THE UNIVERSITY OF TENNESSEE KNOXVILLE

UNDERGRADUATE RESEARCH

22ND ANNUAL EURēCA

Exhibition of Undergraduate Research & Creative Achievement



APRIL 16 - 20, 2018 | HODGES LIBRARY

#volresearch

Welcome to the University of Tennessee's 22nd annual Exhibition of Undergraduate Research and Creative Achievement (EURēCA). This event honors original and creative works completed by undergraduate students as the highlight of Research Week events and celebrations.

The Office of Undergraduate Research coordinates this unique competition to encourage, support, and reward undergraduate participation in the campus research enterprise. Participating in campus research empowers students to produce original work, develop faculty mentoring relationships, enhance their resumes, and become more competitive when applying to graduate school. EURēCA continues to expand its opportunities to participate. With a combined 849 students presenting 628 research projects, this year's exhibition is the largest yet. The diverse array of exhibits and performances highlights a broad range of endeavors and approaches, including both individual and collaborative efforts, as well as research produced both within and outside the classroom.

Generous support for this event is provided by the Office of the Chancellor and the Office of Research and Engagement. Awards are given by colleges, departments, and Phi Kappa Phi National Honor Society. Also we send a big thank you to our division representatives in organizing the participants from their areas and to our judges for all of their hard work in selecting this year's winners. We are also thankful for the time and effort the library has devoted to ensuring this event is a success.

We'd especially like to thank each of you for taking the time to visit the event, speak with the students, and support the excellent undergraduate research and creative activity at the University of Tennessee, Knoxville. If you would like to become more involved in undergraduate research, I encourage you to take advantage of our enhanced institutional membership of the Council on Undergraduate Research as well as contact our office for information on how to get started.

Sincerely,

Marisa Moazen

Marisa Moazen, Ph.D.
Executive Director, Office of Undergraduate Research

Exhibition of Undergraduate Research and Creative Achievement 2018

Schedule of Events

Monday, April 16

5:00 p.m. – 8:00 p.m. Exhibition of Group A opens for judging and viewing

Architecture & Design; Arts & Sciences – Humanities, Social Sciences, Visual & Performing Arts; Communication and Information; Education, Health, and Human Sciences; Nursing; Social Work; and Haslam College of Business

Tuesday, April 17

5:00 p.m. – 8:00 p.m. Exhibition of Group B opens for Judging and Viewing

Arts & Sciences, Honors English 298

Wednesday, April 18

5:00 p.m. – 8:00 p.m. Exhibition of Group C opens for Judging and Viewing

Agricultural Sciences and Natural Resources; Arts & Sciences Natural Sciences; Engineering

Thursday, April 19

All Day Exhibitions Open to the Public

6:00 p.m. – 7:30 p.m. Awards Ceremony in Alumni Memorial Building, Room 210

School of Music EURēCA Top Winner, Selected at the University of Tennessee's School of Music 2018 Celebration of Excellence Competition, Performance:

Natalie Gregg, Flute; Alex Hall, Oboe;
Ryan Ramsey, Bassoon; Peter Kim, Clarinet;
Seth Hall, Horn
Quintet, Mvt. I (August Klughardt) Faculty
Mentor: Professor Aaron Apaza

Friday, April 20 to Thursday, April 26

All Day Award Winning Posters on Display

Exhibition of Undergraduate Research and Creative Achievement

2018 Division Representatives

Suzanne Allard
Communication & Information

Christine Boake
Arts & Sciences

Sunha Choi
Social Work

Christopher Craig
Arts & Sciences, Humanities

T.K. Davis
Architecture & Design

Gina Di Salvo
Theatre

George Drinnon
Business

Christina Ergas
Arts & Sciences, Social Sciences

Ranjan Ganguly
Arts& Sciences, Natural Sciences

Kimberly Gwinn
Agricultural Sciences & Natural Resources

Kevin Kit
Engineering

Kristina McCue
Arts & Sciences, Honors English 298

Hollie Raynor
Education Health and Human Sciences

Cary Staples
Art

Kathleen Thompson
Nursing

Office of Research & Engagement

Victor McCrary
Vice Chancellor for Research & Engagement

Office of Undergraduate Research

Marisa Moazen
Executive Director of Undergraduate Research

Andrew Todd
Graduate Teaching Assistant

Susan Troop
Program Coordinator

Emily Mitchell
Administrative Assistant

EURēCA

Exhibition of Undergraduate Research & Creative Achievement

This year, over 840 undergraduate students from the University of Tennessee will be presenting their research and creative activity at EURēCA. This research covers many different disciplines, from music to mechanical engineering to stock market studies, and are categorized into the following 11 judging divisions:

College of Agricultural Sciences and Natural Resources
College of Architecture and Design
College of Arts and Sciences
School of Art, College of Arts and Sciences
School of Music, College of Arts and Sciences
Haslam College of Business
College of Communication and Information
College of Education, Health, and Human Sciences
Tickle College of Engineering
College of Nursing
College of Social Work

Research Posters and Creative Works

Presented on Monday, April 16, 2018

College of Architecture & Design				
Poster #	**Student Name**	**Major**	**Title**	**Faculty Mentor**
40	Aubrey Andrews	Architecture	Time-operative Space: fluidity of cataloging knowledge	Akerman, Jennifer
41	Mara Caoile	Architecture	futurefictions: A Reflection on Speed and Urban Resilience in the City of Manila	Akerman, Jennifer
42	Meredith Graves	Architecture	In Shadows of Disaster: Architectural Timestamps of Earthquake Processes	Akerman, Jennifer
43	Kendall Maples	Architecture	HOME[place]	Akerman, Jennifer
44	Mustapha Williams	Architecture	Urban Identity	Akerman, Jennifer
45	David Wright	Architecture	Infratecture | Infrastructure as Architecture	Akerman, Jennifer
46	Daniela Neal, Alexandra Rees, Heather Shine	Architecture	Seeding Empowerment	Ambroziak, A Katherine
47	Rachel Montgomery, Andrianna Thompson, Destin Manous	Architecture	Curiosity	Ambroziak, A Katherine
48	William Smith	Architecture	Haiti Passive Design Choices	Ambroziak, A Katherine
49	Jonathan Winfiele, Leah Cassetty, Susan Stewart	Architecture	The Canopy: An Urban Alternative in Fond-des-Blancs, Haiti	Ambroziak, A Katherine
50	Aubrey Bader, Sandra Ghabrial	Architecture	TRANSECTING THE HEART of the Federal Center South Building 1202	Davis, Marleen
51	Katherine Hill, Lauren Perry	Architecture	The New York Times Building	Davis, Marleen
52	Zachary Orig, Destin Manous	Architecture	Architectural Representation in Wall Section: The New Orleans Bioinnovation Center	Davis, Marleen
53	Brian Nachtrab, Isabella West	Architecture	Renzo Piano's Modern Wing of The Art Institute of Chicago - In Section	Goeritz, Hansjoerg
54	William Dunn	Architecture	Layers of Memory: Connecting the Roman Forum to the Theban Necropolis	Kalas, Gregor
55	Rachel Elbon, Sierra Holder, Jeremiah Corbett	Architecture	MAX	Rose, James

School of Art, College of Arts & Sciences

Poster #	Student Name	Major	Title	Faculty Mentor
1	Jonathan Young	Graphic Design	Y-12 – Electronic Interaction in a Museum Space	Staples, Carolyn
2	Jonathan McCammon	Graphic Design	Visualizing Outreach at Y-12	Staples, Carolyn
3	Cameron Spooner	Graphic Design	Pinpoint Travel App	Lowe, Sarah
4	Madison Moody	Graphic Design	Abstracting Uranium	Staples, Carolyn
5	Jordan Beets	Graphic Design	Financial Wizard	Lowe, Sarah
6	Cassidy Bruninga	Graphic Design	Air Pollution (Y-12)	Staples, Carolyn
7	Hannah Mcmillen	Graphic Design	Y-12 Interactive Timeline: Experiments in High Dimensional Space	Staples, Carolyn
8	Rachel Gorman	Graphic Design	Kid & Kin	Lowe, Sarah
9	Sam Hansen	Graphic Design	Revived Clothes c/o Sam Hansen	Lowe, Sarah
10	Jonathan Young	Graphic Design	Ray	Staples, Carolyn
11	Jordan Hubbard	Graphic Design	Bulletproof Blanket	Staples, Carolyn
12	Nur Elisa Abdul Razak	Graphic Design	The Economics of Recycling	Staples, Carolyn
13	Alisa Harvey	Graphic Design	Uncommon Sense	Lowe, Sarah
14	Caleb Jones	Graphic Design	Pit Pass	Lowe, Sarah
15	Jack Petschulat	Graphic Design	Student Freelance Platform	Lowe, Sarah
16	Reid Arowood	Art	Saliva Sample I : A Study on Personal Identity and Genetic Privacy	Sprecher, Jered
17	Emma Russel	Graphic Design	Process and Benefits of Water Recycling at Y-12	Staples, Carolyn
18	Jennifer Bondarenko, Thomas Murr	Graphic Design	Bonne Chance Onboarding	Staples, Carolyn
19	Jennifer Bondarenko	Graphic Design	Interactive Experience of Y-12 Technologies	Staples, Carolyn
20	Jayson Alexander	Graphic Design	Leave No Trace	Lowe, Sarah
21	Margaret Moore	Graphic Design	Vol Gap Year	Lowe, Sarah
22	Haley Carter	Fine Arts, Graphics	Uranium Storage Powering the Future	Staples, Carolyn
23	Robert Jenkins	Graphic Design	Point of Impact: Y=12 New Hope Center Installation Design	Staples, Carolyn
24	Dominic Karr	Graphic Design	Convincing Young Workers to Join Y-12 and Stay	Staples, Carolyn
25	Laurel Tyree	Graphic Design	Teaching Children the Importance of Empathy Through Bucket Activity	Lowe, Sarah
26	Alaysia Jetter	Graphic Design	Visualizing Atmospheric Changes	Staples, Carolyn
27	Vadim Bondarenko	Graphic Design	"The Power of an Atom", Digital Interactive Experience at the Y-12 New Hope Center	Staples, Carolyn

28	Justin Keyes	Graphic Design	Confined Inside the Fences of the Secret City	Staples, Carolyn
29	Thomas Murr	Graphic Design	Interactive Data Visualization	Staples, Carolyn
30	Sierra Plese	Graphic Design	Protypo	Lowe, Sarah
31	Wenxi Lyu	Graphic Design	Cause and Effect	Staples, Carolyn
32	Hannah Mcmillen, Dominic Karr, Robert Jenkins	Graphic Design	ETTAC: Creating a Social Media Strategy for a Local Non-Profit	Lowe, Sarah
33	Alexa Pavon	Graphic Design	Showcasing Sustainability at the Y-12 National Security Complex	Staples, Carolyn
34	Lian Yuan	Graphic Design	VICA (Virtual Injury Care Assistant)	Lowe, Sarah
35	Robert Jenkins, Eliza Razak	Graphic Design	One Blood: Understanding HIV Through Virtual Reality	Staples, Carolyn
36	Tiara Householder	Graphic Design	Y-12	Staples, Carolyn
37	Adelaide Davis	Graphic Design	Teaching Children About the Importance of Honey Bees	Lowe, Sarah
38	Ivanna Shliakhova	Communication	Atoms for Good	Staples, Carolyn
39	Jonathan Young, Jonathan McCammon	Graphic Design	Bonne Chance VR	Staples, Carolyn

Humanities, College of Arts & Sciences

Poster #	Student Name	Major	Title	Faculty Mentor
56	Emily Brower	Kinesiology	Representation of Human Musculature in the Bronze Age Aegean	Van de Moortel, Aleydis
57	Meera Patel	Classics	A Recipe for Disaster: The Athenian Plague and the Peloponnesian War	Van de Moortel, Aleydis
58	Kelsea Henderson	History	Roman Imperial Cult Relating to the Roman Pantheon	Latham, Jacob
59	Mackenzie Hobbs	History	"Sammy" Up to Bat! Notions of Masculinity within the AAGPBL	Sacco, Lynn
60	Emily Liske	Biochem/ Cellular/ Molecular Biology	"The Holy Brick of Birth-giving": A Reassessment of Ancient Near East Birth Bricks and Their Medical Role in Delivery	Darby, Erin
61	Brooke Hoffner	English	Edna Pontellier's Water Awakening and African Divinity Lasirenn	Jennings, La Vinia Delois
62	Hannah Nelsen	History	Caroline Earle White and the Animals Rights	Freeberg, Ernest F

