Urca 2016
Undergraduate Research & Creative Activity Conference

Oral & Poster Presentations
Schedule of Events
March 30, 2016
University of Alabama
Ferguson Center
PARTICIPATING COLLEGES & SCHOOLS

ARTS & SCIENCES
BLACKBURN INSTITUTE
CAPSTONE INTERNATIONAL
CULVERHOUSE COLLEGE OF COMMERCE
COMMUNICATION & INFORMATION SCIENCES
EDUCATION
ENGINEERING
EMERGING SCHOLARS
GRADUATE SCHOOL
HONORS COLLEGE
HUMAN ENVIRONMENTAL SCIENCES
NURSING
SOCIAL WORK
STUDENT AFFAIRS
STUDENT GOVERNMENT ASSOCIATION
UNIVERSITY LIBRARIES

URCA COORDINATORS

Chair- Dr. Carl A. Pinkert,
   Vice President for Research & Economic Development
Director of Undergraduate Research- Dr. Kim Bissell
Arts & Sciences- Dr. Roger Sidje
Blackburn Institute- Dr. Philip Westbrook
Capstone International- Dr. Teresa Wise
Culverhouse College of Commerce- Dr. Diane Johnson
Communication & Information Sciences- Dr. M.K. Shreves
Education- Dr. David Hardy
Engineering- Dr. John Wiest
Emerging Scholars- Dr. M.K. Shreves
Graduate School- Dr. Dave Francko
Honors College- Dr. Shane Sharpe
New College- Dr. Natalie Adams
Human Environmental Sciences- Dr. Lori Turner
Nursing- Dr. Cassandra Ford
Social Work- Dr. Laura Hopson
Student Government Association- Cassidy Reilly
March 30, 2016

Dear Participants:

Welcome to the 9th Annual University of Alabama Undergraduate Research and Creative Activity Conference. We are excited to have close to 500 students representing all academic disciplines participating in this year’s event. We have seen a significant growth in undergraduate student research and creative activities in areas that have been under-represented in the past. This expansion of participation across disciplines demonstrates that research and creative activities have become hallmarks of the undergraduate experience at The University of Alabama.

Our faculty constantly seeks new opportunities to engage our undergraduate students in quality research, discovery and creative endeavors that will define their academic experience at the Capstone. We want to give special thanks to those faculty members who have mentored our student presenters today; our talented students begin what we hope will be a long journey of scholarly achievement and discovery. We also offer hearty congratulations to our student participants for their contributions to the impressive body of work presented today.

Through the collaborative efforts of the Office of the Vice President for Research and Economic Development, the Graduate School, the Undergraduate Research and Creative Activities Committee and the colleges and schools, this has become a premier event at The University of Alabama. Sincere thanks to these groups for making today’s conference possible through their tireless efforts in planning and development.

We celebrate this established tradition of annually recognizing the research and creative accomplishments of our best and brightest undergraduate students.

Sincerely,

Stuart R. Bell
President

Carl A. Pinkert
Vice President for Research and Economic Development
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**Schedule of Events**

**Schedule of Oral & Poster Presentations**

- **College of Arts & Sciences**
- **Division of Fine Arts & Humanities**
- **Division of Science & Mathematics**
- **Division of Social Sciences**

**Culverhouse College of Commerce**

**College of Communication & Information Sciences**

**College of Education**

**College of Engineering**

**College of Human Environmental Sciences**

**Capstone College of Nursing**

**School of Social Work**

**Emerging Scholars**

- **Division of Science, Mathematics & Engineering**
- **Division of Fine Arts & Humanities**
- **Division of Social & Behavioral Science, Business & Education**

**Ten + Ten**

**Map of Ferguson Center**

**Acknowledgments**

**Sponsors**
**Tuesday, March 29**

1:00PM - 4:00PM Ferguson Ballroom
Oral Presentation Check-in & Upload PowerPoint- All Colleges
Morning Poster check-in & set up

**Wednesday, March 30**

7:30AM - 8:00AM: Morning Poster check-in
8:00AM - 11:00AM: Morning Poster presentations
8:15AM - 8:45AM: Morning Oral check-in & PowerPoint upload
9:00AM - 1:00PM: Morning Oral presentations
11:00AM - 11:45AM: Poster breakdown
11:45AM - 1:00PM: Afternoon Poster check-in & set-up
1:00PM - 3:00PM: Judges’ Preliminary Review of Posters (A&S)
Poster Presentations - Emerging Scholars
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2:00PM - 5:00PM: Afternoon Oral presentations
3:00PM - 6:00PM: Afternoon presentations

**MORNING**

**POSTERS**
Emerging Scholars-Science, Math, & Engineering
Education
Engineering
HES
Nursing
College of Commerce
C&IS
Social Work

**ORALS**
Arts & Sciences
Education
Nursing

**AFTERNOON**

**POSTERS**
Arts & Sciences
Emerging Scholars-Fine Arts & Humanities
Emerging Scholars- Social Sciences

**ORALS**
Emerging Scholars- All
College of Commerce
C&IS
Social Work
College of Arts and Sciences
Division of Fine Arts & Humanities
Schedule of Oral Presentations

Oral presentations in the Division of Fine Arts & Humanities have been divided into 1 group and will be held in room 3104 at the Ferguson Student Center.

Judges will select the top two oral presentations; other presentations may be selected for Honorable Mention.

