The 2020 BEAR Day postcards and posters have been printed in a limited edition of 11 distinct designs, selected from Professor Tennille Shuster’s ART 342 Typography II class. Be sure to collect them all!

Designed by
Cat Hicks-Anderson - 1 & 6 • Amanda Schwartz - 2 • Emily Stradling - 3 & 9 • Alexandra Frink - 4, 7 & 8 • Lydreyah Simmons - 5, 10 & 11
# Career and Professional Development Week

**March 23-28**

<table>
<thead>
<tr>
<th><strong>Monday</strong></th>
<th>March 23</th>
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</thead>
<tbody>
<tr>
<td><strong>Workshop: The Skill of Simple Networking</strong>&lt;br&gt;Macon Campus</td>
<td>GSC 103</td>
</tr>
<tr>
<td><strong>Professional Headshot Photos</strong>&lt;br&gt;(Linkedin, Handshake, etc.)&lt;br&gt;Atlanta Campus</td>
<td>Trustees Dining Room</td>
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<thead>
<tr>
<th><strong>Tuesday</strong></th>
<th>March 24</th>
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<tbody>
<tr>
<td><strong>Workshop and Webinar: Grad School 101</strong>&lt;br&gt;Macon Campus</td>
<td>GSC 102</td>
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<tr>
<td><strong>Career Questions Virtual Drop-In Hours</strong>&lt;br&gt;10-12 and 1-3pm</td>
<td><a href="http://bit.ly/virtualofficeMU">Link: http://bit.ly/virtualofficeMU</a></td>
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<tr>
<th><strong>Wednesday</strong></th>
<th>March 25</th>
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<tbody>
<tr>
<td><strong>Webinar: Etiquette for Workplace Emails</strong>&lt;br&gt;Virtual</td>
<td>1pm</td>
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<td><strong>Etiquette Dinner</strong>&lt;br&gt;Macon Campus</td>
<td>Presidents Dining Room</td>
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<tr>
<th><strong>Thursday</strong></th>
<th>March 26</th>
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<tbody>
<tr>
<td><strong>Webinar: Applying to Grad School</strong>&lt;br&gt;Virtual</td>
<td>1pm</td>
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<tr>
<td><strong>Workshop: Deciding on Professional School Targets</strong>&lt;br&gt;Macon Campus</td>
<td>GSC 103</td>
</tr>
<tr>
<td><strong>Professional Profile Photos</strong>&lt;br&gt;(Linkedin, Handshake, etc.)&lt;br&gt;Macon Campus</td>
<td>3:30-6:30pm</td>
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<thead>
<tr>
<th><strong>Friday</strong></th>
<th>March 27</th>
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<tbody>
<tr>
<td><strong>Workshop and Webinar: Keys to a Successful Job Search</strong>&lt;br&gt;Henry County Center</td>
<td>3pm</td>
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<tr>
<td>**Atlanta Tech Village</td>
<td>ChowDown + Walking Tour**&lt;br&gt;Atlanta Tech Village is a startup hub in Atlanta&lt;br&gt;12:00-2pm</td>
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<tr>
<th><strong>Saturday</strong></th>
<th>March 28</th>
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<tbody>
<tr>
<td><strong>Professional Headshot Photos</strong>&lt;br&gt;(Linkedin, Handshake, etc.)&lt;br&gt;Atlanta Campus</td>
<td>AACC 2nd Floor</td>
</tr>
</tbody>
</table>

Attend events based on your availability, not campus affiliation. All events are free.

For more details on all of these events go to career.mercer.edu or mercer.joinhandshake.com

#connecttoyourfuture
Theatrical Inconveniences or

Viva la Mamma!

Directed by Martha Malone
March 26-28 at 7:30 PM
March 29 at 3:30 PM

Mercer University Opera
Neva Langley Fickling Hall

Tickets $15 or FREE with Mercer or any valid student ID
A CAREER AND PROFESSIONAL DEVELOPMENT WEEK EVENT

Professional Profile Photos

Stop by to have a professional photo taken to update your profile picture on LinkedIn, Handshake and other online platforms. Helpful reminder: dress in clothes that are considered business professional for your discipline.

