

Friday, August 31, 2018 Science Building Atrium

Easel #	Authors/Mentors	Department/	<u>Title</u>
1	Darshit B. Patel Gabriel T. Gwirtsman Tegan E. Schafer Dr. Andrienne C. Friedli	<u>Program</u> Chemistry	A Comparison of Synthesis and Properties of Dyes with (Thio)barbituric Acid Acceptors
2	Paeton Poynter Kerolos Bushra Keshav Paudel Bedraj Pandey Daniela Taylor <i>Dr. Keying Ding</i>	Chemistry	Synthesis of Tripodal Mixed P/N Donor Ligands for Dehydrogenative Coupling Catalysis
3	Wesley D. Kirkland Dr. Andrienne C. Friedli	Chemistry	Solvatochromism in a Series of Compounds with a Rhodanine Acceptor
4	Mary F. Sadek Dr. Andrienne C. Friedli	Chemistry	Synthesis and Analysis of a Series of Donor-Pi-Tetracyanofuran Dyes
5	Tegan E. Schafer Muhammad O. Ali Dr. Andrienne C. Friedli Dr. Piotr Kaszynski	Chemistry	Nucleophilic Substitution Reactions of the Mono- and Bis- Phenyliodonium Derivatives of [closo-B10H8]2-
6	Michelle Sabir Dr. Erin E. McClelland	Biology	How the Polysaccharide Capsule of Cryptococcus neoformans Plays a Key Role in Human Susceptibility to Cn Related Infections
7	Jessica L. Bullock <i>Dr. Keying Ding</i>	Chemistry	Self-Coupling Reactions of 2-octanol as Facilitated by Cobalt Complexes of Tripodal Phosphorus/Nitrogen Mixed Donor Ligands
8	Jessica L. Bullock Daniela Taylor Keshav Paudel Bedraj Pandey <i>Dr. Keying Ding</i>	Chemistry	Cobalt Catalyzed Secondary Alcohol Self-couplings

9	Ross Thomas Dr. Rebecca L. Seipelt- Thiemann	Biology	Missouri Grape Endophyte Identification
10	Revathi Kuruganti Dr. Iris Gao Dr. Nate Philips	Agriculture	Evaluating Ginseng Plant Growth in Hydroponics with various Nutrient Media and pH Range
11	Kayley Stallings Dr. Tony V. Johnston	Agriculture	Antibacterial Activity of Endophytic Fungi Located in Arkansas Vitis aestivalis (Norton / Cynthiana) Vegetative Tissue
12	Luke Philipose Dibyendu Dutta Dr. Ngee Chong Dr. Beng Guat Ooi	Chemistry	Emissions of Volatile Organic Compounds from Electronic Cigarettes
13	Justin Woods Dr. Suman Neupane	Physics and Astronomy	Synthesis of Carbon Nanotubes Using Chemical Vapor Deposition
14	Justin K. Woods Melissa Parsons <i>Dr. Brian J. Slaboch</i>	Mechatronics Engineering	Design and Implementation of 3-RPR Control Systems
15	Crystal Sivilay Dr. Thomas M. Brinthaupt	Psychology	Pre-Service Teacher Self-Efficacy on Inclusive Classroom Management
16	Josh Upham Dr. Mark J. Abolins	Geosciences	Groundwater Flow Beneath the Overall Creek Watershed and Adjacent Areas, Central Tennessee
17	Gabrielle T. Hampton Dr. Anthony Newsome	Biology	Activity of Plant Extracts and Aurone Derivatives against Clinical Isolates of Acanthamoeba
18	Sarah Collins Dr. Nicky Wu	Health and Human Performance	How Can Virtual Reality Tourism Be Used as an Effective Marketing Tool for Study Abroad Programs?
19	Desiree Masencup Olivia Anchondo Alexa Neff Dr. Hanna Park	Journalism and Strategic Media	Using Content Analysis to Understand Youth Engagement in Public Relations
20	Mary C. De La Torre Dr. Meredith Dye	Sociology and Anthropology	Perceptions of Motherhood among Non-mothers Serving Life Sentences
21	Raja Pandey Hussain S. Alshahrani Elissa Williams Sergiy Krylyuk Dr. Charles C. Chusuei	Chemistry	An Acetaminophen Electrochemical Sensor of Silicon Nanowires
22	Beverly Grace Warner Dr. Charles Higgins	Physics and Astronomy	Effect of the Lunar Shadow in the Intake of Data from Solar Activity
23	lsaac Shirk Elizabeth Campbell Dr. William M. Robertson	Physics and Astronomy	Using Helmholtz Resonators to Overcome Acoustic Impedance Mismatches