63	Marina McKinley	History	A More Perfect Lie: Espionage and Propaganda in the Early Cold War	Liulevicius, Vejas
64	Hannah Nolan	History	Alternative Facts: Partisan Press Coverage of the French Revolution	Magra, Christopher
65	Mallory Donoghue	History	Why Evelyn Hazen Sabotaged Her Own Reputation: Gender Dimensions of the Judiciary Through the Lens of a 1920s-1930s Knoxville Breach of Promise Suit	Sacco, Lynn A
66	Margaret Goodwill	History	Home is Where the Art Is: How Progressive-Era Women Used Fine Art and Folk Crafts to Spark Economic & Cultural Development in Knoxville, TN	Sacco, Lynn
67	Conny Zhao	Music	The Musical Portrayal of Chinese Ethnic Minorities in Early Propaganda Films	Golden, Rachel
68	Bailey Penton	Interdisciplinary Programs	Mandalas in Ancient Japanese Architecture	Bryson, Megan
69	Amanda Beasley	Art History	Reading the Subtext: Genji Monogatari Emaki	Wright, Suzanne
70	Rebecca Percy	Music Performance	A Quiet Mind: The Key to Musical Performance	Binder, Shelley

Social Sciences, College of Arts & Sciences

Poster #	Student Name	Major	Title	Faculty Mentor
71	Avanti Rangnekar	Economics-Arts & Sciences	Who Benefits from the U.S. Preventive Services Task Force's Screening Mammography Recommendation: Identifying a Relationship Between the False Positive and Demographic Characteristics	Cahill, Katie
72	Augustus White	College Scholars Program	The Medicaid Expansion: Modeling of Important Factors in State Decision Making	Cahill, Katie
73	David Leventhal, Meghan H Russell, Kali Williams	Social Science Education	The Geography of Opiate Addiction, Overdose, and Treatment in Tennessee	Li, Yingkui

74	Alexandra Buccelli	Psychology	Examining the Relationship between Intimacy and Parenting Problems	Gordon, Kristina
75	Auva Attar	Psychology	Mindfulness and Attachment Anxiety in Overall Life Satisfaction	Welsh, Deborah
76	Taylor Duncan, Kamilya Gosmanova	Psychology	Regulatory Focus and Discrete Emotions in Gaming Situations	Larsen, Jeff
77	Alexis Hall	Psychology	Tennessee Junior 4-H Camp Curriculum: Creating, Implementing, and Evaluating Educational Programming Using Research-Based Practices in Youth Development and Instructional Design	Richards, Jennifer
78	Ashley Kuelz, Shichie Kuribayashi, Nicholas Alvaro	Psychology	Do facial Expressions Influence Affective Experience? A Meta-Analysis	Larsen, Jeff
79	McKenzie Martin, Holly Flatt	Psychology	Attention-Deficit/Hyperactivity Disorder (ADHD) and Reading Abilities: A Comprehensive Review	Bolden, Jenn
80	Meredith Denney	Psychology	Emotion Dysregulation Explains the Association Between Borderline Personality Traits and Cyber Dating Abuse Perpetration Among College Students	Stuart, Gregory
81	Sara McCurry, Jennifer Bishop, Ashley Morris	Psychology	Role Balance and the Transition to College: A Longitudinal Study	Welsh, Deborah
82	Daniel Ford	Anthropology	The Impact of Generational Culture on the Perception of Diversity and People in Beer Advertising on Instagram	Pendry, De Ann
83	Courtney Cantrell	Economics	The Effect of Student Loan Debt on Homeownership	Cahill, Katie
84	Reagan Yessler	Geography	The Livability of Shakespeare's London	Foresta, Ronald
85	James Smith	Geography	The Spatial Migration Patterns of Younger Versus Older Adults and Educated Versus Non-Educated Adults in Tennessee	Nagle, Nicholas
86	Gabriella Larose	Philosophy	Refugee and Terrorism: An Empirical Analysis of Refugee Flows and Domestic and Suicide Terrorism	Sharma, Hemant

87	Adriana Ortega	Political Science	The Power of Representation: The Role of Latin American Female Heads of State in the Reduction of Gender Based Violence	Wilford, Allan
88	Dana Conzemius	Psychology	Gender Role Beliefs and Emotion Dysregulation as Risk Factors for Dating Abuse Perpetration Among College Men in Southern Appalachia	Stuart, Gregory
89	Eric Zayas Jr. David March	Psychology	The Harmful Effect of Gender Priming on Quantitative Problem Solving in Females	Olson, Michael
90	Madison Newsom	Psychology	Generalizing across Speaker and Gender During Early Word Learning: Evidence from a statistical Learning Paradigm	Hay, Jessica
91	Keeley Shea	Economics- Arts & Sciences	Women in Elected Office	Cahill, Katie
92	Mikaela Trussell	Psychology	Rape Myth Acceptance and Alcohol-Related Expectancies as Predictors of Sexual Assault Perpetration	Stuart, Gregory
93	Aya Barnes	Sociology	Environmental Racism: Flint Water Crisis	Bohon, Stephanie
94	Haley Boles	Sociology	The Department of Environmental Quality's Role in Impression Management During the Flint Water Crisis	Cable, Sherry
95	Jordan Kaset	Sociology	Lethal Water Switch: A Matter For Criminology	Presser, Lois

Haslam College of Business

Poster #	Student Name	Major	Title	Faculty Mentor
96	Gilbert Gilchrist	Accounting	The Impact of Regulation on Firm and SEC Behaviors	Chyz, James
97	Terence Williams	Accounting	Auditor-Provided Tax Services and Audit Quality: Insights from Tax Comment Letters	Cunningham, Lauren
98	Steven Powlis	Accounting	Powlis Cleaning	Graves, Tom
99	Thao Tran	Business Analytics	Evaluating Quality Score of Google AdWords	Ballings, Michel
100	Joseph Trice	Accounting	Financial Alignment on Physician Performance	Bichescu, Bogdan
101	Nainika Sudheendra	Supply Chain Management	Melton Research Presentation	Willems, Sean

102	Elizabeth Nichols	Statistics	Market Basket Sampling with Co-purchase Correlation	Zhou, Wenjun
103	Lauren Patterson	Economics	The Pricing Impact of Decreasing Competitiveness of the Health Insurance Market	Harris, Matt
104	Kristen Purcell	Accounting	State Aid: How Economic Development Trumps Tax Revenue	Luna, Leann
105	Richard Goyette	Economics	The Cost of Child Care and Its Effect onFfemale Labor Force Participation.	Compton, Benjamin
106	Kendall Bard	Finance	Does Winning Eurovision Impact a Country's Economy?	Holladay, James
107	Chrisse Lam	Finance	The Trump Effect on the Health Care Sector	Cole, Laura
108	Gregory Gilbert	Accounting	Hurricane Matthew: Measuring the Stock Market Reaction on the Insurance Industry	Cole, Laura
109	Samuel Paganelli	Accounting	The Next Recession: Is it Time?	Cole, Laura
110	Adam Impellizzieri	Supply Chain Management	What Makes Us Happy? A Deep Dive Into Subjective Well-Being and its Cultural Provenances.	Adeleye, Ifedapo
111	Emeline G Brown	Supply Chain Management	Paid Maternity Leave in the United States: What's the Holdup?	Barksdale, Cheryl
112	Caroline Conley	Business Analytics	FoodScape Knox	Graves, Thomas
113	William Barnette	Economics	The Executive Insider Business Plan	Graves, Thomas
114	William Trapnell	Accounting	Free For The Fort	Graves, Thomas
115	Elaine Greenfield	Supply Chain Management	Obtaining and Sustaining a Competitive Advantage Through the Customer Experience	Miller, Alex
116	Madison Hamilton	Finance	Can Retail Consumerism Help To End World Poverty?	Miller, Alex
117	Margaret Potente	Business Analytics	How do Fast Food Retailers Translate Domestic Brand and Reputation as They Expand Internationally: Promises and Pitfalls	Smith, Anne
118	Brennan Galbraith	Supply Chain Management	Batter Up	Youngs, Lynn
119	Kevin Canfield	Marketing	Pick Up n' Play: Changing the World of Pick-Up Sports	Youngs, Lynn

120	Chelsea Schulz	Marketing	Hearth and Home, Renovation & Design L.L.C.	Youngs, Lynn
121	Sophie Lange	Economics	Holistic Health Solutions - Business Plan	Youngs, Lynn
122	Mary McCullough	Supply Chain Management	How the Internet of Things Can Help Reduce Supply Chain Wastes	Autry, Chad
123	Joseph Dobbs	Supply Chain Management	A Comparison Between the Environmental Initiatives Practiced by Sustainable Companies and the Environmental Initiatives Valued by Workers	Bell, John Edward
124	Brandon Carpenter	Supply Chain Management	An Overview and Analysis of the Impacts of Extreme Heat on the Aviation Industry	Holcomb, Mary
125	Victoria M Clements	Supply Chain Management	Rethinking University Operations: Applying Circular Economy Concepts at the University Level	Mollenkopf, Diane
126	Matthew Guinn	Supply Chain Management	Supply Chain Sustainability: Understanding the Financial Impact	Mollenkopf, Diane
127	Rahim Tejani	Supply Chain Management	Cracking The Bullwhip Effect	Mollenkopf, Diane
128	Hannah Wunschel	Accounting	Smarter Work Scheduling: How Telecommuting Weakens the Relationship between Commute Time on Turnover Intentions	Moon, Mark
129	Francis Murphy	Supply Chain Management	Supplier Network Mapping for Sustainability Dispersion	Tate, Wendy
130	Sonja Lipman	Child and Family Studies	Contact with the Criminal Justice System, Social Support, and Depressive Symptoms in Women	Johnson, Elizabeth

College of Communication and Information

Poster #	Student Name	Major	Title	Faculty Mentor
205	Lia Lombino, Jamie Shapiro	Communication	Using Meisenbach's Typology to Classify Stigma Management Strategies and their Lasting Effects	Jenny Crowley
206	Elle Johnson	College Scholars Program	Implementing Social Support Towards the Nutritional Needs of College Freshmen	Laura Miller

College of Education, Health and Human Sciences				
Poster #	**Student Name**	**Major**	**Title**	**Faculty Mentor**
132	Kevin Treadway, Kayley Davis	Child and Family Studies	Does Hookup Partner Type Matter? Condoms, Drunkenness, and Emotional Reactions	Olmstead, Spencer
133	Brandon Clendenin	Kinesiology	Use of Consumer Physical Activity Monitors for Estimating Energy Expenditure in Youth	Crouter, Scott
134	Corinne Oliphant	Management	A Comparison & Discussion of Concussion Protocols for Youth in Tennessee	Hardin, Robin
135	Miguel Aranda, Alvin Morton, Derrick Yates	Kinesiology	Indoor Group Cycling Participation, Anthropometric Variables, and Blood Pressure	Hornbuckle-Lampkin, Lyndsey
136	Ethan Schaltegger	Kinesiology	Feasibility of Using Personally Adaptive Physical Activity Prompts	Strohacker, Kelley
137	Summer Smith	Nutrition	Zyflamend Attenuates High Fat Diet-Induced Obesity in Mice	Bettaieb, Ahmed
138	Ainsley Ellington	College Scholars Program	Relationships between Youth's Assessed Dietary Quality, Youth Social Characteristics, and Familial Mealtime Practices	Colby, Sarah
139	Magen Payne, Ainsley Ellington, Sa'Nealdra Wiggins, Chelsea Allison	Nutrition	iCook 4-H: Child's Independence and Resilience Associated with Parental Involvement in Family Mealtime Settings	Colby, Sarah
140	Janelle Chavarria	Nutrition	The Effect of Dietary Fiber on Satiation	Raynor, Hollie
141	Megan Prather	Nutrition	Differences in Recommended Intakes of Nutrients and Actual Consumption as Reflected in Plate Waste Study	Spence, Marsha
142	Morgan Hartgrove	College Scholars Program	An Examination of Treatment Protocol for Infants with Neonatal Abstinence Syndrome	Meschke, Laurie
143	Julianna Deal	Psychology	Brand Communication in a Large Consumer Goods Company: A Case of The Coca-Cola Company	Childs, Michelle