THURSDAY, MARCH 26
3:30-6:30PM
INTRAMURAL COURTS - UNIVERSITY CENTER

#connecttoyourfuture
FIELD DAY

MARCH 25TH @ 7PM
AT IM GYM COURTS

MERCER RELAY FOR LIFE

PUT TOGETHER A TEAM OF SIX & COMPETE IN A SERIES OF FUN RELAY RACES FOR A PRIZE!
TEAM REGISTRATION FEE $18 ($3 PER PERSON)

PROCEEDS BENEFIT THE AMERICAN CANCER SOCIETY

TSHIRTS WILL BE SOLD
Welcome to the 10th Annual BEAR Day Celebration!

Greetings, and welcome to the 10th annual Breakthroughs in Engagement, the Arts and Research (BEAR) Day and Engineering Expo Day celebration! This year, we once again showcase outstanding undergraduate student research and special projects. BEAR Day includes oral presentations, poster sessions, musical presentations and art show exhibits. The program this year has over 280 oral and poster presentations, with contributions from over 400 students. At the same time, Engineering Expo Day events feature poster presentations on senior design projects and the annual Freshman Design Competition in the University Center arena, with over 300 students participating and presenting in the Engineering Expo program events.

The keynote speaker for BEAR Day 2020 is Lynn Pasquerella, Ph.D. Dr. Pasquerella is participating in BEAR Day events as part of the third annual Malcolm Lester Phi Beta Kappa Lectures on Liberal Arts and Public Life. Dr. Pasquerella is the current president of both the Association of American Colleges and Universities (AAC&U) and the Phi Beta Kappa Society. Dr. Pasquerella is a philosopher by training, earning degrees from Quinebaug Valley Community College, Mount Holyoke College and Brown University. She has spent her career ensuring access to a quality liberal education for all students, and is recognized as one of the most prominent and forceful advocates for liberal arts in higher education today. She has received honorary doctorates from Elizabethtown College, Bishop’s University, the University of Hartford, the University of South Florida and the University of Rhode Island. While at Mercer, she will present three lectures on the theme “What We Value” on Thursday and Friday of Bear day. We encourage all to attend!

I know you will enjoy all of the presentations and trust that BEAR Day will spark your own intellectual curiosity and inspire further scholarly pursuits.

Sincerely, Wayne C. Glasgow, Ph.D.
Senior Vice Provost for Research
Mercer University welcomes Dr. Lynn Pasquerella to give the 2020 Malcolm Lester Phi Beta Kappa Lectures on Liberal Arts and Public Life. Dr. Pasquerella will present three lectures on the theme “What We Value” during BEAR Day. Dr. Pasquerella’s opening lecture, “Moral Distress and the Concept of Death as Un-American,” will take place March 26 at 11 a.m., followed by “On Snowflakes, Chilly Climates, and Shouting to be Heard: Weathering Campus Storms” at 6 p.m. The series will conclude with “Educating for Democracy in a Post-Truth Era” March 27 at 11 a.m. All talks will be located in the President’s Dining Room in the University Center.

Dr. Pasquerella is a graduate of Quinebaug Valley Community College, Mount Holyoke College and Brown University, where she earned her Ph.D. in philosophy. She has spent her career ensuring access to a quality liberal education for all students, and is recognized as one of the most influential advocates for liberal arts education in the United States. Dr. Pasquerella has served as provost of the University of Hartford, president of Mount Holyoke College and a member of numerous advisory boards. She has written many publications on medical ethics, metaphysics, public policy and philosophy of law. She has received honorary doctorates from Elizabethtown College, Bishop’s University, the University of Hartford, the University of South Florida and the University of Rhode Island. Dr. Pasquerella is currently the president of both the Association of American Colleges and Universities (AAC&U) and of Phi Beta Kappa Society. In 2019, she was named one of America’s Top 35 Women in Higher Education by Diverse: Issues in Higher Education.
BEAR Day Moderators

This year we received a tremendous amount of support from faculty members across campus who volunteered to moderate Oral Presentation sections. *We thank all faculty that submitted requests to moderate sections*, including those below who are moderating sessions throughout the day!