24	Stephen M. Tansie Mitch C. Merryman Dr. Rebecca L. Seipelt- Thiemann Dr. Erin E. McClelland	Biology	Detailed Transcript Analysis of Virulence Gene Lacc2 from Clinically- derived Cryptococcus neoformans strains shows Alternative Splicing
25	Joseph P. Gulizia <i>Dr. Kevin Downs</i>	Agriculture	Total and Nutrient-Specific In Situ Degradation of Kudzu (Pueraria montana) in the Bovine Rumen
26	Gail Choisser Dr. Warner Cribb	Geosciences	A Geochemical, Mineralogical and Petrographic Investigation of the Rheology of Lavas Erupted at Mt. Hood Volcano, Oregon
27	Prianca Griggs Dr. Erin McClelland	Biology	Examining SNF3's Role in the Virulence of Cryptococcus Neoformans
28	Christopher G. Robinson Dr. Melissa K. Lobegeier	Geosciences	The Potential Applications of 3-D Modeling in Taxonomic Analyses of Testate Amoebae
29	Travis D. Marlow Dr. Chuck A Higgins	Physics and Astronomy	Long Term Variability of Solar Radio Bursts
30	Joseph Rosen Dr. Erin McClelland	Biology	Comparing Seropositivity to Cryptococcus Neoformans in Healthy Individuals in Tennessee and Pennsylvania
31	Kirsten N. Welch Arjun Kafle Dr. Erin McCelland Dr. Scott Handy	Biology	Classification of Multiple Aurones for the Pathogenic Yeast Cryptococcus Neoformans
32	Johnathan W. Campbell Dr. Greg Van Patten	Chemistry	Controlling the Size of Quantum Dots
33	Hannah Hall Aimee Wilson <i>Dr. John DuBois</i>	Biology	Inducing Somatic Embryogenesis of Grape (Vitis aestivalis "Norton/Cynthiana") Callus
34	Simon Pergande Dr. Yangseung Jeong	Biology	Population Density and Species Composition of Forensically Important Flies by Season at the Anthropological Research Facility of University of Tennessee
35	Adekunle Titus Akinmola Amadou Fall Chen Lin <i>Dr. Greg Van Patten</i>	Chemistry	Cation Exchange of Chalcogenide Nanocrystals Using Non-toxic Starting Materials
36	Myranda Uselton <i>Dr. Jing Kong</i>	Chemistry	Investigating Quantum Computation

THE URC WOULD LIKE TO THANK

Dr. David Butler, Vice Provost, Research and Dean, College of Graduate Studies and Mr. Jeffry Porter, Director of Office of Research and Sponsored Programs for sponsoring this event

MTSU Undergraduate Research Center (URC)

The MTSU Undergraduate Research Center (URC) was created in 2004 to promote mentored research at the undergraduate level and provide university support for undergraduate students and the faculty members who mentor them in scholarly and creative activities. This includes providing information and financial support through grants. Mentored research strengthens students' content knowledge, research skills, and soft skills that employers and graduate schools value.

In addition to funding student research through our Undergraduate Research Experience and Creative Activity (URECA) grants, the URC hosts several events each year that give MTSU students an opportunity to showcase their research. These events include the Summer Research Celebration, the Fall Undergraduate Research Open House, Posters at the Capitol, and Scholars Week. We hope you will check out these events and join us to experience the benefits of mentored research firsthand.

Important Dates:

Thursday, September 6, 2018 – Fall URECA Deadline

Thursday, October 4, 2018 – Fall Undergraduate Research Open House – SCI atrium 12-3 p.m.

Thursday, January 24, 2019 – Spring URECA Deadline

Thursday, March 28, 2019 – Summer URECA Deadline

March 18-22, 2019 – Scholars Week 2018

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