Group 1 - Room 3104

9:00 am
Margaret Wilbourne // New College
Faculty Mentors:
Catherine Roach // New College
Barbara Brickman // New College
Popular Culture and Environmentalism: An Exploration of Perspective

9:20 am
Trevor Chidester // History
Faculty Mentor:
Erik Peterson // History
Changing the Direction of Evolution: From Buffon’s Species Degeneration to Lamarck’s Organic Progress

9:40 am
Carissa Schreiber // English
Faculty Mentor:
Lauren Cardon // English
Collective Trauma and Community Healing in Post-war American Literature

10:00 am
Jessica Hauger // History
Faculty Mentors:
Lisa Lindquist-Dorr // History
Erik Peterson // History
“The Common Lot”: The Philosophical Problem of Labor Pain in the Late Nineteenth Century

10:40 am
Sarah Griswold // Religious Studies
Faculty Mentor:
Michael Altman // Religious Studies
There Is a Well at Cawnpore: The Politics of Commemoration in Colonial India

11:00 am
McKay House & Erika Davis // A&S - Theatre & Dance
Faculty Mentor:
Rebecca Salzer // Theatre and Dance
Optic Disc: A dance for film

11:20 am
Brianna Milner // Theatre and Dance
Faculty Mentor:
Sarah Barry // Theatre and Dance
Delta S

11:40 am
Bobby McClure // Theatre and Dance
Faculty Mentor:
Sarah Barry // Theatre and Dance
Text-Based Movement Generation: How Structure Creates Freedom
In the Division of Fine Arts & Humanities, the initial judging of the poster presentations will take place between 1:00 and 3:00pm without the students being present. Beginning at 3:00pm, the judges will meet with each student and discuss his or her presentation.

1. **Chandler Sawyers // Music**  
   Faculty Mentor: Andrea Cevasco-Trotter // Music  
   Effects of High Versus Low Pitches of Songs on Premature Infants’ Physiological Parameters Across Time

2. **Spencer Cornelius // Communication Studies**  
   Faculty Mentor: Ashley McWaters // English  
   Chimera City

3. **Allison Miller // Music**  
   Faculty Mentor: Ellary Draper // Music  
   Effects of Musical Accents, Rhythm, and Melody on Serial Recall of Monosyllabic Digits

4. **Lauren Deutsch // Information Systems, Statistics and Management Science**  
   Faculty Mentor: James Mixson // History  
   Travels in Late Medieval Religion Case Studies from Visitation and Crusade

5. **Laura Testino // Theatre and Dance**  
   Faculty Mentor: Lawrence Jackson // Theatre and Dance  
   Tap Dance: Examining the rise and decline of the lost art and its relationship to black American culture

6. **Leah Nicoll // Theatre and Dance**  
   Faculty Mentor: Stacy Alley // Theatre and Dance  
   Success in “The Digital Age” of Musical Theatre
COLLEGE OF ARTS AND SCIENCES
DIVISION OF SCIENCE AND MATHEMATICS
SCHEDULE OF ORAL PRESENTATIONS

Oral presentations in the Division of Science and Mathematics have been divided into 2 groups and will be held in rooms 3107 & 3700 at the Ferguson Student Center.

In each group, judges will select the top two oral presentations; other presentations may be selected for Honorable Mention. The students with the top two oral presentations in each group will then present to the judges from one the other groups. The second presentation will take place in the room where the student initially presented.

GROUP 1- ROOM 3107

9:00 am
HAYDEN ARNOLD // Chemical & Biological Engineering
Faculty Mentors:
David Dixon // Chemistry
Monica Vasiliu // Chemistry
Hydrolysis Reactions of Actinide Oxide Nitrates

9:20 am
SHUWEN YUE // Chemical & Biological Engineering
Faculty Mentor:
David Dixon // Chemistry
Computational Studies of the Conversion of Biomass to Biofuels: Acid-Base Chemistry

9:40 am
JULIA MURPHY // Chemical & Biological Engineering
Faculty Mentor:
David Dixon // Chemistry
The Reactions of CO2 with Metal Oxide Nanoclusters to Form Metal Carbonates

10:00 am
WILLIAM JACKSON // Chemical & Biological Engineering
Faculty Mentor:
David Dixon // Chemistry
Gas-Phase Acidities of Acid-Substituted Peptides

10:20 am
SEAN MILLER // Chemical & Biological Engineering
Faculty Mentor:
David Dixon // Chemistry
Reliable Predictions of the Bond Dissociation Energy of Mono-, Bi-, and Tri-alanine and Glycine Peptides and the Corresponding Amides

10:40 am
ABIGAIL PAULSON // Chemical & Biological Engineering
Faculty Mentor:
Dave Nikles // Chemistry
Synthesis and optimization of single crystal iron oxide nanoparticles

11:00 am
SAMUEL SCOPEL // Biological Sciences
Faculty Mentors:
Guy Caldwell // Biological Sciences
Edward Griffin // Biological Science
The Role of Neurotransmission in Amyloid-beta Neurotoxicity

11:20 am
SAMUEL STANLEY // Biological Sciences
Faculty Mentors:
Kim Caldwell // Biological Sciences
Bryan Martinez // Biological Sciences
Investigation of dopamine neuron degeneration as a consequence of microbiome-derived bacteria

GROUP 2- ROOM 3700

9:00 am
DARYLL SPANGLER // Biological Sciences
Laura Reed // Biological Sciences
Sex Ratios and Response to Dietary Restriction in Drosophila Melanogastre

9:20 am
NELSON BROWN // Chemical & Biological Engineering
Faculty Mentor:
Laura Reed // Biological Sciences
Testing the Effects of High Intensity Artificial Sweeteners on Drosophila melanogaster

9:40 am
KATHRYN HILES // Civil, Construction & Environmental Engineering
SCOTT ANDREWS // Geography
Faculty Mentor:
Michael Steinberg // New College
Trophic Theory Case Study: South Water Caye, Belize
10:00 am  
**GENEVIEVE MILLER // Biological Sciences**  
Faculty Mentors:  
Ryan Earley // Biological Sciences  
Kristy Marson // Biological Sciences  
Joe Styga // Biological Sciences  
From water to land: jettisoning out of water in response to predator-associated cues in wild mangrove rivulus

10:20 am  
**BRAXTON GREER // Biological Sciences**  
Faculty Mentor:  
Stevan Marcus // Biological Sciences  
Studying the effects of the anti-cancer triterpenoid Avicin G in human cancer cell lines

10:40 am  
**LACEY KENNEDY // Biological Sciences**  
Faculty Mentor:  
Stevan Marcus // Biological Sciences  
The Role of Stress Responders Pka1 and Pmk1 in Avicin G, a Potent Antitumor Compound