<table>
<thead>
<tr>
<th>Moderator</th>
<th>Session</th>
<th>Time</th>
<th>Room</th>
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</thead>
<tbody>
<tr>
<td>Arash Afshar</td>
<td>General Papers in Engineering and Material Science</td>
<td>2:00 PM - 3:20 PM</td>
<td>GSC 210</td>
</tr>
<tr>
<td>Alana Alvarez</td>
<td>Public Health and Health Studies</td>
<td>1:00-2:40</td>
<td>GSC 220</td>
</tr>
<tr>
<td>Kristen Bailey</td>
<td>Human and Environmental Rights</td>
<td>1:00 PM - 2:40 PM</td>
<td>WSC 156</td>
</tr>
<tr>
<td>Jay Black</td>
<td>Symposium: 2020 Presidential Primaries, the Media, and Communication</td>
<td>9:00 AM - 11:40 AM</td>
<td>WSC 155</td>
</tr>
<tr>
<td>Thomas Bullington</td>
<td>Arts, Humanities, and Languages: Literature</td>
<td>10:00 AM - 11:00 AM</td>
<td>GSC 220</td>
</tr>
<tr>
<td>Craig Byron</td>
<td>General Papers in the Natural, Physical, and Biomedical Sciences</td>
<td>9:00 AM - 10:00 AM</td>
<td>GSC 103</td>
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<tr>
<td>Susan Canon</td>
<td>General Papers in Education</td>
<td>10:00 AM - 11:00 AM</td>
<td>WSC 156</td>
</tr>
<tr>
<td>Kevin Cummings</td>
<td>Symposium: 2020 Presidential Primaries, the Media, and Communication</td>
<td>9:00 AM - 11:40 AM</td>
<td>WSC 155</td>
</tr>
<tr>
<td>Jeff Denny</td>
<td>General Papers in the Natural, Physical, and Biomedical Sciences</td>
<td>1:00 PM - 2:00 PM</td>
<td>GSC 103</td>
</tr>
<tr>
<td>Abigail Dowling</td>
<td>Arts, Humanities and Languages: History</td>
<td>11:00 AM-Noon</td>
<td>GSC 220</td>
</tr>
<tr>
<td>Darlene Flaming</td>
<td>General Papers in Journalism and Communication Studies</td>
<td>9:00 AM - 9:40 AM</td>
<td>WSC 156</td>
</tr>
<tr>
<td>Jonathan Glance</td>
<td>Arts, Humanities, and Languages: Literature</td>
<td>9:00 AM - 10:00 AM</td>
<td>GSC 220</td>
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<tr>
<td>Derek Glasgow</td>
<td>General Papers in Social Science</td>
<td>10:00 AM-11:00 AM</td>
<td>GSC 450</td>
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<tr>
<td>Robert Good</td>
<td>Arts, Humanities and Languages: History</td>
<td>10:00 AM - 11:00 AM</td>
<td>GSC 220</td>
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<tr>
<td>David Goode</td>
<td>General Papers in the Natural, Physical, and Biomedical Sciences</td>
<td>2:00 PM-2:40</td>
<td>GSC 103</td>
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<tr>
<td>Name</td>
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<tr>
<td>Chris Grant</td>
<td>Symposium: 2020 Presidential Primaries, the Media, and Communication</td>
<td>9:00 AM - 11:40 AM</td>
<td>WSC 155</td>
</tr>
<tr>
<td>Anita Gustafson</td>
<td>Arts, Humanities and Languages: History</td>
<td>9:00 AM - 10:00 AM</td>
<td>GSC 220</td>
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<tr>
<td>Matthew Harper</td>
<td>Arts, Humanities and Languages: History</td>
<td>1:00 PM - 2:20 PM</td>
<td>GSC 220</td>
</tr>
<tr>
<td>Lori Johnson</td>
<td>Symposium: Public Policy Analysis and Recommendations</td>
<td>9:00 AM - Noon; 1:00 PM - 1:30 PM</td>
<td>GSC 210</td>
</tr>
<tr>
<td>Riku Kawaguchi</td>
<td>General Papers in Social Science</td>
<td>11:00 AM-11:40 AM</td>
<td>GSC 450</td>
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<tr>
<td>Joseph Keene</td>
<td>General Papers in the Natural, Physical, and Biomedical Sciences</td>
<td>10:00 AM - 11:40 AM</td>
<td>GSC 103</td>
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<tr>
<td>Achim Kopp</td>
<td>Arts, Humanities and Languages: Classical and Modern Languages</td>
<td>9:00 AM - 9:40 AM</td>
<td>WSC 103</td>
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<tr>
<td>Scot Mann</td>
<td>Arts, Humanities and Languages: Film and Theater</td>
<td>11:00 AM - Noon</td>
<td>WSC 103</td>
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<tr>
<td>Gregory McAmis</td>
<td>General Papers in Business</td>
<td>10:00 AM-Noon</td>
<td>WSC 305</td>
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<tr>
<td>Clara Mengolini</td>
<td>General Papers in Business</td>
<td>1:00 PM-1:40 PM</td>
<td>WSC 305</td>
</tr>
<tr>
<td>Geoffrey Ngene</td>
<td>General Papers in Business</td>
<td>9:00 AM - 10:00 AM</td>
<td>WSC 305</td>
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<tr>
<td>Amy Nichols-Belo</td>
<td>Symposium on Integrating Service and Scholarship: Mercer Service Scholars Senior Projects</td>
<td>1:00 PM - 2:40 PM</td>
<td>WSC 155</td>
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<tr>
<td>Fernando Palacios</td>
<td>Human and Environmental Rights</td>
<td>2:00 PM - 2:40 PM</td>
<td>WSC 156</td>
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<tr>
<td>Shan Ran</td>
<td>General Papers in Social Science</td>
<td>9:00 AM-10:00 AM</td>
<td>GSC 450</td>
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<tr>
<td>Creighton Rosental</td>
<td>Symposium: Senior Thesis in Philosophy</td>
<td>1:00 PM - 3:00 PM</td>
<td>GSC 450</td>
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<tr>
<td>Joanna Thomas</td>
<td>General Papers in Engineering and Material Science</td>
<td>9:00 AM - 11:00 AM; 1:00 PM - 3:00 PM</td>
<td>WSC 104</td>
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<tr>
<td>Joanna Thomas</td>
<td>Symposium: Faculty-Selected Senior Design Projects in Engineering</td>
<td>11:00:00 AM - noon</td>
<td>WSC 104</td>
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<tr>
<td>Fletcher Winston</td>
<td>Symposium: Sociology and Criminal Justice Research</td>
<td>9:00 AM - Noon; 1:00 PM - 3:00 PM</td>
<td>GSC 232</td>
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<tr>
<td>Virginia Young</td>
<td>Arts, Humanities, and Languages: Women and Gender Studies</td>
<td>10:00 AM - 10:40 AM</td>
<td>WSC 103</td>
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Overview of BEAR Day 2020