College of Nursing

Poster #	Student Name	Major	Title	Faculty Mentor
144	Michael J Curtis	Nursing	The Voices of Photos: Transition to Adulthood in Lower Income Emerging Adults with Type I Diabetes Mellitus	Abdoli, Samereh
145	Carolynn E Clemons, Megan B Hodge, Sean Lenihan	Nursing	Interventions to Increase Nursing Retention: An Evidence-Based review of existing literature	Koszalinski, Rebecca
146	Ashlee Munoz, Jordyn Voyles, Anna Toldi	Nursing	The Impact of Physical Activity on Obesity in Elementary Students' Cardiovascular Health in Knoxville, Tennessee	Koszalinski, Rebecca
147	Starla Smith	Nursing	Emotion-Focused Coping Among Individuals with Fibromyalgia	Anderson, Joel
148	Madison Myers, Samantha Anasky, Elizabeth Gore, Matthew Mustard, Alexandra Schafer	Nursing	Pain Reduction in a Virtual World	Koszalinski, Rebecca
149	Haley Salava, Chelsea Cudak, Elizabeth Gasnow, Jennifer L Matteson	Nursing	The Impact of Male Circumcision on Genitourinary Infection Rates	Koszalinski, Rebecca
150	Megan Borgmier	Nursing	The Needs of Caregivers of NICU Graduates	Bland, Tami
151	Shawna Spurgeon, Coulisse Bialic-Murphy, Chasity Coffey	Nursing	Mood-Matched Music, a Nursing Intervention for Reducing Anxiety of Cardiac Patients	Koszalinski, Rebecca
152	Rachal Wall, Alex Bond, Haylee Wittman, Elisabeth Hobbs	Nursing	Evaluation of Reliability of Screening Tools to Identify Those Who Experienced Adverse Childhood Events	Koszalinski, Rebecca
153	Austin Smith	Nursing	Increasing Vaccination Rates Among College-Aged Males	Bland, Tami
154	Alexandria B Dunn, Savannah C Elliot, Isabella W Chu, Savannah Osborn	Nursing	Catheter Associated Urinary Tract Infection Prevention: A Review of the Literature	McLennon, Susan
155	Laura E Harmon, Celeste Miller, Brooke Reinhardt, Erin Worely	Nursing	The Role of Education in Reducing CLABSI Rates: A Review of the Literature	McLennon, Susan
156	Hannah Anderson	Nursing	End of Life Care Disparities in the Hispanic Community	Brown, Mary

157	Angela McPeek, Madison Stanley, Eleanor Osteen, Margaret Edwards	Nursing	Laughter Therapy in Nursing Homes to Increase the Quality of Health: A Review of Literature	McLennon, Susan
158	Kimberly Phung, Sarah Vance, Jordan Gause, Lindsay Garner	Nursing	Hand Hygiene Compliance from Nurses to Reduce Hospital Acquired Infections in Pediatric Patients	McLennon, Susan
159	Morgan Vantrease	Nursing	Cuddling in NAS	Chyka, Deb
160	Erin Anderson, Alexa Tietgens, Matthew Lopez, Julia Workman	Nursing	CAM Therapy Lowering Blood Pressure in Outpatient Cardiovascular Rehabilitation: A Literature Review	Thompson, Kathleen
161	Elizabeth Anna Atkins, Chelsae Elizabeth Parris, Karley Eileen Smith, Carly Brooke Sturgill	Nursing	The Effects of Uniform Laundering Techniques on the Rate of Cross-Contamination by Nurses	Thompson, Kathleen
162	Malerie Lazar	Nursing	The Experience of Access to Care Among Persons with a Low Family Income	Davenport, Lisa
163	Lajerica Bates, Anelia Rizzo, Kayla Batts, Megan Seal	Nursing	Using the Picture Exchange Communication System to Improve Communication in Children with Autism	Thompson, Kathleen
164	Kimberly Carter, Alyssa Richardson, Sloan Phillips, Madison Coker	Nursing	Evaluating Nursing Interventions and their Effectiveness on Decreasing Readmission Rates in Medication Nonadherent CHF Clients	Thompson, Kathleen
165	Chelsea Smith	Nursing	Parental knowledge of Adverse Childhood Events and their Effect on Health and Substance Abuse Disorders	Davis, Sharon
166	Gina Cianciolo, Mollie Light, Jessica James-Schultz, Laurel West	Nursing	Aromatherapy Use in Chemotherapy: A Review of the Literature	Thompson, Kathleen
167	Sara Colby, Andrew Collier, Taylor Warren, Nicholas A McGaha	Nursing	Effectiveness of Music Therapy for Pain Relief in Pediatric Oncology Patients	Thompson, Kathleen
168	Emeri Allan	Nursing	Assessing the Impact of Canine-Assisted Activities on Middle Adult Patients in the Trauma Setting Using Physical Parameters	Elliott, Lizanne
169	Bailey Fox, Anna Hoppestad, Hannah M Grant, Vivian Pham	Nursing	Effects of Birthing Positions on Labor and Delivery	Thompson, Kathleen

170	Abigail N Graves, Summer Gourneau, Chelsie Graves, Alissa Nash, Hannah Bass	Nursing	Effectiveness of Hourly Rounding on Patient Falls	Thompson, Kathleen
171	Mary Wilson	Nursing	Parental Support in Home Environment for Children in a School-Based Obesity Program	Elliott, Lizanne
172	Lauren Jannetty, Sarah Hurlock, Alessandra Moruzzi, Carolyne Ruffin, Eva Wehr	Nursing	Pain Prevention Methods for Childhood Vaccinations	Thompson, Kathleen
173	Joshua Lippincott, Katherine Harbolt, Kathleen Mcinnis, Kate Johnston	Nursing	Effectiveness of Oral Care in Reducing Ventilator-Associated Pneumonia in Intensive Care Unit Patients	Thompson, Kathleen
174	Caitlin Cartwright	Nursing	Barriers to Mental Health Screening in Rural Adolescents	Harper, Amanda
175	Heather MacKenzie, Adriann Evans, Abigail Davis, Lucia Chalmers, Quynh Ngo	Nursing	Evaluating Effectiveness of Different Distraction Techniques Among Pediatric Patients	Thompson, Kathleen
176	James McKenzie, Matthew Smith, Wade Collins, Kathleen Clarke	Nursing	Examining Low-fidelity Simulation to Improve Nursing Student Assessment Reducing Cognitive Load	Thompson, Kathleen
177	Avie Joyce, Stefanie Schumacher	Nursing	Role of Healthcare Providers in Combating Sex Trafficking in Knoxville, Tennessee	Hurt, Maria
178	Brittany Melvin, Angel Jarrell, Emma Totillo, Riley Monigan	Nursing	Detrimental Effects of Horizontal Violence in the Workplace	Thompson, Kathleen
179	Jesica Miller, Kristen Halstead, Rebecca Stooksbury, Olivia Russell	Nursing	Preventing Childhood Obesity by Physical Activity: A Review of the Literature	Thompson, Kathleen
180	Gillian Harris	Nursing	The Psychosocial Responses to and Decision-Making Strategies of Hereditary Cancer Genetic Panel Testing	Hutson, Sadie
181	Abigail Overholt, Andie E Cunningham, Peyton Miller, Whitley Thaxton, Sofi Grayson	Nursing	Hourly Rounding to Decrease Patient Falls	Thompson, Kathleen

182	Lera Pearson, Haley Edwards, Sophia Lively, Sara Wellsandt	Nursing	Analysis of Interventions Used in Prevention of Burnout in Nurses	Thompson, Kathleen
183	Karen Carcello	Nursing	Communication Difficulties in Stroke Survivors with Aphasia: A Literature Review	McLennon, Susan
184	Brittany Reeves, Ashely Epperly, Rylie Stephens, Kaleigh Malkes	Nursing	Kangaroo Care	Thompson, Kathleen
185	Olivia Riley , Amber Baldwin, Savannah Brueher, Sara Murphy, Grace Sullenger	Nursing	Music Therapy to Treat Agitation in Dementia: A Review of the Literature	Thompson, Kathleen
186	Jordan Riggins	Nursing	Evaluating a Novel Music Program Experience for Community-Residing Older Adults	McLennon, Susan
187	Morgan Rutanwoods, Emily Gardner, Selena Srisourath, Micah Ashlock	Nursing	Comparison of Observation Methods Used to Increase Hand Hygiene Compliance	Thompson, Kathleen
188	Meredith Simmons, Lillian Hixson, Sara Jefferson, Camera Foster	Nursing	The Effects of Reiki Therapy on PRN Opioid Pain Medication Use Among Postoperative Patients	Thompson, Kathleen
189	Whitney Stone	Nursing	Recreated Culturally Acceptable Advance Directive for Persons Experiencing Homelessness	Mixer, Sandy
190	Emily Spence, Marcy Spikes, Augustus Osgood, Daniel Linebaugh, Copeland Cobb	Nursing	Shift Work and Its Impact on Nurse Health (Obesity and Fatigue)	Thompson, Kathleen
191	Meredith Hudson	Nursing	Needs and Concerns of Individuals in the Medicaid Gap	Myers, Carole
192	Alexandra Stewart, Emily Banks, Linzi Mcconnell, Kathleen Hill	Nursing	The Effects of Step Tracking on Obesity in Nurses: A Literature Review	Thompson, Kathleen
193	Brianna Fiala	Nursing	Stigma in Persons with Mild Cognitive Impairment and their Caregivers	Rose, Karen
194	Elena Stewart, Claudia N Segovia, Chikaosoro E Igwe	Nursing	Evaluating the Effectiveness of the SBIRT Assessment Tool for Identifying Opioid Substance Abuse in Women of Reproductive Age	Thompson, Kathleen

195	Madison Taylor	Nursing	Western Medicine and Non-traditional Treatment of Pain in the Laboring Woman	Taylor, Sheila
196	Virginia Williams, Leila Bangash, Sarah Stone, Aziza Ismoilova, Sophie Wilk, Rachel Depriest	Nursing	Kangaroo Care and its Impact on Infant Weight Gain and Length of Hospital Stay	Thompson, Kathleen
197	Bailey Akins	Nursing	Assessing Prenatal Nutritional Information Access, Sources, and Habits in East Tennessee	Taylor, Sheila
198	Mallory Lanier Caroline Carter	Nursing	Neonatal Abstinence Syndrome Treatment Protocols and Long-Term Deficits	Tourville, Jennifer

College of Social Work

Poster #	Student Name	Major	Title	Faculty Mentor
199	Abigail Geater	Social Work	A Technological Platform for Decentralized Response to Reproductive Health Disparities: From Innovation to Community Support	Berenstain, Nora
200	Abigail Geater	Social Work	Macrolevel Preventive Indicators of Maternal Incarceration Rates in Tennessee	Choi, Sunha
201	Amber Hale	Social Work	Characteristics US Children Entering Foster Care	Choi, Sunha
202	Sarah Henson	Social Work	The Population Characteristics of Children Served by a School-Based Interprofessional Clinic	Choi, Sunha
203	Olivia Seay	Social Work	Spiritual Practices and Education of End-of-Life Care Professionals	Choi, Sunha
204	Ashlie Seibers	Social Work	Child Welfare Professionals' Attitudes and Knowledgeability on Serving LGBTQ+ Youth	Choi, Sunha