11:00 am  
**ZAÏN ARYANPOUR // Biological Sciences**  
Faculty Mentors:  
Stevan Marcus // Biological Sciences  
Elan Strange // Biological Sciences  
From beer to cancer: How yeast help in the development of anticancer therapies

11:20 am  
**SHEA BARGER & CLINT HYDRICK // Biological Sciences**  
Faculty Mentor:  
Stephen Secor // Biological Sciences  
Not-so-picky eaters; The Cost of Choosing for the Kingsnake

10  
**CODY COLCLOUGH // Chemistry**  
Faculty Mentors:  
Silas Blackstock // Chemistry  
Ariel Kelley // Chemistry  
Calculation of the Magnetic Anisotropy of the Nitroso (-N=O) Group in Nitrosobenzenes

11  
**CATHERINE OWENS // Chemistry**  
Faculty Mentors:  
Silas Blackstock // Chemistry  
Ariel Kelley // Chemistry  
Magnetic Anisotropy of C-nitroso Compounds

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**NICHOLAS LAFFEY // Mathematics**  
Faculty Mentors:  
Brendan Ames // Mathematics  
Sparse Regression for Predicting Playoff Success in Hockey

13  
**ALISON FARRAR // Mathematics**  
Faculty Mentor:  
Claudia Mewes // Physics and Astronomy  
Theoretical Investigation of Damping in Exchange Bias Systems
## Division of Science and Mathematics

### Schedule of Poster Presentations // 1:00-6:00 PM

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| Mitch Clayton // Chemical & Biological Engineering  
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Dave Nikles // Chemistry  
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| 24    |
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Dawn Williams // Physics & Astronomy  
Double Pulse Plus: An Extended Search for Tau Neutrino Double Pulse Events |
| 25    |
| Clare Ols // Biological Sciences  
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Eben Broadbent // Geography  
Angelica Alymeda Zambrano // Geography  
Species abundance and composition in a biological reserve with active ecotourism on the Osa Peninsula of Costa Rica |
| 26    |
| John Lundeen // Chemistry  
Faculty Mentor:  
Elizabeth Papish // Chemistry  
Synthesis of Ruthenium-Based Anticancer Prodrugs |
| 27    |
| Ansley Griffith // Geological Sciences  
Faculty Mentors:  
Fred Andrus // Geological Sciences  
Christine Bassett // Geological Sciences  
Preliminary Growth Analysis of Alaskan and Canadian Bivalves for Paleo environmental Reconstruction |

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| 14    |
| Shaun Hogan // Physics & Astronomy  
Faculty Mentor:  
Conor Henderson // Physics & Astronomy  
Study of Triphoton Production at the Large Hadron Collider |
| 15    |
| Caroline Bloodworth // Chemical & Biological Engineering  
Faculty Mentor:  
David Dixon // Chemistry  
Computational Studies of Trans-Actinide Hydrolysis |
| 16    |
| Emma Clements // Civil, Construction & Environmental Engineering  
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David Dixon // Chemistry  
The Properties of Actinides in High Oxidation States: The Fluorides |
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| Laura Holland // Human Nutrition & Hospitality Management  
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David Dixon // Chemistry  
Gas-Phase Acidities of Phosphorylated Peptides |
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| William Layfield // Chemistry  
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David Dixon // Chemistry  
Computational Studies of the Hydrolysis of Early Actinide(IV) Cations |
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| Rachael Kress // Chemistry  
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Dave Nikles // Chemistry  
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| 20    |
| Kaylee O’Connor & Colin Arensberg // Chemical & Biological Engineering  
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Dave Nikles // Chemistry  
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**Samantha Glukhova // Biological Sciences**  
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Guy Caldwell // Biological Sciences  
Siyuan Zhang // Biological Sciences  
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29  
**Eric Johns // Biological Sciences**  
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Guy Caldwell // Biological Sciences  
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30  
**Jermie Rushing // Chemistry**  
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Gregory Szulczewski // Chemistry  
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Optimizing the electrical conductivity of Ag2Te/PEDOT:PSS thin films for energy harvesting applications

31  
**William Robison // Biological Sciences**  
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Gregory Szulczewski // Chemistry  
Tabitha Sutch // Chemistry  
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**Jordan Fuhrman // Physics & Astronomy**  
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Ion Stancu // Physics and Astronomy  
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**Michael Starz // Physics & Astronomy**  
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34  
**Sarah Black // Biological Sciences**  
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Jennifer Howeth // Biological Sciences  
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35  
**Laura Canaday // Biological Sciences**  
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John Yoder // Biological Sciences  
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**Jeremy McDonell // Biological Sciences**  
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**Maya Allen // Biological Sciences**  
Faculty Mentor:  
Juan Lopez-Bautista // Biological Sciences  
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**Anthony Fiacco // Biological Sciences**  
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Janis O’Donnell // Biological Sciences  
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**Cassidy Elliot // Biological Sciences**  
Faculty Mentor:  
Julie Olson // Biological Sciences  
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**Dominic Hepner // Biological Sciences**  
Faculty Mentors:  
Julie Olson // Biological Sciences  
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**Andrew Rice & Valerie Turberville // Biological Sciences**  
Faculty Mentor:  
Julie Olson // Biological Sciences  
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John Vincent // Chemistry
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Kim Caldwell // Biological Sciences
Xiaohui Yan // Biological Sciences
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BLAKE PARKER & BRIAN SMITHERS // Biological Sciences
Faculty Mentors:
Kim Caldwell // Biological Sciences
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RYLEE PERENTIS // Biological Sciences
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David Dixon // Biological Sciences
Hanna Kim // Biological Sciences
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EMILY SCHMIDT // Biological Sciences
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Bill Keel // Physics & Astronomy
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MICHAEL MOORE // Biological Sciences
JARON NIX // Chemical and Biological Engineering
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Laura Reed // Biological Sciences
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KARA MACINTYRE & WHITNEY BEAVERS // Biological Sciences
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LAURA MAFLA & ANDREW DAVIS // Biological Sciences
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JOHN HENDERSON // Biological Sciences
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Laura Reed // Biological Sciences
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BEAU SCHAFFER // Biological Sciences
JARON NIX // Chemical and Biological Engineering
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Laura Reed // Biological Sciences
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LEVI MILLER // Biological Sciences
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55
Kelsey Lowman & Brelahn Wyatt // Biological Sciences
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Laura Reed // Biological Sciences
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Calvin Muth // Chemistry
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Patrick Frantom // Chemistry
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Michael Walters // Physics & Astronomy
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Patrick LeClair // Physics & Astronomy
Ali Amiri // Physics & Astronomy
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Preethi Nair // Physics & Astronomy
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Ryan Earley // Biological Sciences
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Kevin Duque // Biological Sciences
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Ryan Earley // Biological Sciences
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Elizabeth Johnson // Biological Sciences
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Ryan Earley // Biological Sciences
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Shanlin Pan // Chemistry
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Faculty Mentor:
Stephen Secor // Biological Sciences
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Stephen Secor // Biological Sciences
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Charles Watts-Kerr // Biological Sciences
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Stephen Secor // Biological Sciences
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Linnea Moran, Jackie Guezille, & Amanda Topolski // Biological Sciences
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Stephen Secor // Biological Sciences
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Andrew Schwitzgebel // Biological Sciences
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**FRANCES KYLE // Criminal Justice**  
Faculty Mentor:  
Dr. Bronwen Lichtenstein // Criminal Justice  
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10:00 am  
**SIERRA LAWSON // Anthropology**  
Faculty Mentors:  
Ian W. Brown // Anthropology  
Theodore Trost // Religious Studies  
Merinda Simmons // Religious Studies  
Floral Engravings on Gravestones:  
Interpreting Cultural Values in Tuscaloosa County  
Burial Grounds