Thursday March 26, 2020

“Moral Distress and the Concept of Death as Un-American”
Malcolm Lester Phi Beta Kappa Lectures
Dr. Lynn Pasquerella
President’s Dining Room, 11:00 AM - Noon

Career and Professional Development Week: Professional Profile Photos
3:30-6:30 PM, UC Intramural Courts

Poster Session
4:00-6:00 PM, UC Intramural Courts

“On Snowflakes, Chilly Climates, and Shouting to be Heard: Weathering Campus Storms”
Malcolm Lester Phi Beta Kappa Lectures
Dr. Lynn Pasquerella,
President’s Dining Room, 6:00 - 7:00 PM

“Theatrical Inconveniences -or- Viva la Mama”
Mercer University Opera
Neva Langley Fickling Hall, 7:30 PM
Overview of BEAR Day 2020

Friday March 27, 2020

Student Oral Presentations
WSC and GSC, 9:00 AM - Noon

“Educating for Democracy in a Post-Truth Era”
Malcolm Lester Phi Beta Kappa Lectures
Dr. Lynn Pasquerella
President’s Dining Room, 11:00 AM - Noon

Lunch!!!
11:00 AM-1:00 PM, On the Quad (Weather Permitting)

Student Oral Presentations
WSC and GSC, 1:00 PM - 3:30 PM

Honors Convocation
Willingham Auditorium, 4:00 PM

“Theatrical Inconveniences -or- Viva la Mama”
Mercer University Opera
Neva Langley Fickling Hall, 7:30 PM
Click here for oral presentations!

Click here for poster presentations!
# Session Schedule for Oral Presentations

(Click on Sessions to See Details!)