Research Posters and Creative Works

Presented on Tuesday, April 17, 2018

Honors English 298, College of Arts & Sciences

Poster #	Student Name	Title	Faculty Mentor
207	Alexander, Mckenna	Columbus Day: Should it be Celebrated?	Gentry, Elizabeth
208	Anderson, Joseph	The Decline in Trust in the US Media: A Qualitative Study	Brouwers, Marcel
209	Anderson, Westena	Thick as Fleas on a Dog's Back: Appalachian-isms, Intelligence, and Employability	Addicott, Randi
210	Apostoaei, Alec	Incentivizing Pharmaceutical Companies: Comparing Different Incentive Mechanisms' Effects on Researching Understudied Diseases	Gentry, Elizabeth
211	Aspden, Chase	Effects of Paying College Athletes	Dean, Lance
212	Baek, Eunice	The Effects of a Tuition-Free College Education	Dean, Lance
213	Baird, Aidan	Why the University of Tennessee Should Produce its own Biodiesel	Newburn, Harry
214	Baljepally, Vinila	Current Environmental Standards on the Impact of Systemic Discrimination by Improper Waste Disposal	Addicott, Randi
215	Banick, Mary	Peeling Back the Layers: The Effect of the Onion and Other News Satire on the Political Attitudes of Students	Nicks, Robin
216	Barkeloo-Carter, Audrey	The Effects of Gender Inequality on Power, Social Structure, and the Development of Relationships	Addicott, Randi
217	Barnhill, Bailey	Ghostwriting: The Truth Behind Authorship	Barrow, Robin
218	Barre, Faith	Effective Marketing and Benefits of Study Abroad Programs	Newburn, Harry
219	Bell, Olivia	Female Gender Roles in the First Disney Princess Movie: To What Extent Does Disney's Snow White and the Seven Dwarves Reinforce Restrictive Feminine Ideals?	Newburn, Harry
220	Benson, Eric	Music to My Brain: Music's Role as a Therapeutic Tool with Relation to Mood and Personality	Gentry, Elizabeth
221	Bess, Daniel	On English Loanwords in the Spanish Language	Newburn, Harry
222	Black, Marlo	Canine Breed-Based Policy: how Aggression Stereotypes Influence them and How They Need to be Revised	Murphy, Samantha
223	Blokland, Lara	How Darwin's Theory of Evolution Divided Scientific and Christian Worldviews	Murphy, Samantha

224	Bond, Brianna	The Public's Opinion on Nuclear Fission	Brouwers, Marcel
225	Boone, Kassidy	Sports Leadership Without Women	Dean, Lance
226	Borsari, Rowan	The Effects of Socialization Practices on Korean Adoptees in the United States	McCue, Kristina
227	Bowman, Hannah	Waste Not, Want Not: Explaining and Reducing Excessive Food Waste in University Dining Halls	Gentry, Elizabeth
228	Bowman, William	The Necessity to Redefine Medicine	Newburn, Harry
229	Brawner, Anna	Public Health Education: An Analysis on Its Effects on Health Promotion and Disease Prevention	Nicks, Robin
230	Breu, Elizabeth	Education: How to Bridge the Gap Between Teacher and Student	Gentry, Elizabeth
231	Bronson, Alice	The Roman Family of Antiquity: Determining that Affection was Present Among Familial Institutions	Gentry, Elizabeth
232	Bruns, Jessica	Environmental Impact on Personality: Detecting Destructive Personalities in Child Development	McCue, Kristina
233	Buckley, Jesse	Deficiencies in Space Law: Intrinsic Flaws of the Outer Space Treaty with Respect to Militarization	Murphy, Samantha
234	Burnside, Michael	Artificial Intelligence and Implementation	Newburn, Harry
235	Bustamante, Carolina	The Last One Percent: Prison Healthcare and American Community	Addicott, Randi
236	Cable, Miranda	Looking to the Future: Technology's Impact on Jobs	Gentry, Elizabeth
237	Cannon, Christopher	Playing the System: How Gaming Can Foster Valuable Skills for Engineers	Gentry, Elizabeth
238	Canupp, Hayes	Comparing the Effects of Sleep and Breakfast on Academic Performance	Newburn, Harry
239	Carlton, Emily	Impact of Nutrition and Diet on Performance of Endurance Athletes	Barrow, Robin
240	Carter, Zoe	Exigence and Justifications of Altruistic Lies in Medicine:A Qualitative Study	Brouwers, Marcel
241	Caughman, Elizabeth	Government Transparency in a Modern Age	Addicott, Randi
242	Chu, Phillip	Potential Correlations Between Mass Shootings and the Media: A Qualitative Study	Brouwers, Marcel
243	Cianciolo, Paul	Nature's Benefits: Personal, Societal, and Economic Impacts of Restoration	Newburn, Harry
244	Clark, Allison	Perception of Toxic Masculinity Amongst College-Aged Men	Nicks, Robin
245	Colletti, Caleb	Are Serial Killers Born or Made: An Analysis of what College Freshmen Think About Nature Versus Nurture	Nicks, Robin
246	Corbin, Nicholas	Archaeological Looting: A Socioeconomic Solution for a Past World Problem	Gentry, Elizabeth

247	Coulter, Brian	The Politics of Engineers	Barrow, Robin
248	Cousins, Elizabeth	The Effects of Continued Education on Marriage Age	Nicks, Robin J
249	Cowell, Sophia	Reducing Recidivism in America: Implementing More Effective Education for Juvenile Offenders	Murphy, Samantha
250	Crocker, Caroline	The Dangers of Social Media: How It Influences Opioid Abuse in College Students	Murphy, Samantha
251	Crowe, Sydni	Understanding the Moral Effects of Business Students on the Simultaneous Study of Business Ethics and Profit Maximization	Brouwers, Marcel
252	Da Ponte, Olivia	The Power of Music In Benefitting the Neural Health of Humankind	Dean, Lance
253	Dallas, Jamie	Psychology, Society, and the System: Barriers to Mental Health Care Access	Barrow, Robin
254	Davenport, Tristan	Is Engineering a Stable Career?	Barrow, Robin
255	Davidson, Alexa	Is Architecture Not Talking About Its Sexual Harassment Problem?	Dean, Lance
256	Davidson, Alexandra	“How to Make A Baby”: Ethical Opinions on Genetically Modified Embryos from Undergraduate Pre-Medical Students	Nicks, Robin J
257	Davis, Joshua	A Historical Analysis of Financial Practices and Their Relationship to Individual Prosperity	Newburn, Harry
258	Delk, Nathan	The Effects of Physical Deterioration in Zero Gravity on the Advancement of Space Travel	Barrow,
259	Depersio, Richard	Alcoholism and Acculturation: an Examination of Environmental Influence on Addiction	McCue, Kristina
260	Dharsandia, Jay	Public Perceptions and Misconceptions of Nuclear Power	Barrow, Robin
261	Diaz, Amber	To B or not to B: The Greek Dilemma	Nicks, Robin
262	Dixon, Jonathan	Using Tasmanian History to Disprove the Martian Utopia	McCue, Kristina
263	Doran, Evan	Modern Media and Politics: The Impact of "Fake News"	Newburn, Harry
264	Drum, Emma	Gender Bias in STEM: A Qualitative Study	Brouwers, Marcel
265	Dudrick, Luke	Examining Low Voter Turnout in the United States	Barrow, Robin
266	Dukes, Michael	The Relevance of "Fake News" in America Today	Newburn, Harry
267	Dylewski, Racheal	Sentiment Analysis in Social Media	Dean, Lance
268	Edwards, Cassidy	Standardized Testing and the Positive Correlation Between Anxiety and the Education System in America	Murphy, Samantha
269	Edwards, Luke	Salutary Neglect: The Effects of 18th Century British Power Systems on the Cause of the American Revolution	Addicott, Randi

270	Elbon, Claire	Bridging the Chasm: Undergraduate Education and Graduate Research in the Biological Sciences.	Barrow, Robin
271	Ellis, Amanda	Why America Should Establish a Legal Organ Market	Murphy, Samantha
272	Ely, Jenna	“The War Photo No One Would Publish”: A Comparison of Public Knowledge During the Gulf War and Vietnam War	Addicott, Randi
273	Emerson, Ailsa	Separating Politics from Studies: How Political Science Majors Form Political Beliefs	Nicks, Robin
274	Erickson, Cole	The Ethical Dilemma of Precise Genetic Engineering	McCue, Kristina
275	Estepp, Allyson	Gene Therapy: The Controversy Surrounding a Revolutionary New Medicine	Murphy, Samantha
276	Everett, Matthew	Decreased Federal Funding for Research Amplifies Concern Among Scientists	Dean, Lance
277	Fader, Galen	How Does Fake News Impact Society?	Barrow, Robin
278	Fahhoum, Josiah	An Analysis of Health Care: the Underlying Issues with the U.S. Health Care System	Newburn, Harry
279	Farrar, Emma	The Palaeolithic Diet: Is It the Best Option for Individuals with Obesity or Metabolic Diseases?	Gentry, Elizabeth
280	Feathers, Rebecca	How do Depression and Anxiety Treatments Differ Across Cultures?	Barrow, Robin
281	Fiet, Lucas	Retail Monuments: The Changing Face of American Shopping Malls	Newburn, Harry
282	Fischer, Robert	An Exploration into the Growing Nihilist Persona Created by generations X, Y, and Z Resulting in Popularized Challenges Such as the Tide Pod Challenge.	Addicott, Randi
283	Fox, Kelly	Representation of Sharks in the Media	Brouwers, Marcel
284	Franklin, Anna	The Role of Conformity and Obedience in Dance Injuries	Addicott, Randi
285	French, Camille	The Heritability of Trauma: Its Mode of Transmission and the Implications for Medical Treatment	McCue, Kristina
286	Frohlich, Brooke	Healing the Digital Divide: Bringing Broadband to Rural Areas	Addicott, Randi Marie
287	Galyon, Sarah	Is Zero Waste Living a Waste of Time?	Addicott, Randi
288	Gangloff, Nicholas	Twitter and the Democratization of Language and Content	Addicott, Randi
289	Genereaux, Zachary	Fighting Back: The Impact of Virtual Reality on Treating PTSD in Combat Veterans	Murphy, Samantha
290	Gilson, David	Virtual Reality: A Reality Improvement?	Gentry, Elizabeth
291	Gingerich, Olivia	Psychology of Architecture: How Designers Control the Spaces They Create	Addicott, Randi
292	Glass, Katherine	'Planet X' as a Conspiracy Theory: A Qualitative Study	Brouwers, Marcel

293	Goluoglu, Ashley	Ménage à Moi: Female Masturbation and Confidence in Western Culture	Murphy, Samantha
294	Gowda, Chaitanya	Melungeon Identity: The Effects of History and Genetic Discovery	McCue, Kristina
295	Green, Jacob	A Polity Apology: Investigating the Understanding of Political Apology	Nicks, Robin
296	Grizzard, Lane	The Effect of Teacher Turnover on the Achievement Gap	Addicott, Randi
297	Hammon, Julia	Social Media and Politics	Addicott, Randi
298	Hardin, Elijah	How Video Games Can be Used to Enhance Education	Murphy, Samantha
299	Hawks, Sarah	English 298 Qualitative Abstract	Dean, Lance
300	Heard, Braxton	Faith: Where Religion and the Real-World Meet	Nicks, Robin
301	Heck, Zophia	The Impact of Imported Superfoods	Newburn, Harry
302	Hendrix, Emma	Rapid Disappearance: Exploring the Social and Economic Effects of Tropical Deforestation	Nicks, Robin
303	Henley, Danyel	The Illegitimacy of “Race” as a Heritable Marker	McCue, Kristina
304	Hessock, Emma	The Need for Better Education About the Poultry Industry for the Common Consumer	Newburn, Harry
305	Hewitt, Jacob	A Major Choice: Methodologies Utilized by Undergraduate Students to Determine Their College Major	Nicks, Robin
306	Hickman, Peyton	The Modern Approach to Designer Babies	Addicott, Randi
307	Hicks, Philip	Video Games, Aggression, and Internet Gaming Disorder: Where We Stand Today	Gentry, Elizabeth
308	Hill, Ashtyn	Mother's Perceptions on Genetic Engineering	Nicks, Robin
309	Hill, Nicholas	How Political Polarization Affects Fake News	Brouwers, Marcel
310	Holt, Sarah	Social Media Marketing: A Necessity	Addicott, Randi
311	Horn, Anna	Smartphone Addiction and its Potential Dangers	Barrow, Robin
312	Hounshell, William	College Students’ Perceptions of Physical Education in Grades K-12	Nicks, Robin Jean Gray
313	Houston, Austin	The Eastern Hemlock: Preserving a Population in Decline	Murphy, Samantha
314	Houston, Briley	The Effects of Architectural Determinism	Addicott, Randi
315	Hovdet, Abigail	A Flexitarian Diet	Newburn, Harry
316	Howe, Caroline	False Propaganda in Nazi Germany: A Qualitative Study	Brouwers, Marcel
317	Howell, Bryson	Positive Human-Robot Interaction: How Social Robots Will Shape the Future	Addicott, Randi
318	Howell, Spencer	Bit by Bit: Building Effective Bitcoin Regulation	Gentry, Elizabeth
319	Huff, Eva	The Currently Inescapable Cycle of Nurse Turnover and its Inextricable Link to Stress and Salary	Dean, Lance