In the Division of Science & Mathematics, the initial judging of the poster presentations will take place between 1:00 and 3:00pm without the students being present. Beginning at 3:00pm, the judges will meet with each student and discuss his or her presentation.

**GROUP 1**

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Sexual Outcome Expectancy Trajectories among Impoverished Black Adolescent

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**AUBREY LONG // Psychology**  
Faculty Mentor:  
Andrea Glenn // Psychology  
Effects of religious priming on moral decision-making

79  
**EMILY PICKLE // Psychology**  
Faculty Mentor:  
Ansley Gilpin // Psychology  
The Improvement of Inhibitory Control and Peer Interactions of Preschool-Aged Children

80  
**MAURY HOLLIMAN // Psychology**  
Faculty Mentor:  
Ariane Prohaska // Criminal Justice  
Non-Natives as a Vulnerable Population Following a Natural Disaster

81  
**MOLLY CORY // Psychology**  
Faculty Mentor:  
Beverly Roskos // Psychology  
Technology Use and Driver Mental Resources

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**MEGAN LYONS // Psychology**  
Faculty Mentor:  
Beverly Thorn // A&S - Psychology  
Predictors of Healthcare Utilization in Rural Patients with Chronic Pain

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**ASHLEY DAUGHERTY & CAITLYN WALKER // Anthropology**

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**EMMA DUNCAN // Biological Sciences**  
**BERKELEY HALL // Mathematics**  
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Chris Lynn // Anthropology  
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DIVISION OF SOCIAL SCIENCES
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Christopher Lynn // Anthropology
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Danielle Peters // Advertising & Public Relations
Faculty Mentor:
Caryl Cooper // Advertising & Public Relations
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Rob Barlow // Anthropology
Faculty Mentor:
Virgil Beasle// Anthropology
Visibility Analysis of Hinterland Mound Centers in the Black Warrior Valley

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Emily Mace // Psychology
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Fran Conners // Psychology
Gayle Faught // Psychology
Lani Shellhouse // Psychology
Improving Auditory Skills in Children With Down Syndrome With Hearbuilder

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Christina Green // Psychology
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Forrest Scogin / A&S - Psychology
Addressing Memory Concerns: A Community Cognitive Screening Event

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Joo Young Yang // Psychology
Faculty Mentor:
Giyeon Kim // Psychology
Limited English Proficiency and Psychological Distress among Elderly Asian Americans: Mental Health Disparities within Asian Population

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Taylor Wallace // Chemical & Biological Engineering
Alex Sents // Biological Sciences
Faculty Mentor:
Jason DeCaro // Anthropology
Power PATH Head Start Intervention

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Anna Kate Faulk // Anthropology
Faculty Mentor:
John Blitz // Anthropology
What Can Vessel Forms Tell Us About Archaeological Sites?

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Rebecca Fischer // Psychology
Faculty Mentor:
James Hamilton // Psychology
Factitious Cyberbullying

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Kristen Morris // Psychology
Faculty Mentor:
Jennifer Cox // Psychology
The Effect of Victim Gender and Criminal History on Sentencing

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Bethany Herndon // Psychology
Faculty Mentor:
Jennifer Cox // Psychology
The Construct and Application of Aversive Racism in the Criminal Justice System

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Andy Hurst // A&S - Psychology
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Matthew Jarrett / A&S - Psychology
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Matthew Jarrett // Psychology
Dane Hilton // Psychology
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Madeleine Evans // Communicative Disorders
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Memorie Gosa // Communicative Disorders
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Faculty Mentor: Nichole Bauer // Political Science  
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| 101     | **Megan Craig** // Political Science  
Faculty Mentor: Nichole Bauer // Political Science  
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| 102     | **Allison Bouslog** // Psychology  
Faculty Mentor: Philip Gable // Psychology  
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| 103     | **Taylor Younginer** // Psychology  
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John Lochman // Psychology  
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| 105     | **Delphanie Wu** // Communicative Disorders  
Faculty Mentors: Rebecca Brooks // Communicative Disorders  
Darrin Griffin // Communication Studies  
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| 106     | **Samuel Ostrow** // Political Science  
Faculty Mentor: Stephen Borrelli // Political Science  
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| 107     | **Courtney Ricciardi** // Psychology  
**Haleigh Hulsey** // Biological Sciences  
Faculty Mentor: Jason Scofield // Human Development & Family Studies  
The Effect of Temporary, Transgressor Related Factors on Children's Judgments |
| 108     | **Chloe Hogue** // Psychology  
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2:00 pm
**ASHLEY BROWN** // Culverhouse School of Accountancy
Faculty Mentor:
Lisa McKinney // Culverhouse School of Accountancy
Business Education to Assist Economic Restoration in Haiti