<table>
<thead>
<tr>
<th>Time</th>
<th>9-10:00 AM</th>
<th>10-11:00 AM</th>
<th>11:00-Noon</th>
<th>Noon-1:00 PM</th>
<th>1-2:00 PM</th>
<th>2-3:00 PM</th>
<th>3-4:00 PM</th>
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<tr>
<td>GSC 103</td>
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| Lunch      |             |             |            |              |            |           |           |         |

- **Symposium: Sociology and Criminal Justice Research**  
Pp 15-18
- **Symposium: Faculty-Selected Senior Design Projects in Engineering**  
Pp 20
- **General Papers in Engineering and Materials Science**  
Pp 21
- **Arts, Humanities and Languages: Film and Theater**  
Pp 22
- **General Papers in the Natural, Physical, and Biomedical Sciences**  
Pp 23
- **General Papers in Social Science**  
Pp 24
- **Symposium: Senior Thesis in Philosophy**  
Pp 25
- **Arts, Humanities and Languages: Classical and Modern Languages**  
Pp 26
- **Arts, Humanities and Languages: Women and Gender Studies**  
Pp 27
- **General Papers in Business**  
Pp 28
- **Symposium: Public Policy Analysis and Recommendations**  
Pp 29
- **Arts, Humanities and Languages: History**  
Pp 30
- **Symposium: 2020 Presidential Primaries, the Media, and Communication**  
Pp 31
- **Symposium on Integrating Service and Scholarship: Mercer Service Scholar Senior Projects**  
Pp 32
- **Human and Environmental Rights**  
Pp 33
- **General Papers in Education**  
Pp 34
- **Arts, Humanities and Languages: Literature**  
Pp 35
- **General Papers in Journalism and Communication Studies**  
Pp 36
- **Public Health and Health Studies**  
Pp 37
Symposium: Sociology and Criminal Justice Research*

Moderator: Fletcher Winston

* Each session has 4, 15-minute talks

Slavery is Ok as Long as They Commit a Crime First: Student Perceptions of Incarcerated Persons
Kiki Smith*
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

Crying Babies are the Best Birth Control: Examining College Student Agreement with Universal Access to Birth Control
Madison Meyer*; Oceana Wilcox
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

The Voices for Those Without A Voice: Factors that Influence the Development of Mercer Student’s Opinions Towards Abortion
Sara Wheeler*
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

Do Students Have a False Sense of Security?: Student Perceptions of Safety on Campus
Tara Blecher*
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

RETURN TO SESSION SCHEDULE
**Symposium: Sociology and Criminal Justice Research**

*Moderator: Fletcher Winston*

* Each session has 4, 15-minute talks

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
<th>Faculty Coauthor(s)/Mentor(s)</th>
<th>Research Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 – 11:00</td>
<td>Are Dogs and Cats the Only Ones that Matter? : Examining Student Opinions on the Importance of Enforcement of Animal Abuse Laws Concerning Non-Traditional Pets.</td>
<td>Christine Tortorice*</td>
<td>Fletcher Winston</td>
<td>Social Sciences (Sociology)</td>
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<tr>
<td></td>
<td>Where Can I Defend Myself?</td>
<td>Caleb Winters*; Abigail Zoeller</td>
<td>Fletcher Winston</td>
<td>Social Sciences (Sociology)</td>
</tr>
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<td>Join the Movement!: Student Likelihood of Social Activism Participation</td>
<td>Margaret Kate Lemon*</td>
<td>Fletcher Winston</td>
<td>Social Sciences (Sociology)</td>
</tr>
<tr>
<td></td>
<td>Can You Bear the Dentist? How Often Mercer Students Visit the Dentist</td>
<td>Tiana Phoenix*</td>
<td>Fletcher Winston</td>
<td>Social Sciences (Sociology)</td>
</tr>
</tbody>
</table>

*RETURN TO SESSION SCHEDULE*
Symposium: Sociology and Criminal Justice Research
Moderator: Fletcher Winston
* Each session has 4, 15-minute talks

GSC 232 11:00 – noon

Nicotine Reform or Youth Epidemic?: Factors That Influence Mercer Students’ Use of E-Cigarettes.
Joshua Farmer *; Daniel Lentz
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

Trick or Treat
Katie Martin*; Carolina Cannon
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

Address the Stress: Factors that Influence Stress Among College Students
Simone Coleman*; Zephy Sims-Brignoni
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

Free Money?: Analyzing College Student Perspectives of Universal Basic Income
Corresponding Student Coauthor: Lars McColl*
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences
Symposium: Sociology and Criminal Justice Research