320	Huffstetler, Benjamin	The Ethical Dilemmas Inherent in Medical Research	Barrow, Robin
321	Hunt, Ashley	The Impact of Celebrity Advocacy and Human Trafficking Coverage	Murphy, Samantha
322	Hurley, Rachel	It's More Than Just a Game: Perceptions of the Professional Sports Industry	Nicks, Robin
323	Hyde, Thomas	To Pimp a Butterfly's Impact on the Hip-Hop Community	Barrow, Robin
324	Ingell, Sarah	Studying Abroad: Its Benefits and Advantages for College Students	Dean, Lance
325	Iqbal, Omar	Mental Media	Newburn, Harry
326	Jansen, Matthew	The Cost Effectiveness of Tissue Engineering and Effect on Economic Accessibility	Newburn, Harry
327	Jarjoura, Joelle	Teacher and Student Perceptions of Online Versus Traditional Courses	Dean, Lance
328	Jenkins, Cooper	Analyzing the Adequacy of High Schools	Newburn, Harry
329	Johnson, Sierra	The Use of Companion Animals as an Alternative or Aid to Medication	Murphy, Samantha
330	Jones, Gavin	The Truth: Why We See Monsters	Murphy, Samantha
331	Jones, Hannah	The Role of Age in Briony's Narrative in Atonement	Addicott, Randi
332	Joshi, Ketaki	Cash or Code: Are Cryptocurrencies More Efficient than Conventional Cash?	Murphy, Samantha
333	Judd, Lexie	Ramifications of Unpaid Government Internships: A Discussion of How They Promote Elitism and Limit Social Mobility	Dean, Lance
334	Kemp, Mary	Facebook's Battle Against Fake News	Brouwers, Marcel
335	Kesterson, Christopher	Deforestation: A Far Too Common Practice of Environmental Degradation	Gentry, Elizabeth
336	Kirsch, Evan	Male Perception of a Father's Role: English 298 Qualitative Research Project	Nicks, Robin
337	Leblanc, Jonathan	The Threat of Fake News	Addicott, Randi
338	Lee, Mark	Video Game Virus: How the Widespread Recreational Phenomenon Has Become a Pandemic of Addiction in Youth	Murphy, Samantha
339	Leftwich, Olivia	Does Gendered Language Create Gender Stereotypes?	Dean, Lance
340	Liang, Hannah	Finding and Defining Happiness: College Students' Perceptions of Subjective Well-Being	Nicks, Robin
341	Link, Rebecca	Technology and Economy: The Correlation that Will Sustain the Economy of Today’s Third World Countries	Gentry, Elizabeth
342	List, Emily	Public Perspective on Monsanto Genetic Engineering	Barrow, Robin
343	Lloyd, Sarah	An Exploration of the Benefits of Sustainable Building and Renovation on the University of Tennessee’s Campus in Knoxville	Newburn, Harry

344	Maddox, Hannah	Dinosaur Coloration and its Implications on Behavior and Environment	Newburn, Harry
345	Mahaffey, Evan	From the Cradle to College: How Parenting Styles Affect Student Academic Performance	Nicks, Robin
346	Mai, Joshua	Machine Learning and AI in Business	Dean, Lance
347	Maness, Samantha	Working Two Jobs: Challenges in Balancing Engineering and Motherhood	Dean, Lance
348	Marra, Christian	Political Gaming: Playing Video Games as a Medium for Political Engagement, Learning and Discourse	Gentry, Elizabeth
349	Maryanski, Austin	Culture's Effect on Biblical Interpretation: Sexuality in the Church	Dean, Lance
350	Mason, Berkley	The Effects of Parent Dynamics on College Freshman Women	Nicks, Robin
351	McClain, Claire	To See or Not to See: The Complications of Racial Colorblindness	McCue, Kristina
352	Mccusker, Olivia	Benefits of Implementing Therapy Dogs into Collegiate Sports	Newburn, Harry
353	Mcdonald, Delaina	Why People Believe That Vaccines and Autism Spectrum Disorder Are Linked: A Qualitative Study	Brouwers, Marcel
354	Mcginnity, Kevin	The Road to Sustainable Cities: Eliminating Cars	Dean, Lance
355	Mcknight, Maddox	Missed Opportunities in ROTC	Barrow, Robin
356	Mcswain, Charles	The Cause and Consequences of Fake News and North Korea: A Qualitative Study	Brouwers, Marcel
357	Meidl, Timothy	Fake News and War	Brouwers, Marcel
358	Mendoza, Cassandra	Children and Immigration: The Psychological Effect of Multiple Cultures on Identity	McCue, Kristina
359	Miller, Kayla	Integrating the Mind-Body Relationship into the Medical Field: The Effect of Practicing Yoga and Mindfulness for Cancer Patients	Gentry, Elizabeth
360	Millett, Bailey	The Truth about Influenza Shots:Should Parents Have Their Children Vaccinated?	Addicott, Randi
361	Mobbs, Courtney	Making Therapy Better - Virtually: Integrating New Technology to Improve Old Techniques	Newburn, Harry
362	Monarrez, Jesus	The Benefits of Anti-Racist Activism on Society	Addicott, Randi
363	Montgomery, Matthew	A Major Decision: Influences on Freshman Engineering Students	Nicks, Robin
364	Moran, James	Spooky Science: Honors Students' Perception of Genetically Modified Organisms	Nicks, Robin
365	Morris, Nicholas	The CPA in a Changing World	Dean, Lance
366	Morrow, Josephine	Fake News Within the Flat Earth Society's Public Rhetoric	Brouwers, Marcel

367	Morton, James	Future Impacts on Privacy due to the Increasing Use of Social Media by Society and Government Use of Artificial Intelligence	Addicott, Randi
368	Morton-Killeffer, Morgan	Advancements, Effects, and the Importance of Hydrocephalus Procedures	Dean, Lance
369	Moss, Jared	Genetic Modification and Consequential Ethical Implications	Newburn, Harry
370	Myers, Addison	Live Organ Donation Compensation	Barrow, Robin
371	Natale, Alexandra	Thomas Jefferson's Descendants: Genetic Analysis and Family Experience	McCue, Kristina
372	Nix, Jarred	Ecofeminism in the Raw Materials Industry: The Impact of Gender and Organizational Culture on the Environment	Murphy, Samantha
373	Noe, Kimberly	Genome Editing Technologies: The Ethics of Embryo Testing and Clinical Trials	McCue, Kristina
374	Noll, Jacqueline	Reviving Native Culture: The Surge of Cultural Identity in the Postcolonial Belgian Congo	McCue, Kristina
375	Norris, William	Putting Truth into Perspective: A Look into Perspective Truth and the Outcome of Racism in America	Addicott, Randi
376	Nuthalapaty, David	The Way Things Are: Student Perceptions of Racial Biases	Nicks, Robin
377	Oberholtzer, Robert	Fighting Addiction: How Medical Marijuana Can Stem Opioid Dependence and Help Patients Cope with Chronic Illnesses	Murphy, Samantha
378	O'Brien, Shawn	Effects of Parental Instability and Mental Illness on Children During Their Formative Years	McCue, Kristina
379	Pan, Jason	Potential Areas of Improvement in Anaerobic Digestion	Dean, Lance
380	Patel, Akaash	Improvement in Drug Education Programs: Assessing Effectiveness	Dean, Lance
381	Patel, Ankush	General Artificial Intelligence and Machine Ethics	Newburn, Harry
382	Patel, Deneil	Fake News Surrounding Murders and Mass Shootings Abstract	Brouwers, Marcel
383	Patterson, Avery	Effect of Technology on Research Efficacy	Addicott, Randi
384	Patton, Tessa	The Electric Future	Addicott, Randi
385	Paul, Drake	Cryptocurrency's Place in Tomorrow's Market	Newburn, Harry
386	Pearson, Shaun	Artificial Intelligence: Friend or Foe?	Nicks, Robin
387	Pendleton, Jarod	The Gender Communication Problem	Barrow, Robin
388	Penumadu, Rachel	The Chase for a Cure: Alternate Treatments to Neurodegenerative Diseases	Dean, Lance
389	Perkinson, Audriana	A Female Conductor? What a Concept.	Barrow, Robin

390	Perry, Cameron	Is Religion Absent on Campus: Christian Students' Perceptions of Religion and Higher Education	Nicks, Robin
391	Peters, Jessica	Fake News, Bias, and How We All Connect	Addicott, Randi
392	Phillips, Houston	Preventing the Problem: Forming New Municipal Waste Policies in Tennessee	Murphy, Samantha
393	Pool, Nathan	Institutionalized Racism as a Political Tool in America and South Africa	McCue, Kristina
394	Powell, Faith	The Challenges of Female Entrepreneurship: How to Address Them and the Need for Change	Dean, Lance
395	Powell, Hope	Females in Law: The Challenges in Gaining Partnership and the Need for Change	Dean, Lance
396	Pratt, Canaan	A Hot Topic: How Political Parties Have Influenced Perception of Climate Change	Nicks, Robin
397	Price, Wade	Dungeons, Dragons, Parents, and Panic: How RPG Perceptions Changed Over a Generation	Nicks, Robin
398	Pritchard, Benjamin	How Plants Can be Used to Combat Depression, Stress, and Anxiety on College Campuses	Newburn, Harry
399	Pritchett, Justin	The Impact of the Affordable Care Act on the Doctor-Patient Relationship	Newburn, Harry
400	Propes, Kari	The Implementation and Standardization of the Rooming-In Method for NAS Neonates	Gentry, Elizabeth
401	Race, Nicole	Book It: Different Generational Views on Electronic Books	Nicks, Robin
402	Rayder, Christopher	Influence of Metabolism on Gut Microbiome: An Examination of the Symbiotic Relationship Between Host Metabolism and Microbiotal Hetereogeneity	Murphy, Samantha
403	Records, Morgan	Eliminating the Stigma Behind Major Depression Disorder (MDD)	Dean, Lance
404	Reed, Lauren	Communicating in Crisis	Dean, Lance
405	Reid, Cameron	The Burden We Bear: What Humans Can Learn from Observing Manmade Global Warming’s Impacts on the Polar Bear	Murphy, Samantha
406	Remy, Clare	A Woman's Struggle in Medicine: A Qualitative Analysis	Dean, Lance
407	Rhoton, Madison	Digital Walls: Impact of Social Media Use on College Students' Interpersonal Relationships	Murphy, Samantha
408	Richardson, Jarod	The Technical Challenges Halting the Development of Nuclear Fusion	Barrow, Robin
409	Richey, Alexandra	Nevertheless, They Persist: How College Women Perceive Modern Feminism	Nicks, Robin
410	Richter, Alexander	Impact of Undergraduate Research on College Life	Dean, Lance
411	Roberts, Abigail	The Politics of Fake News	Addicott, Randi
412	Roberts, Micah	The Role of Mathematics and Technology in Modern Music	Newburn, Harry