2:20 pm
**KANITTA KULPRATHIPANJA** // Economics, Finance & Legal Studies
Faculty Mentor:
Robert Reed // Economics, Finance and Legal Studies
The Impact of Banking Concentration in the United States

## Schedule of Poster Presentations // 8:00-11:00 AM

1
**CAMERON HARVEY & PATRICK MITCHELL** // Information Systems, Statistics & Management Science
Faculty Mentors:
Burcu Keskin // Information Systems, Statistics & Management Science
Mesut Yavuz // Information Systems, Statistics & Management Science
Patrol Routing with Alternative Fuel Vehicles

2
**LOGAN TARBOX** // Information Systems, Statistics & Management Science
Faculty Mentor:
Phillip Burns // Student Affairs
Improving Technical Literacy in Non-Profits

3
**ALLEXA GARDNER** // Economics, Finance & Legal Studies
Faculty Mentor:
Paan Jindapon // Economics, Finance & Legal Studies
Analysis of the Cost-Effectiveness of Cancer Spending on Survival Gains

4
**KATHERINE O’CONNOR** // Economics, Finance & Legal Studies
Faculty Mentor:
Paan Jindapon // Economics, Finance & Legal Studies
A Sequential Rent-Seeking Experiment

5
**JOHN DEEBLE** // Economics, Finance & Legal Studies
Faculty Mentor:
Robert Brooks // Economics, Finance & Legal Studies
Trial by Fire: A Performance Comparison of Several Option Valuation Models Using Historical Asset Price Data

6
**DEREK CARTER** // Economics, Finance and Legal Studies
Faculty Mentor:
Stephanie Brewer // Student Affairs
Economic Freedom and Corruption
2:00 pm  
**Kacey Smit, Eric Mayo & Hunter Bethea**  
Communication Studies  
Faculty Mentor:  
Darrin Griffin // Communication Studies  
Faith and Resiliency

2:20 pm  
**Ashley Robbins, Ashley Paulmeno & Turner Waddell**  
Advertising & Public Relations  
Faculty Mentors:  
Teri Henley // Advertising & Public Relations  
Gerald Waters // Advertising & Public Relations  
Developing a Consumer Segmentation Strategy to Identify Snapple’s Target Audience

2:40 pm  
**Jenna Heard, Emily Clack, Claire Stuart, Elizabeth Broussard & Morgan McKinney, Maret Montanari**  
Advertising and Public Relations  
Faculty Mentors:  
Teri Henley // Advertising and Public Relations  
Gary Creek // Advertising and Public Relations  
Alabama Medicaid’s RCO Rebrand Research

3:00 pm  
**Bryneth Buckner**  
Communication Studies  
Faculty Mentor:  
Meredith Bagley // Communication Studies  
Exploring the Visual Rhetoric of a Non-Profit Organization
College of Communication & Information Sciences
Schedule of Poster Presentations // 8:00-11:00 AM

7 Megan Zartman // Communication Studies
Faculty Mentor:
Carol Mills // Communication Studies
The Effect of Significant Others on Sister Relational Closeness in College, and What Can Be Done About It.

8 Chloe Hill // Culverhouse School of Accountancy
Faculty Mentors:
Chip Brantley // Journalism
Andrew Grace // Journalism
In Fact: The Story of a Cuban Detainee Uprising in Talladega

9 Briana Bettison // Advertising & Public Relations
Faculty Mentor:
Caryl Cooper // Advertising & Public Relations

10 Brandon Hooks, Maunica Malladi & Taylor Carvalho // Political Science
Joshua Fuller // Criminal Justice
Michael Ciulla // Culverhouse School of Accountancy
Faculty Mentor:
Mary Meares // Communication Studies
Serbia Fellowship Experience

11 Michaiah Smith // Advertising & Public Relations
Patrick Campbell & Andrew Thurman // Communication Studies
Faculty Mentor:
Kim Yonghwan // Telecommunications & Film
Student Participation in intramural athletics and student satisfaction with UA life
COLLEGE OF EDUCATION
SCHEDULE OF ORAL PRESENTATIONS // ROOM 3110

9:00 am
EMILY PICKLE // Psychology
Faculty Mentors:
Elizabeth Wilson // Curriculum and Instruction
Jason Garvey // Educational Leadership, Policy & Technology Studies
Experiences of Perceived Discrimination among Arab Students and Arab Non-Students

9:20 am
ANNA FOSTER // Anthropology
Faculty Mentor:
Philo Hutcheson // Educational Leadership, Policy & Technology Studies
Resegregation in Macon County Public Schools

COLLEGE OF EDUCATION
SCHEDULE OF POSTER PRESENTATIONS // 8:00-11:00 AM

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ALLYSON PITZEL // Special Education & Multiple Abilities
Faculty Mentor:
Carol Donovan // Special Education & Multiple Abilities
Helping to Create the Ideal Kindergarten Classroom by Gaining Insight into Early Childhood Personality Types

13
EMILY LEWIS // Curriculum & Instruction
Faculty Mentor:
Elizabeth Wilson // Curriculum & Instruction
Theatrical Techniques in the ELA Classroom
14
Michael Dunn // Civil, Construction & Environmental Engineering
Faculty Mentor:
Alex Hainen // Civil, Construction & Environmental Engineering
Comparative Traffic Analysis of Proposed Flyover at US-11 and AL-69 Using Microsimulation

15
Brodie Wallace // Aerospace Engineering & Mechanics
Faculty Mentor:
Charles O'Neill // Aerospace Engineering & Mechanics
Aircraft Dynamic Rate Derivatives Extraction for Design and Test-flight Support