Moderator: Fletcher Winston

* Each session has 4, 15-minute talks

GSC 232 1:00-2:00

It Doesn't Matter if You're Black or White: Factors that Influence Interracial Dating
Camille Edwards*; Tyler Ward
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

Stand Your Ground
Olivia Nation*; Winston Gammon
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

Reparations in Modern Day
Audean Gilpin*
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

Running from War with Iran: Factors that Influence Student Support for Going to War
Madison Mermelstein*
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

GSC 232 2:00-3:00

If You Do the Crime, You Do the Time: Student Attitudes Towards the True Purpose of Incarceration
Taylor Farnsworth*
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

Volunteer or Voluntold?: Factors that Influence Students to Volunteer
Emily Branzell*
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences (Sociology)

Mental Illness: An Advancing Issue amongst College Students
Gregory Render*, Ehlam Frank
Faculty Coauthor(s)/Mentor(s): Fletcher Winston
Research Area: Social Sciences
Symposium: Faculty-Selected Senior Design Projects in Engineering
Moderator: Joanna Thomas

WSC 104  11:00 – 12:00

4" Hydro Turbine Runner Assembly
Chanah Bremar*; Emily Davis; Mary Kathryn Savage
Faculty Coauthor(s)/Mentor(s): Stephen Hill; Loren Sumner
Research Area: Engineering and Materials Sciences

Design of a Portable Incubator for Water Coliform Testing
Amanda Cimino*; Deryl Hart Warner; Elise Young
Faculty Coauthor(s)/Mentor(s): Joanna Thomas; Edward O’Brien; Laura Lackey; Ruiyun Fu
Research Area: Engineering and Materials Sciences

Seismic Water Depth Meter
Gabrielle Sims*; Ariel Dornisch; Timothy Hood
Faculty Coauthor(s)/Mentor(s): Michael MacCarthy; Kevin Barnett; Anthony Choi
Research Area: Engineering and Materials Science
**General Papers in Engineering and Materials Science**

**WSC 104**

9:00 – 10:00

**Moderator: Joanna Thomas**

**Design and Evaluation of 3D Printed Biliary Stents for Endoscopic Deployment**  
*Claire Flippin*; Rebecca Lawson  
Faculty Coauthor(s)/Mentor(s): Joanna Thomas  
Research Area: Engineering and Materials Sciences (Biomedical Engineering)

**3D Printed Extra Hepatic Bile Duct Model for In Vitro Biliary Stent Testing System**  
*Leia Troop*; Nicholas Faist; Michael Bowman Olay  
Faculty Coauthor(s)/Mentor(s): Joanna Thomas  
Research Area: Engineering and Materials Sciences (Biomedical Engineering)

**Reducing Barriers to Mobility in the United States and the Dominican Republic**  
*McPherson Newell*  
Faculty Coauthor(s)/Mentor(s): Michael MacCarthy  
Research Area: Engineering and Materials Sciences (Biomedical Engineering)

10:00 – 11:00

**WSC 104**

**Moderator: Joanna Thomas**

**Water Quality Analysis of Mountain Springs and Capture Systems in the Dominican Republic**  
*Sara Binet*  
Faculty Coauthor(s)/Mentor(s): Michael MacCarthy; Monica Resto-Fernandez  
Research Area: Engineering and Materials Sciences (Environmental Engineering)

**Pines Library User Experience Evaluation**  
*Danielle Levy*; Charlotte Dungan; Kim Wallace; Jamie Rutledge  
Faculty Coauthor(s)/Mentor(s): Pam Brewer  
Research Area: Engineering and Materials Sciences (Technical Communication)

**Does Route Familiarity Influence Roadway Safety?**  
*Jordan McCommon*  
Faculty Coauthor(s)/Mentor(s): Emmanuel Kidando  
Research Area: Engineering and Materials Sciences (Civil Engineering)

[RETURN TO SESSION SCHEDULE]
Enhancing Durability of 3D printed Structures by Dual Extrusion Printing
Roy Wood*; Dylan Kennedy
Faculty Coauthor(s)/Mentor(s): Arash Afshar; Dorina Mihut
Research Area: Engineering and Materials Sciences (Mechanical Engineering)