413	Roe, Kathryn	College is Casual: Motivations Behind the College "Hookup Culture"	Nicks, Robin
414	Rucinski, Mason	Morality of Genetic Engineering	Nicks, Robin
415	Ruleman, Hattie	Digging Up Definitions: The Real Definition and Value of Treasure Hunters in the Archaeological Field	Gentry, Elizabeth
416	Saksena, Nihar	Do the Risks of Xenotransplantation Outweigh the Benefits?	Barrow, Robin
417	Salameh, Mustafa	The High School Effect: Which Type of Schooling Best Prepares Students for College Success Outside of the Classroom?	Nicks, Robin J
418	Sallee, Abigail	Exploring Continued Social Media Usage in Young Adults Despite Negative Effects	Dean, Lance
419	Samar, Jacob	An Investigation Into the Network Security of Major Companies	Addicott, Randi
420	San Miguel, Emalyn	High Aspirations for Low-Income Students	Addicott, Randi
421	Scott, Heather	Community Health Depends on Responsible Parents: How a Parent's Choice to Reject Vaccinations Affects the Health of the Community.	Murphy, Samantha
422	Shannon, Laura	The Origin and Rationalization of Japan’s Eugenic Protection Law	McCue, Kristina
423	Shipley, Jordan	Generational Perspectives on Apologetics	Nicks, Robin
424	Shoffner, Grace	The Impact of the Built Environment on Human Well-Being	Newburn, Harry
425	Shuttleworth, Mary	The Impact of Harry Potter	Addicott, Randi
426	Shymlock, Hayden	The Human Genome Project: Creating a Healthy Future	Barrow, Robin
427	Sims, Kayla	Forever Alone: A Study on How Remaining Single Affects Emotional and Academic Life	Nicks, Robin
428	Singleton, Sarah	The Ethics of Fish- Keeping	Newburn, Harry
429	Smith, Mariah	The Effects of Diet and Exercise vs. Fad Diets of Weight Loss	Barrow, Robin
430	Smith, Sidney	Mitigating Major Entrepreneurial Risks	Dean, Lance
431	Soldner, Isabel	Altered Self-Presentation and the Role it Plays on Social Media	Addicott, Randi
432	Speckner, Vincent	Ending Hunger in America	Newburn, Harry
433	Spock, Sophia	Greek Temples as Symbols of Power	Addicott, Randi
434	Spurling, Robert	Carbon Contamination in Electron Microscopy	Dean, Lance
435	Stanford, John	The Relationship between Public Transit and Politics	Dean, Lance
436	Stanton, Megan	Impact of Artificial Intelligence on the Workforce	Dean, Lance
437	Stapleton, Aaron	Worldwide Regulatory Bodies: Consistency is Key	Addicott, Randi

438	Stegall, Caroline	The Representation and Perception of Disabilities in the Media	Dean, Lance
439	Stevenson, Parker	Direct-to-Consumer Genetic Testing: An Investigation of the Ethics of Personal Medicine	McCue, Kristina
440	Suggs, Tucker	The F-35 Joint Strike Fighter: Will this Project Ever Be Able to Take Off?	Gentry, Elizabeth
441	Sullivan, Ali	Hope for The Hopeless: Could Religion Protect Against Suicide?	Nicks, Robin
442	Summers, Rachel	Substance Abuse in the Appalachian Region: Understanding the Causes, Consequences, and Misconceptions	Gentry, Elizabeth
443	Sutinis, Mary	The Christian College Student's Definition of Truth	Nicks, Robin
444	Swan, Richard	How Battery Technology Limits the Electric Car Industry	Dean, Lance
445	Sweat, Christopher	The Influence of Eden: Religion's Effect on Happiness and Development	Addicott, Randi
446	Sweet, Levi	Saving the World on College Campuses	Barrow, Robin
447	Tailor, Kishan	Machine Learning and its Applications on the Autism Spectrum Disorder	Barrow, Robin
448	Throneberry, Caden	The Effects of External Variables on Golf Ball Dynamics and the Ability of Golfers to Calculate Them Subconsciously	Dean, Lance
449	Tillman, Sarah	How the Show Keeps Going On	Dean, Lance
450	Ting, Jonathan	Corruption Comes from Below: Analysis of the Underlying Causes of Low-Level Corruption	Gentry, Elizabeth
451	Tracy, Jarrod	Assessing the Lost Cause: An Examination of Ideas about the Antebellum South	Newburn, Harry
452	Trainer, Matthew	The Biological Reality of a Zombie Outbreak: A Study of the Diseases Possessing Symptoms that Resemble the Common Depiction of a Zombie	Gentry, Elizabeth
453	Tunnell, Josie	The Problem with Chain Stores and Why Local Business Should Be Supported	Newburn, Harry
454	Turner, Caitlin	The Pursuit of Ethical Interior Design for Autism Spectrum Disorder	Newburn, Harry
455	Viar, Nathan	The Effectiveness of Gun Control	Addicott, Randi
456	Viars, Hailey	How Can the Agriculture Community Effectively Combat the Negative Influence of Social Media on Public Perception?	Murphy, Samantha
457	Wade, Bryce	The Effects of Biodiversity on Ecosystem Health and the Global Implications of Biodiversity Loss	Barrow, Robin
458	Wallace, Thomas	Concussion and Football: The Deteriorating Mind	Dean, Lance
459	Waller, Josephine	A Healthy Diet in a World of Ultra-Processed Foods	Barrow, Robin

460	Walsh, Alexis	The Perception of Credibility on Twitter: A Qualitative Study	Brouwers, Marcel
461	Warrington, Kaleb	The Axis Shifts: An Analysis of Evolving Opinion of the Nazi Regime Following World War II	McCue, Kristina
462	Waters, Erica	Assisting Social Success: The Psychosocial Impact of Assistive Technology Use Among Postsecondary Students with Disabilities	Murphy, Samantha
463	Watts, Douglas	Ancestry and Prosperity: The Effects of Ancestral Socioeconomic Status on Future Generation	McCue, Kristina
464	Weas, Madelynn	The Psychology of Women in STEM	Addicott, Randi
465	Weatherly, Caleb	The Future of the Space Industry	Newburn, Harry
466	Weeks, Anna	Cancer Treatment: A Reevaluation of Chemotherapy and Alternatives.	Dean, Lance
467	Weiland, Sean	To Build the Wall or not to Build the Wall: College Catholics Perspectives on Immigration	Nicks, Robin
468	Wenger, Derek	False Cancer Research	Brouwers, Marcel
469	White, Logan	Evaluating the Presence of a Home Advantage in the Olympics: It's Not Definite.	Murphy, Samantha
470	Whitus, Andrew	In or Out: Student Perceptions of Domestic and Imported Goods	Nicks, Robin
471	Widener, Cierra	Induced Pluripotent Stem Cell Research: An Ethical Alternative to Embryotic Stem Cell Research	Gentry, Elizabeth
472	Wildgruber, Max	The Effects of Widespread DNA Sequencing on Data Privacy and Personal Freedoms	McCue, Kristina
473	Wildmann, Ashton	The Categorizing Effect of Genetic Testing on Racial Attitudes in the United States	McCue, Kristina
474	Williams, Andrew	Knowing When to Stop: Understanding the Reasons to End United States Involvement in Honduran Politics	Gentry, Elizabeth
475	Williams, Marc	The Death of Cinema: An Examination of the Rise in Formulaic Films and the Decline of Art-house	Murphy, Samantha
476	Wilson, Greyson	America's (Fast) Time	Newburn, Harry
477	Wolfe, Cortney	Cannabis Comes out of the Closet: Revealing the Opinions of College Students and Professors about the Effects of Marijuana	Nicks, Robin
478	Woltman, Mikayla	The Power of Music	Addicott, Randi
479	Woods, Madison	Pain Management in Neonates: Increasing the use of Non-Pharmaceuticals in Order to Decrease the Use of Pharmaceuticals and its Consequences	Murphy, Samantha
480	Wright, Hannah	Science and the Machiavellian Principle: Does the End Justify the Means?	Addicott, Randi
481	Wyatt, Sydney	Navigating the Approaches to Weight Loss	Barrow, Robin

482	Yates, Grant	Use of Modern Archaeological Mapping Techniques to Improve Final Products	Gentry, Elizabeth
483	Young, Erin	Animal Welfare: Where Do We Draw the Line?	Nicks, Robin
484	Young, Tyler	The Actions of Social Media Toward Preventing the Spread of Fake News	Brouwers, Marcel
485	Zimmermann, Samantha	Can Artificial Intelligence Stop Online Fake News?	Brouwers, Marcel

Research Posters and Creative Works

Presented on Wednesday, April 18, 2018

College of Agricultural Science and Natural Resources				
Poster #	**Student Name**	**Major**	**Title**	**Faculty Mentor**
609	Benjamin Cruz	Biosystems Engineering	Determining and Modeling the Residence Time Distribution of Biomass Particles in a Bench-scale Bubbling Fluidized Bed Reactor	Abdoulmoumine, Nour
610	Miles Ownby	Biosystems Engineering	Devolatilization Kinetics of High Ash Containing Switchgrass by Differential Thermogravimetry (DTG) – Elucidating the Impact on Ash Constituents on the Kinetic Parameters	Abdoulmoumine, Nour
611	Emily Rice	Environmental/ Soil Sciences	Importance of Force and Angles during the Design of the EZ-Lift	Ayers, Paul
612	Zhihong Wang	Food Science	Sorghum Starch Ultrasonication Project	Dia, Vermont
613	Zoe Resmondo	Food Science	Oral Tactile Sensitivity and Processing	Luckett, Curtis
614	Emma Beach	Biosystems Engineering	Characterization and Frictional Response of Biomass Based on Principles From soil Mechanics	Drumm, Eric
615	Sarah Ottinger	Environmental/ Soil Science	Tropical Soil Health and Agricultural Land Use Change	Stier, John
616	Megan Davis	Geography	Soil Moisture and Soil Temperature Variability Among Three Plant Communities in a High Arctic Lake Basin	Schaeffer, Sean
617	Andrew Franks	Forestry	Agroforestry Alternatives in Belize: Evaluating the Potential of Teak	Hodges, Donald
618	Angel Grace Chaffin	Forestry	Potential Pathogens of Industrial Hemp (Cannabis sativa)	Gwinn, Kimberly
619	Daniel Malagon	College Scholars Program	Evaluating the susceptibility of Notophthalmus viridescens to Batrachochytrium salamandrivorans (Bsal)	Gray, Matt
620	Geordan Hall	Ecology/ Evolutionary Biology	Confirmation of Odorous House Ant Clades in Knoxville, Tennessee Using a Novel and Cost-Efficient Assay	Vail, Karen
621	Emily Grimes	Biological Sciences	The Enzymatic and Geochemical Properties of Bone	DeBruyn, Jennifer

622	Emily Stone	Animal Science	Antimicrobial Resistant Bacterial Isolates from Raw Bulk Tank Milk	Derro Dego, Oudessa
623	Ciara Sheets	Wildlife & Fisheries Science	Enumerating and Differentiating Zoospore Types of Batrachochytium Salamandrivorans Using Flow Cytometry	Miller, Deb
624	Ashley Bloom	Food Science And Technology	BG-4, a Novel Peptide from Momordica Charanita, Induces Apoptosis in Ovarian Cancer Cells	Dia, Vermont
625	Heena Patel	Microbiology	Selective, Sensitive, and Rapid Detection of Target Viral Nucleic Acids via Catalytic DNA Biosensor	Shigatoshi, Eda
626	Robert Sears, Elgin Akin	Plant Sciences	The Q-system: A New Technology To Regulate Coordinated Transgene Expression in Plants	Stewart, Neal
627	Lindsey Shover	Plant Sciences	The Use of Potato (Solanum tuberosum) Suspension Cells for Rapid Screening of Chloroplast Transformation Vectors	Neal, Stewart
628	Logan Houston	Biochem/ Cellular/ Molecular Biology	Geographical Location Drives the Population Structure of the Native Asian Cornus Kousa Population	Trigiano, Robert

Natural Sciences, College of Arts & Sciences

Poster #	Student Name	Major	Title	Faculty Mentor
486	Rena Abdurehman	Biology	Dissection of a General Chloroplast Targeting Motif Using In Vivo Imaging of Transit Peptide-YFP Fusion Proteins in Plant Cells	Bruce, Barry
487	Alayna Cameron	BCMB	Exploring the Development of an Orientation Assay for pH Dependent Insertion Peptides	Barrera, Francisco
488	Bill Pham	Biological Science	Computational Study of Ligand-dependent Oligomerization of Ribonucleotide Reductase	Shen, Tongye