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Michael Outlaw // Electrical & Computer Engineering
Faculty Mentor:
David Dixon // Chemical & Biological Engineering
Computational Studies of the Hydrolysis of (RuO2)n ( n= 1 - 3) Nanoclusters

17
Benjamin Romano // Computer Science
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Jeff Gray // Computer Science
Managing The Internet of Things

18
Rachel Gentry // Electrical & Computer Engineering
Faculty Mentors:
Jaber Abu Qahouq // Electrical & Computer Engineering
Zhiyong Xia // Electrical & Computer Engineering
State-Of-Health Estimation of Batteries using Offline and Online AC Impedance Measurements

19
Valerie Levine // Chemical & Biological Engineering
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Jason Bara // Chemical & Biological Engineering
John Whitley // Chemical & Biological Engineering
Preparation of Polymeric Materials in Coordinated Ionic Liquid Media

20
Paaras Agrawal // Chemical & Biological Engineering
Faculty Mentor:
Jason Bara // Chemical & Biological Engineering
Development of Structured Distillation Packing through Additive Manufacturing

21
Haley Loftis // Electrical & Computer Engineering
Faculty Mentor:
Andrew Lemmon // Electrical & Computer Engineering
Feasibility of Indoor Solar Energy Harvesting

22
Melissa Mathews // Chemical & Biological Engineering
Faculty Mentor:
Lin Li // Metallurgical & Materials Engineering
Thickness Dependent Elastic Behavior of Bi2Te3 Two-dimensional Nanosheets

23
Russell Hancock // Aerospace Engineering & Mechanics
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Paul Hubner // Aerospace Engineering & Mechanics
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24
Hannah Larson // Mechanical Engineering
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Paul Puziauskas // Mechanical Engineering
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25
Clayton Wagenhals // Mechanical Engineering
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Richard Branam // Aerospace Engineering & Mechanics
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Mario Maggio // Aerospace Engineering & Mechanics
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Wen Walsh // Aerospace Engineering and Mechanics
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Nicholas Davies // Mechanical Engineering
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Wei Song // Civil, Construction & Environmental Engineering
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Husam Ali // Chemical and Biological Engineering
Faculty Mentor:
Yuping Bao // Chemical and Biological Engineering
MRI: T1 or T2

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Electrical & Computer Engineering
Faculty Mentor:
Yang-Ki Hong // Electrical and Computer Engineering
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**ADRIENNE HAYES, TRINICIA BODDEN, MAGDALENA CHAVEZ & WHITNEY LACOUR** // Human Development & Family Studies  
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Sherwood Burns-Nader // Human Development & Family Studies  
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**JARED HALSTROM** // Biological Sciences  
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**MAXTON THOMAN** // Biological Sciences  
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**Callie Garrison** // Health Science
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75  **CAITLIN WALL & MARY PAT PEEPLES //**  Consumer Sciences
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76  **BRIANNE CRONENWETT & JENNIFER SCHOPP //**  Consumer Sciences
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91 Rachel Fuller & Emily Valdez // Capstone College of Nursing
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92 Hannah Browdy // Capstone College of Nursing
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93 Rachel Hunnicutt // Capstone College of Nursing
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94 Caitlin Taylor & Lucas Urbi // Capstone College of Nursing
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95 Madison Stankevich // Capstone College of Nursing
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96 Amy Akel // Capstone College of Nursing
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101 Meggie Owen-Patterson, Corrine Nulph, Kimberly Mullins, Jordan Kitterman Michael Kirkpatrick, Allison Guebert, Nicki Stasiak & Madison Montanari // Capstone College of Nursing
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Subhadra Gupta // Metallurgical & Materials Engineering
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Faculty Mentors:
Margaret Liu // Chemical & Biological Engineering
Ningning Xu // Chemical & Biological Engineering
Establish An Efficient CHO Platform For Antibody Productions

119
Coleman Harris // Computer Science
Faculty Mentor:
Adam Hauser // Physics & Astronomy
ZrOH4 nanoparticles for impedance-based NO2 detection

120
Blair Morrison // Biological Sciences
Faculty Mentor:
Ryan Earley // Biological Sciences
Does ocean acidification drive changes in the aggressive behavior of mangrove rivulus fish (Kryptolebias marmoratus)?
Emerging Scholars

Schedule of Poster Presentations

121
Evan Brannon // Civil, Construction & Environmental Engineering
Faculty Mentors:
Ken Fridley // Civil, Construction & Environmental Engineering
Thang Dao // Civil, Construction & Environmental Engineering
Tu Ho // Civil, Construction & Environmental Engineering
Impact of Wind on Structures

122
Liam Finnegan, Katherine Beyer & Abbey Lauterbach // Chemical & Biological Engineering
Faculty Mentors:
Margaret Liu // Chemical & Biological Engineering;
Jianfa Ou // Chemical & Biological Engineering
Butanol Fermentation from Biomass via a Cellulolytic Bacteria, Clostridium Cellulovorans-adhE2

123
Jennie Kriznik // Human Development & Family Studies
Faculty Mentor:
Asma Hatoum-Aslan // Biological Sciences
Combating Drug-Resistant Staphylococci with Bacterial Viruses

124
Austin Brooks // Biological Sciences
Faculty Mentors:
Ryan Earley // Biological Sciences
Elizabeth Johnson // Biological Sciences
The behavioral effects of endocrine disrupting compounds on mangrove rivulus fish.

125
Caroline Huskin, Gabrielle Waller // Chemical & Biological Engineering
Faculty Mentors:
Margaret Liu // Chemical & Biological Engineering;
Jianfa Ou // Chemical & Biological Engineering
Construction of Butanol Producing Mutant of Clostridium tyrobutyricum

126
Alan Burdick // Capstone College of Nursing
Faculty Mentors:
Ryan Earley // Biological Sciences
Grace Scarsella // Biological Sciences
Does temperature induce sex change in a hermaphrodite fish?

