnell	Liezl Laurel	Joshua LaJuett		Student	Larry Detection of Alzheimer's Disease		computer science	College of Engineering
					Credit Card Fraud Detection with Generative	Dr. William Eherd-		
Farhat Barsha				Graduate Student	Adversarial Networks	Dr. William Eberle	Computer Science	College of Engineering
i ai ildt Ddi Sild								College of Engineering
						Cuert Ali Arent Dirui		
				Undergraduate	Reinforcement Learning Based Adaptive Cruise	Syed Ali Asad Rizvi	Electrical and	
Abdulrahman Almudaua	Khalifah Altan-ii			Student	Controller for Autonomous Vehicles			College of Engineering
Abdulrahman Alrudayan	Khalifah Altamimi			Judeni	controller for Autonomous venicles			College of Engineering
					Developing an Electric Vehicle Driving Dataset to	Dr. JW Bruce	Electrical and	
Wester Deek				Graduate Student				
Weston Beebe				Graduate Student	Analyze Driving Behavior		computer Engineering	College of Engineering
					Applysis and Evoluction of LCTM and CNM hard	Dr. Satish M. Mahajan	Electrical and	
				Craduata Chudant	Analysis and Evaluation of LSTM and CNN-based		Electrical and	
Nabil Bin Shahadat Shuva				Graduate Student	short-term load forecasting		computer Engineering	College of Engineering

Robert Officer				Undergraduate Student	The Development of Knowledge Blocks for Producing the Remanufactured filaments for the Material Extrusion Processes		Manufacturing and Engineering Technology	College of Engineering
					Experimental and Numerical Analysis of a Novel Metal Casting Process: Lost-PLA Casting	Ismail Fidan	Manufacturing and	
Mohammad Alshaikh Ali	Shamil Gudavasov	Vivekanand Naikwadi		Graduate Student	_		Engineering Technology	College of Engineering
				Undergraduate	Material Testing of Aluminum Plate for Simplified Vibration Based Smart Building Structural Dynamics	Steven Anton		
Colin Wall	Andrew Gothard			Student	Model		Mechanical Engineering	College of Engineering
					Numerical Modeling of Industrial Thermal Management Systems for Energy Efficiency	Ethan Languri		
Spencer Jones	Atra-Niese Jones			Graduate Student	Improvements		Mechanical Engineering	College of Engineering
				Undergraduate	Upper Cumberland Oral History Project: Preserving Weather History by Interviewing Long-term	Meagan Atkinson		
Theodora Kline				Student	Residents.		Archives	Volpe College