489	Samantha Mcintire	Biochem/Cellular /Molecular Biology	Metabolic Activity of Arabidopsis Thaliana NIP2;1 and its Effects on Survivability Under Hypoxic Stress	Roberts, Daniel
490	Alessandro Sarno	Kinesiology	Overexpression of THIOGLUCOSIDE GLUCOHYDROLASE 1 (TGG1) Affects Intercellular Trafficking in Arabidopsis Thaliana	Burch-Smith, Tessa
491	Ojaswini Sharma	Interdisciplinary Studies	The Effect of Osmolytes on Ligand Binding to Dihydropteroate Synthase	Howell, Liz
492	Charles Barnes	Biology	GCN2-Mediated Stress Response in Nitrogen Starved Arabidopsis Seedlings	Vonarnim, Albrecht
493	Riley Byrd	Microbiology	Using Host Serum IgG Titers to Estimate Toxoplasma gondii Virulence	Su, Chunlei
494	Nancy Gulledge	Biochem/Cellular /Molecular Biology	Characterizing Nuclear Localization of the Core Hypoxia Response Protein CALMODULIN LIKE 38 During Hypoxia and Recovery	Roberts, Daniel
495	Bhavya Parikh	Biochem/Cellular /Molecular Biology	Creating micro-RNA Hairpin Loops to Silence Disconnected(disco) Gene in Drosophila Melanogaster	Park, Jae H
496	Thomas Raines, Trevor Freeman	Biochem/Cellular /Molecular Biology	Preparing for Genomic Binding Studies of a Transcription Factor in Liver Cancer Cells	McCord, Rachel
497	Jacqueline Richards	Biochem/Cellular /Molecular Biology	Role of Translationally Controlled Tumor Protein in Intercellular Communication	Burch-Smith, Tessa
498	Savannah Bellione	Geology and Environmental Study	Environmental Tracers Leading to an Answer on Pollution in Second Creek	Szynkiewicz, Anna
499	Kara Delbridge, Jonathan Nguyen, Jyotirmoy Mondal	Chemical Engineering	Optimization of High-throughput PAM (Pulsed Amplitude Modulated) Fluorescence Analysis of Aquatic Cyanobacteria for Detection of Herbicides in the Environment	Bruce, Barry
500	Seth Street, Sara Isbill	Chemical Engineering	Modeling Adsorption and Diffusion of Atomic Oxygen on the Ag(111) Surface Using Kinetic Monte Carlo	Roy, Sharani

501	Wade Seifert	College Scholars Program	Discovery of Competitive and Allosteric Inhibitors for KRAS Using High-thoughput Virtual Screening Strategies.	Smith, Micholas
502	Anna Young	Biomedical Engineering	The Development of a Rapid and Reagent-free Autobioluminescent Yeast Assay for the Detection of Dioxin-like Compounds	Ripp, Steven
503	Brandon Barker	Physics	Prospects for High Energy Followup Studies of Gravitational Wave Transients	Endeve, Eirik
504	Kevin Kleiner	Physics	Analyzing the Efficiency of a Metropolis Monte Carlo Simulation for a 2D Ising Spin Lattice	Johnston, Steve
505	Peyton Nanney	Physics	Synthesis of Ruddlesden-Popper Strontium Iridate Epitaxial Thin Films	Liu, Jian
506	Kyle Noordhoek	Physics	Growth and Observation of Magnetic Properties of Pyrochlore Titanites	Liu, Jian
507	Taylor Stevenson	Physics	Nucleosynthesis in Core-Collapse Supernovae	Hix, William
508	Viktor Zenkov	Computer Science	Improving the Analysis of T Cell Movement	Ganusov, Vitaly
509	Mason Meyers, Thomas Geissberger	Geology and Environmental Study	A GIS Approach to Water Quality Monitoring in Knox County, TN	McKay, Larry
510	Noah Miklusicak	Geology and Environmental Study	Mineralized Fractures in the Siccar Point Group, Gale Crater, Mars	Kah, Linda
511	Audrey Parker, Jennifer Bauer, Maggie Limbeck	Geology and Environmental Study	Fun with Foraminifera in the K-12 Classroom	Sumrall, Colin
512	Christopher Smith	Geology	Growth of Pentremites and Implications for Blastoid Ontogeny	Sumrall, Colin
513	Hannah Teffeteller	Geology	Reconstructing Pressure and Temperature Conditions: Thermobarometry and Pseudosection Modeling for the Cordillera Blanca Batholith, Peru	Jessup, Micah
514	Robert Wood	Geology	Fundamental Research on Vaterite, A Calcium Carbonate Polymorph	Kah, Linda

515	Luke Blentlinger	Geography	Experiments with Magnetic Susceptibility of Lake Sediments	Horn, Sally
516	Tyler Bock	Geography	Using LiDAR to Survey Vegetative Areas in Knox County	Li, Yingkui
517	Randall Brown	Mathematics	Global Spatial Gridding Software for Analysis and Exploration of World Spatial Patterns	Raposo, Paulo
518	Michelle Logan, Jennifer Bauer	Geology	Assissing Old and New Data to Digitally Reconstruct Morphology	Sumrall, Colin
519	Gayatri Nandwani	Classics	Archaeometric Approaches to the Roman Near East	Darby Erin
520	Emma Reed	Geography	Potential Contamination Risk in Tennessee Aquifers from Oil and Gas Drilling	Tran, Liem
521	Hannah Alloway	Ecology/ Evolutionary Biology	Etheostoma Duryi	Keck, Ben
522	Anna Cameron, Casey Fellhoelter, Lucas Smith, Bevin Hardy	Biology	Frequency of Hemlock Woolly Adelgid Information Provided in the Media: Impacts, Ecology, and Citizen Outreach	Leppanen, Christy
523	Vasily Carniello	Microbiology	Interactions and Growth Dynamics of Prochlorococcus, Rhodospirilaceae, and Alteromonas in a a Co-culture Environment	Zinser, Erik
524	Abigail Jarratt	Biology	Synechococcus as an HOOH-Consuming Helper for Prochlorococcus	Zinser, Erik
525	William Kirkpatrick	Ecology/ Evolutionary Biology	Breeding Behavior of the Gray-breasted Flycatcher (Lathrotriccus Griseipectus) in Southwestern Ecuador	Sheldon, Kimberly
526	John Lockyer, Macey Clevenger	Ecology & Evolutionary Biology	The Disclosure of Hemlock Wooly Adelgid Management and Control Through Media Representation	Leppanen, Christy
527	Alexis Case	Ecology/ Evolutionary Biology	Post-fire ectomycorrhizal associations with Pinus sp. in the Great Smoky Mountains National Park: Year one	Hughes, Karen
528	Cody Hudson	Geology and Environmental Study	Using System Dynamics to Explore Impact of Draught on Tennessee Agricultural Practices	Tran, Liem

529	Heiler Meek	Ecology/ Evolutionary Biology	Pollinator Exclusion Experiment as a Means of Testing the Strength of Phylogenetic Relationships in Solidago Species	Schweitzer, Jennifer
530	Han Noh	Ecology/ Evolutionary Biology	Climate Change Would Make Trees From Warm vs. Cool Populations More Conservative of Nutrients	Schweitzer, Jennifer
531	Magen Poindexter	Biological Sciences	Molecular Barcoding of Eupatorieae of Tennessee	Schilling, Edward
532	Samantha Cahill	Chemical Engineering	Spatial Analysis of Mountaintop Mining's Impact on Water Quality and Macroinvertebrates	Giam, Xingli
533	Rachel Brandes	Interdisciplinary Programs	Investigating tPA and Ethanol in the Mammalian Circadian Clock	Prosser, Rebecca
534	Kimberly Bress	College Scholars Program	Effects of Social Dominance on Defeat-Induced Neural Activity In A Ventral Hippocampus-to-Basolateral Amygdala Circuit	Cooper, Matthew
535	Randy Carpenter	Interdisciplinary Programs	Examining Diurnal Differences in the Extracellular Matrix Components in Mammalian Circadian Clock	Prosser, Rebecca
536	Delaney Fisher, Ronald Franz	Chemical Engineering	Identification of Brain Regions Involved in Neuronal Plasticity in a Female Mouse Model of Rett Syndrome	Krishnan, Keerthi
537	Robert Frederick	Neuroscience	Investigating Urokinase-type Plasminoge Activator Receptor's (uPAR) Role in the Mammalian Circadian Clock	Prosser, Rebecca
538	Richard Vuong, Rachel Shah	Interdisciplinary Programs	Olfactory Perception Behavior in Drosophila Melanogaster (Fruit Fly)	Park, Jae
539	Jessica Anderson	Psychology	The Role of executive Functions in Depression and Attention-Deficit/Hyperactivity Disorder (ADHD) Symptomatology.	Bolden, Jen
540	Thomas Clarity	Neuroscience	Acute Social Defeat Stress Induces Microglial Activation in Key Limbic Regions	Cooper, Matthew
541	Emily Graham	Neuroscience	Effects of Alcohol on Defeat-induced Social Avoidance in Mice	Cooper, Matthew

542	Annie Loewen	Psychology	Sex Differences in the Effects of Social Status on Defeat-induced Social Avoidance in Syrian Hamsters	Cooper, Matthew
543	Olivia Maples	Psychology	The Effects of Relationships on ANS function and Wellness	Baldwin, Debora
544	Kriston Ramsey	Child and Family Studies	A Preliminary Investigation: Social Problems and Executive Functioning in an ADHD Pediatric Sample	Bolden, Jenn
545	Matthew Richesin, Michael Oliver, Olivia Maples, Fadi Hakeem, Alona Hunter	Psychology	Facial Expressions: A Psychophysiological Exploration into Performance	Baldwin, Debora

Tickle College of Engineering

Poster #	Student Name	Major	Title	Faculty Mentor
546	Matthew Dischner, Christopher Keller	Biosystems Engineering	Mobile Device for Height Measurement of Research Cotton	Wilkerson, John
547	Samuel Long, IV Andrew Watts	Biosystems Engineering	Second Generation Mobile Biochar Unit Design	Abdoulmoumine, Nour
548	Emine Fidan, Miles Ownby, Natalie Peay	Biosystems Engineering	The Design of a System to Georeference Underwater Video Utilizing Citizen Scientist Scuba Divers	Ayers, Paul
549	Christina Cowan-Banker, Curtis Maffei, Michael Pelle	Biosystems Engineering	Volunteer Landfill Leachate Treatment Design	Buchanan, John
550	Lexus Morris, Samantha Brachter	Biomedical Engineering	Reconstructed Implantable Limb Prosthetic	Couch, Dustin
551	Jose Luna Garcia, David Anthony, Christian Kidd, Jeremy Melton, Chelsey Brummer	Civil Engineering	Alex Haley Farm Mitigation of River Bank Erosion	Retherford, Jenny
552	Jackson Oakes, Nicole Pearlman, Dylan Jenkins, Justin Condon	Civil Engineering	Chandler Road-Airport Auto Auction Drive Roadway and Drainage Networks Improvements	Retherford, Jenny
553	Michael Feeney, Todd Huber, Erik Perfetto, David Dillard	Civil Engineering	Eureka Trail Expansion and Improvements Phase II	Retherford, Jenny

554	Zachariah Arwood	Civil Engineering	Innovative Application of Limestone Fines in Landfill Berms	Retherford, Jenny
555	Matthew Davis, Sydney Reeder, Jeffrey Floyd, Jacob Gasnow	Civil Engineering	Rails-to-Trails Greenway Expansion in Maryville, Tennessee	Retherford, Jenny
556	Samuel Rodgers, Ethan Miller, Case Offutt, John Wilson	Civil Engineering	Roadway Improvements for Project Python Meteor Access	Retherford, Jenny
557	Maxwell Carter, Nathanl Kabir, Elijah Roberts	Civil Engineering	The Harbor of Loudon	Retherford, Jenny
558	Natalie Czarnecki, Nathaniel Jansen	Chemical Engineering	Simulation of Phosphoric Acid Extraction from Fluoroapatite Ore	Counce, Robert
559	Williams King, Morgan Jenkins, Trenton Wiles, Liliana Porras, Matthew Livesay	Civil Engineering	ACS Transmission Tower Design	Retherford, Jenny
560	Evan Lockhart, Colin Williams, Clark Marshall, Colton Scott, Frank Becker	Civil Engineering	Neyland Drive Traffic Study	Retherford, Jenny
561	Sophia Morgan, Jacob Aljundi, Alix Ambrose, Adam Pegouske	Mechanical Engineering	Development of Testing Standards for Composite-to-Metal Scarf Repair	TerMaath, Stephanie
562	Robert Nickel	Aerospace Engineering	The Effects of Vortex Oxidizer Injection on Hybrid Rocket Fuel Regression	Lyne, Evans
563	Madeline Wimmer Daniel Rutstrom, Cody Pratt, Lifu Zhang	Materials Science & Engineer	Evaluation of Polypropylene Blends for 3D Printing Applications	Benson, Roberto
564	Brandon Rowell, Christopher Walker, John Carothers, Michael Roulier	Materials Science & Engineer	Exploring Au-Ni Alloys for Magnetic-Plasmonic Applications	Rack, Philip
565	Quentin Eustace, Christina Cox, Grant Hanthorn, Caitlin Duggan	Materials Science & Engineer	Formulations for Three-way Catalyst Supports in the CeZrLaO System	Keffer, David