127
Elizabeth Rowe // Chemical & Biological Engineering
Faculty Mentors:
Paul Rupar // Chemistry
Louis Reisman // Chemistry
PEI 3D Printing

128
Keaton Drees // Capstone College of Nursing
Faculty Mentor:
Safiya George // Capstone College of Nursing
Finding the Correlation Between Drug Use & Sexual Risk Behavior in the U.S. Virgin Islands

129
Ethan Lewis // Chemistry
Faculty Mentor:
Jane Rasco // Biological Sciences
Development of an Outbred Strain of Celiac Disease in Swiss Webster Mice

130
Lucas Nelson, Madeline Peterson, Madeline Stewart & Brianna Zarrinfar // Biological Sciences;
Megan McCorkle // Kinesiology
Faculty Mentors:
Jonathan Wingo // Kinesiology
Matthew Leatherwood // Kinesiology
Tori Stone // Kinesiology
Effect of Exercise Mode on Cardiovascular Drift & Maximal Oxygen Uptake During Heat Stress

131
Pierce McLawhorn // Mathematics
Faculty Mentor:
Burcu Keskin // Information Systems, Statistics & Management Science
Online Optimization: Applications in Healthcare, Public Safety, & Supply Chain Management
EMERGING SCHOLARS

SCHEDULE OF POSTER PRESENTATIONS

132
**Michael Patterson // Chemistry**
Faculty Mentor:
Daniel Goebbert // Chemistry
Johnny Lightcap // Chemistry
Fragmentation of copper acetate nitrate anion complexes

133
**Ali Stedke & Coyt Majure // Biological Sciences**
**Rachel Brown // Chemical & Biological Engineering**
Faculty Mentor:
Matthew Jenny // Biological Sciences
Effects of Open & Closed Gates in a Plus Maze on the Associative Learning of Zebrafish

134
**John Andrews // Engineering - Computer Science**
Faculty Mentor:
Preethi Nair // Physics & Astronomy
Applying General Pattern Recognition Software to Galaxy Image Classifications

135
**Christian Hutley // Electrical & Computer Engineering**
Faculty Mentor:
Monica Anderson // Computer Science
Pervasive Computing - Collecting User Habits at Scale

136
**Clark Conway // Civil, Construction & Environmental Engineering**
Faculty Mentor:
Rona Donahoe // Geological Sciences
Reclaimed Strip Mines on the Lake Harris & Lake Nicol Watersheds

137
**Rebecca Denson, Allison Beggin & Sarah Quick // Biological Sciences**
Faculty Mentor:
Matthew Jenny // Biological Sciences
The effects of aging on female zebrafish learning & memory capacity

138
**Charles Pitsenberger // Biological Sciences**
Faculty Mentor:
Jeffrey Lozier // Biological Sciences
Identifying candidate genes involved in color differentiation in Bombus bifarius

139
**Sydney Ezelle // Civil, Construction & Environmental Engineering**
Faculty Mentors:
Wei Song // Civil, Construction & Environmental Engineering
Blair Butler // Civil, Construction & Environmental Engineering
Displacement of a System

140
**William Bounds // Electrical & Computer Engineering**
Faculty Mentor:
Jeff Jackson // Electrical & Computer Engineering
Customizable Vehicle Diagnostics Application Utilizing Bluetooth

141
**Alexandra Mannings // Physics & Astronomy**
Faculty Mentors:
Jeremy Bailin // Physics & Astronomy
Krista McCord // Physics & Astronomy
Exploring Parameter Space: A look at galactic evolution through simulations
SCHEDULE OF ORAL PRESENTATIONS // ROOM 3103

2:00 PM
MOLLY BUFFINGTON // History
Faculty Mentor: Charles Clark // History
American Views of the North Russian Expedition, 1918-1928

2:20 PM
REBECCA MURDOCH // Telecommunication & Film
Faculty Mentor: Kristen Warner // Telecommunication & Film
The Matriarch-Tree: Motherhood and Intergenerational Feminism in Gilmore Girls and Jane the Virgin

SCHEDULE OF POSTER PRESENTATIONS // 1:00 - 3:00 PM

109
LIZA ROGERS & PEIRSON ROGERS // Clothing, Textiles & Interior Design
Faculty Mentor: Marcy Koontz // Clothing, Textiles & Interior Design
(re)Fashioning Vintage: Visual Branding for a New Local Small Business with a Smart Phone Camera & Social Media Platforms

110
WILLIAM McCRARY // History
Faculty Mentor: George Rable // History
Civil War Values: What the War is Doing to the Country

111
SARAI RUSSELL // English
Faculty Mentor: Barbara Brickman // New College
Greased Lightning
2:00 PM
CAROLINE PRITCHARD // School of Social Work
Faculty Mentor:
Brenda Smith // School of Social Work
How realistic are “realistic job previews” in child welfare? Implications for employee retention and turnover

2:20 PM
MANOJ SUNNY // Economics, Finance & Legal Studies
Faculty Mentors:
Paul Drnevich // Management & Marketing
Collin Gilstrap // Economics, Finance & Legal Studies
M&A Premiums Comparison: Same Industry vs Cross Industry Analysis

2:40 PM
MATTHEW HALL // Information Systems, Statistics & Management Science
Faculty Mentor:
James Cochran // Information Systems, Statistics & Management Science
MLB Pitcher Performance on Balls in Play

3:00 PM
REBECCA FLEISIG // Management & Marketing
Faculty Mentors:
Regina Lewis // Advertising & Public Relations
Susan Fant // Management & Marketing
Lindsay Sutton // Advertising & Public Relations
Millennials’ Expectations About Their Work Lives in 2025

3:20 PM
LARISSA MAGERA // Advertising and Public Relations
Faculty Mentor:
Regina Lewis // Advertising and Public Relations
“A Further Look into the Positive and Negative Effects of being Connected 24/7”

3:40 PM
LAUREN CRAWFORD // Economics, Finance & Legal Studies
Faculty Mentor:
Robert Reed // Economics, Finance & Legal Studies
The Causes and Consequences of Bank Failures in Canada

4:00 PM
ALLIE BARTHOLOMEW // Culverhouse School of Accountancy
Faculty Mentor:
Todd DeZoort // Culverhouse School of Accountancy
The Use of a Student Whistleblower Policy in Higher Education to Manage Academic Misconduct
Emerging Scholars

Schedule of Poster Presentations // 1:00-3:00 PM

112
Mallory Connolly // Capstone College of Nursing
Faculty Mentor:
Andrea Cevasco-Trotter // Music
Stress responses of ELBW premature infants: An analysis of responses during music & multimodal stimulation sessions

113
Daniel Dougherty // Economics, Finance & Legal Studies
Faculty Mentor:
Victoria Javine // Economics, Finance & Legal Studies
Is Doing Good Bad for Investors? The Case of Socially Responsible ETFs & Mutual Funds

114
Stephanie Register // Human Nutrition & Hospitality Management
Faculty Mentors:
Amy Ellis // Human Nutrition & Hospitality Management
Weight Gain in College Female Students: A Literature Review

115
Stephanie Mackenzie // Psychology
Faculty Mentor:
James Hamilton // Psychology
The Prevalence & Correlates of Excessive Medical illness Behavior: A Study of Collateral Sources

116
Brian Roberts // Biological Sciences
Elizabeth Elkin // Journalism
Faculty Mentors:
Scott Parrott // Journalism
Anna Gwarjanski // Journalism
News Coverage of Schizophrenia

117
Isabelle Beauregard // Gender & Race Studies
Faculty Mentor:
Dana Patton // Political Science
Paid Parental Leave Policies & Their Effects on Infant Mortality Rates

118
Alex Serman // Economics, Finance & Legal Studies
Faculty Mentor:
William Walsh // Economics, Finance & Legal Studies
Gulf Red Snapper Resource Allocation Analysis

119
Rachael Drake // Capstone College of Nursing
Faculty Mentors:
Kristina McDonald // Psychology
Callie Gibson // Psychology
Empathy for Rejected Others: The Moderating Role of Rejection Sensitivity

120
Justin Chambers & Anna Claire Smith // Information Systems, Statistics & Management Science
Faculty Mentors:
Jeff Lucas // Information Systems, Statistics & Management Science
Uzma Raja // Information Systems, Statistics & Management Science
Adoption of New Technology Platform: A Life Cycle

121
Jessica Fulwider // Psychology
Faculty Mentor:
Theodore Tomeny // Psychology
Autism & Typically-Developing Siblings: Relations with Social Support

122
Elizabeth Elkin // Journalism
Brian Roberts // Biological Sciences
Faculty Mentors:
Scott Parrott // Journalism
Anna Rae Gwarjanski // Journalism
Gender in Politics: How current events affect perceptions of gender in politics

123
Claire Parker // Electrical & Computer Engineering
Faculty Mentors:
Paul Puzinauskas // Mechanical Engineering
Kaylie Crosby // Mechanical Engineering
Implementation of Onboarding Procedure Will Lead to Increase in Team Motivation & Involvement
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<td>An Evaluation of Corporate Tax Practices</td>
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<td>Lymphedema in Breast Cancer Patients: Identifying the Gap from the Literature</td>
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<td><strong>Lori Turner</strong> // Health Science</td>
<td>Beliefs, Use &amp; Misuse of Psychiatric Medications among College Students</td>
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<td>A Study of the Role of Music &amp; Religion on African American Adolescent Females’ Sexual Beliefs &amp; Behaviors</td>
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<td><strong>Emily Stebbins</strong> // Psychology</td>
<td><strong>Lance Kinney</strong> // Advertising &amp; Public Relations</td>
<td>The Cosmo Girl: Who is the “Fun, Fearless Female?”</td>
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<td><strong>William Hart</strong> // Psychology</td>
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<td><strong>Megan Anderson</strong> // Economics, Finance &amp; Legal Studies</td>
<td><strong>Philip Gable</strong> // Psychology</td>
<td>Did Pixar Get It Right?: The Influence of Disgust, Anger, &amp; Sadness on Memory</td>
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**Emerging Scholars**

**Schedule of Poster Presentations**

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**Emerging Scholars**

**Schedule of Poster Presentations**
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<td>Analysis of Personality Traits &amp; Political Ideology</td>
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<td>Bradley Johansen</td>
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<td>Shawn Mobbs // Economics, Finance &amp; Legal Studies</td>
<td>Do Shareholders Value CFO Board Membership?</td>
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**Ten Plus Ten**

**Ten Plus Ten** is collaboration between student artists and student researchers. Each artist is assigned a researcher and given 10 hours to go from theory to canvas. Artwork will be displayed throughout the Ballroom.

**Artist //**

**Melody Knight //** Art  
**Alyssa Bentley //** Marine Science & Biology  
**Mei Ray //** Art (Pre-Med)  
**Grace Kurosaka //** Dance, Biology, Pre-med  
**Sophie Williams //** Biology, English  
**Zoey Zelmore //** International Studies  
**Magdalene Kennedy //** New College - Interdisciplinary  
**Emily Sturgeon //** Telecommunication & Film  
**Devyn Danley //** Anthropology & international studies  
**Jessica Shieh //** Marketing & International Studies

**Researchers //**

**Connor Buckley //** Marine Science, Biology  
**Preston Hinkel //** Chemical Engineering  
**Cody Colclough //** Chemistry, Chemical Engineering  
**Sean Miller //** Biochemistry  
**Kelsey Lowman //** Microbiology  
**Sahiti Madireddy //** Biology  
**Alison Farrar //** Mathematics & Physics  
**Emily Schmidt //** Physics  
**John Reynolds //** Physics (Biology Concentration)  
**Sam Mukkamala //** Biology
SPECIAL THANKS TO THE DEANS AND THEIR OFFICES FOR THEIR SUPPORT

COLLEGE OF ARTS & SCIENCES
COLLEGE OF COMMUNICATION & INFORMATION SCIENCE
COLLEGE OF EDUCATION
COLLEGE OF ENGINEERING
COLLEGE OF HUMAN ENVIRONMENTAL SCIENCE
CAPSTONE SCHOOL OF NURSING
CULVERHOUSE COLLEGE OF COMMERCE
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PURE BARRE