566	Austin Ngo, Christian Kocak, Gavin Dorrity, Xiaoyang Hu, Cameron Hilliard	Materials Science & Engineer	Investigation into Failure Mechanisms of John Deere Manual Transmission Shifter Forks	Sickafus, Kurt
567	Jonathan Hartman, Gavin Webb, Christopher Duff, Tyler Naughton, Sean Alcorn	Nuclear Engineering	Advancements on Spent Fuel Pools through Passive Cooling	Grossbeck, Martin
568	Bahar Meshkat	Biochem/Cellular /Molecular Biology	Robust and Cost Efficient Method for Fabrication of Tungsten Tips for Scanning Tunneling Microscopy	Khomami, Bamin
569	Harrison Ooi	Civil Engineering	A Synopsis of Studies on Steel-Timber Composite Structures	Denavit, Mark
570	Morgan Jenkins	Civil Engineering	Comparison of Traditional and Advanced Methods of Evaluating Roof Ponding	Denavit, Mark
571	James Throckmorton	Civil Engineering	Fine Coal Refuse Slurry: Influence of Background Chemistry on Viscosity	Palomino, Angel
572	Aston Hutchison	Civil Engineering	Development and Validation of a Nonlinear Inelastic Model for Slender Reinforced Concrete Columns	Denavit, Mark
573	Jeremy Melton	Civil Engineering	Numerical Modeling of Particle Fracture	Alshibli, Khalid
574	Kadee Klimowicz, Harrison Ooi	Civil Engineering	Part-Based Detection of Excavators for Construction Safety Monitoring	Li, Shuai
575	Leah Stephens	Civil Engineering	The Effects of Pressure on Chemical Interactions with Shale Rock During Hydraulic Fracturing	Palomino, Angel
576	Jared Clements, Ralph Laurel, Matthew Kubis, Katherine Krouse, Neel Patel, James Ragland, Elyssa Ridley, Abbigail Link, Thomas Welker, Jay Patel, Annabel Large	Chemical Engineering	Expanding Our Aromatic Waste Degradation Platform	Trinh, Cong
577	Jose Velasco	Chemical Engineering	Innovation of Analytical Methods in Art Conservation	Kit, Kevin

578	David Barnes	Chemical Engineering	Utilization of 1-D Spatial Information from Laser-Induced Breakdown Plasma for Determination of Fuel/Air Ratios	Zhang, Zhili
579	James Cate, Jinxiao Yu	Computer Science	A Virtual Testing Environment for Brain-Controlled Vehicle	Zhao, Xiaopeng
580	Adriano Santos Filho, Igor Gussev	Computer Science	Stoichiometry Effects on Matrix Stability in Simplified Five-Component Borosilicate Nuclear Waste Glass Studied by Total Neutron Scattering and Raman spectroscopy	Lang, Maik
581	Katelyn Bolinsky	Electrical Engineering	Device Characterization of Gallium Nitride Solar Inverters	Costinett, Daniel
582	Dean Blanks	Mechanical Engineering	Accelerated Thermal Transport Design of Aluminum Alloy via Machine Learning	Shin, Seungha
583	Megan Pitz	Biomedical Engineering	Analyzing Memcapacitive Capabilities of Lipid and Polymer Bilayers for Use in Smart Materials	Sarles, Stephen
584	WilliamButtrey, Gabrielle Witt	Mechanical Engineering	Investigation into the Variability of Fused Deposition Modeling 3D Printers from the Same Manufacturer	TerMaath, Stephanie
585	Samantha Golter, Benjamin Ingling	Aerospace Engineering	Optimization of Skin Panels to Prevent Buckling	TerMaath, Stephanie
586	Camille Bergin	Aerospace Engineering	Synthesis and Characterizations of Graphitic Coated Aluminum Nanoparticles Produced as Energetic Materials via Laser Ablation in Organic Solutions	Mukherjee, Dibyendu
587	Eriko Gordon	Microbiology	Identifying Methanotrophic Candidates for Trichloroethylene Remediation in Fracking Flowback	Hazen, Terry
588	Caitlin Harpell	Materials Science & Engineering	A Window through Time: Simulation of Meteorite Microstructural Evolution	Keffer, David
589	Jared Floyd	Materials Science & Engineering	Ceramic to Metal: A Functionally Graded Material	Rawn, Claudia

590	Elijah Darby	Materials Science & Engineering	Effect of Laser Power on Defect Characteristics in Selective Laser Melt Additively Manufactured Stainless Steel	Choo, Hahn
591	Allison Campbell	Materials Science & Engineering	Effects of Design Parameters on Fluid Flow in Ventricular Catheters	TerMaath, Stephanie
592	Jessica Ossyra Aaron Crigger	Chemical Engineering	Fabrication of Dense UO3 Pellets for Neutron Detection Applications	Meek, Thomas
593	Melanie Buziak	Materials Science & Engineering	Function and Implementation of Resonant Ultrasound Spectroscopy in Both an Analog and Digital System Configuration	Keppens, Veerle
594	Austin Ngo	Materials Science & Engineering	Influence of Volumetric Energy Density on Defect Formation in 3-D Printed Hastelloy X	Choo, Hahn
595	Samantha Lang, Denzel Bridges	Materials Science & Engineering	Laser Brazing of Nickel Superalloys with a Ni-Mn-Fe-Co-Cu High Entropy Alloy Nanopaste	Hu, Anming
596	Daniel Rutstrom	Materials Science & Engineering	Optimizing Europium Concentration in Cs4SrI6 and Cs4CaI6 Scintillators	Zhuravleva, Mariya
597	Ian Greeley	Materials Science & Engineering	Single Crystal Growth of Lead Halide Semiconductor CsPbBr3 for High-Energy Radiation Detection	Melcher, Chuck
598	Katherine Gordon, Camera Foster	Materials Science & Engineering	Synthesis and Phase Identification of Lithium Gallium Oxide Compositions for Scintillator Applications	Melcher, Chuck
599	Jonathan Mitchell	Nuclear Engineering	Automating an ORIGAMI-MCNP Workflow for Analyzing Spent Nuclear Fuel via X-Ray Fluorescence	Skutnik, Steven
600	Gavin Ridley	Nuclear Engineering	Fast Calculation of Variable Refuel Rates for Liquid-Fuel Nuclear Reactors	Chvala, Ondrej
601	Amanda Bachmann	Nuclear Engineering	Investigating Isotopic Concentration Variability in Used Nuclear Fuel	Coble, Jamie

602	Emily Hutchins	Nuclear Engineering	Molecular Dynamics Simulations of Hydrogen Diffusion and Retention Behavior Near Sub-Surface Defects in Tungsten: Towards Predicting Tritium Retention in the ITER Divertor	Wirth, Brian
603	William Naylor	Nuclear Engineering	Molten Salt Reactors: Instrumentation and Control	Upadhyaya, Belle
604	Jacob Cooper	Nuclear Engineering	Structural stability of REE-PO4 (REE=Sm,Tb) under high pressure and ion irradiation	Lang, Maik
605	Jason Behrens	Nuclear Engineering	Study of Swift Heavy Ion Irradiation Effects on Cation Inversion in Magnesium and Nickel Spinels Using Neutron Total Scattering and Neutron Powder Diffraction.	Lang, Maik
606	Irfan Ibrahim	Nuclear Engineering	Synthesis and Structural Analysis of Zirconate Pyrochlore Oxides	Lang, Maik
607	Matthew Herald	Nuclear Engineering	X-Means Clustering Implementing the Gap Statistic for Multiple Positron Emission Particle Tracking	Ruggles, Arthur
608	Kacey Tomsovic	Materials Science & Engineer	Synchrotron X-ray Computed Microtomography Study on the Relationship Between Processing Parameters and Defect Characteristics in a Selective Laser Melt 3-D Printed Alloy	Choo, Hahn

2018 U.T. Celebration of Excellence Competition
Sunday, April 8, 2018
Natalie Haslam Music Center
Sandra G. Powell Recital Hall

Winners:

1st Place:

Natalie Gregg, Flute; Alex Hall, Oboe; Ryan Ramsey, Bassoon;
Peter Kim, Clarinet; Seth Hall, Horn
Quintet, Mvt. I (August Klughardt)
Faculty Mentor: Professor Aaron Apaza

2nd Place:

Lee Brandt, Tenor
Lonely House from **Street Scene** (Kurt Weill)
Faculty Mentor: Professor Andrew Skoog

3rd Place

Anjali Shinde, Flute
Andante Pastoral et Scherzettino (Paul Taffanel)
Faculty Mentor: Dr. Shelley Binder

JUDGES:

Carol Zinavage Shane, Emeritus Principal Keyboardist,
Knoxville Symphony Orchestra

Jeffrey Whaley, Principal Horn, Knoxville Symphony Orchestra

Dr. Perry Ward, Assistant Professor of Voice, U.T. Chattanooga

Carol Tucker, Viola, Knoxville Symphony Orchestra

COMPETITION PARTICIPANTS

*First Line: Name of student and instrument
*Second Line: Title of composition with composer's name in parentheses
*Third Line: Faculty Mentor

Zhen Zhang, Piano
F Major Variation (Zhen Zhang)
Faculty Mentor: Dr. David Brunell

Songkun Yang, Piano
La Campanella (Franz Liszt)
Faculty Mentor: Professor Chih-Long Hu

Ashlee King, Soprano
Ces airs joyeux (Claude Debussy)
Faculty Mentor: Professor Lorraine DiSimone

Breaking Reeds Bassoon Quartet
Brianna Rife, Laiton Pigg, Sean Bales, Antonio Pucci
Fusion of Four (Brendan McConville)
Faculty Mentor: Professor Aaron Apaza

Natalie Gregg, Flute
Alex Hall, Oboe
Ryan Ramsey, Bassoon
Peter Kim, Clarinet
Seth Hall, Horn
Quintet, Mvt. I (August Klughardt)
Faculty Mentor: Professor Aaron Apaza

Anjali Shinde, Flute
Andante Pastoral et Scherzettino (Paul Taffanel)
Faculty Mentor: Dr. Shelley Binder

Brianna Rife, Bassoon
Bassoon Concerto in B-flat major, K. 191, Mvt. I (W. A. Mozart)
Faculty Mentor: Professor Aaron Apaza

Zachary Jerome, Viola
Concertino romantique, Op. 138 (Paul Rougnon)
Faculty Mentor: Professor Hillary Herndon

John Flores, Saxophone
Escapades Concerto, Mvt. III (John Williams)
Faculty Mentor: Dr. Allison Adams

Lee Brandt, Tenor
*Lonely House f*rom Street Scene (Kurt Weill)
Faculty Mentor: Professor Andrew Skoog

Ellen Sudarshan, Soprano
Du gai soleil, plein de flamme from Werther (Jules Massenet)
Faculty Mentor: Professor Andrew Wentzel

Angkun Uabamrungjit, Violin
Spanish Dances, Op. 26, Mvt. II Habañera (Pabló de Saraste)
Faculty Mentor: Dr. Geoffrey Herd

Poster Index

Students with poster numbers 1-206 will present on Monday, April 16. Students with poster numbers 207-485 will present on Tuesday, April 17, 2018. Students with poster numbers 486-628 will present on Wednesday, April 18, 2018.

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