Effects of environmental exposures on metallic coated carbon fiber epoxy composites
Roy Wood*; Dylan Kennedy
Faculty Coauthor(s)/Mentor(s): Arash Afshar; Dorina Mihut; Alireza Sarvestani
Research Area: Engineering and Materials Sciences (Materials Science and Engineering)

Effect of 3D Printing Parameters on Particle Filled Thermoplastic Structures
Dylan Kennedy*; Roy Wood
Faculty Coauthor(s)/Mentor(s): Arash Afshar; Dorina Mihut
Research Area: Engineering and Materials Sciences (Mechanical Engineering)

Enhancing Epoxy Mechanical Properties by glass beads and alumina nanoparticles additions
Gregory Baker*; Nicholas Cordista; Connor Reed; Pierce Smith
Faculty Coauthor(s)/Mentor(s): Dorina Mihut; Arash Afshar; Alireza Sarvestani
Research Area: Engineering and Materials Sciences (Materials Science and Engineering)

Mechanical Evaluations of 3 D Printed Polymers - a New Lab Design
Dylan Kennedy*
Faculty Coauthor(s)/Mentor(s): Dorina Mihut; Arash Afshar
Research Area: Engineering and Materials Sciences (Materials Science and Engineering)

Study on improving abrasion resistance, flexural strength and electrical properties of 3 D printed polymers
Nicholas Cordista*; Gregory Baker; Connor Reed; Pierce Smith
Faculty Coauthor(s)/Mentor(s): Dorina Mihut; Arash Afshar
Research Area: Engineering and Materials Sciences (Materials Science and Engineer)
### General Papers in Engineering and Materials Science

**GSC 210**

**Moderator: Arash Afshar**

#### Data-driven Sliding Control for Pulses of Fluorescence in STED Microscopy

*Maison Clouatre*

Faculty Coauthor(s)/Mentor(s): Makhin Thitsa  
Research Area: Engineering and Materials Sciences (Electrical Engineering)

#### Hysteresis and Shape-Memory Properties of Thermoplastic Polyurethane at Finite Deformations

*Ryan Field*; Darren Pickren; Zachary Kubas; Safi Rahman  
Faculty Coauthor(s)/Mentor(s): Alireza Sarvestani; Dorina Mihut; Arash Afshar  
Research Area: Engineering and Materials Sciences (Materials Science and Engineering)

#### Characterization of E-Cigarette Aerosol Deposition in the Human Lung Airways

*Sarah Spalding*; Gunhee Lee; Skylar Christianson  
Faculty Coauthor(s)/Mentor(s): Sinjae Hyun  
Research Area: Engineering and Materials Sciences (Biomedical Engineering)

**GSC 210**

**Moderator: Arash Afshar**

#### Applications of Deep Neural Networks for Improving the Precision of Low-Budget GPS

*Roy Andrew Wood*

Faculty Coauthor(s)/Mentor(s): Anthony Choi  
Research Area: Mathematics, Computer Science, and Computational Science

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**RETURN TO SESSION SCHEDULE**
Arts, Humanities, and Languages: Film and Theater

WSC 103 11:00-11:40

Moderator: Scot Mann

Movie Minstrelsy
Casey Allen*
Faculty Coauthor(s)/Mentor(s): Andrew Silver
Research Area: Arts, Humanities, and Languages (Other)

A Mercer Theatre Guide to Professional Acting
CeVonn Williams*
Faculty Coauthor(s)/Mentor(s): Scot Mann; Francesca Rollins
Research Area: Arts, Humanities, and Languages (Theater)
General Papers in the Natural, Physical, and Biomedical Sciences

GSC 103 9:00 – 10:00

Moderator: Craig Byron
Applications of Convolutional Deep Neural Networks for Cosmic-Ray Shower Reconstruction
Roy Andrew Wood*
Faculty Coauthor(s)/Mentor(s): Frank McNally
Research Area: Physical, Natural, and Biomedical Sciences (Physics)

Validation of a yeast knockout library screen through media construction and bioinformatic analysis
Gunnar Rogers*; Joe Graham; Sean Simmons
Faculty Mentor: Amy Wiles
Research Area: Physical, Natural, and Biomedical Sciences (Biology)

Basement-membrane degrading metalloproteinases in atherosclerotic lesions of peripheral arterial disease
Regina Liu*
Faculty Mentor: Zhongbiao Wang
Research Area: Physical, Natural, and Biomedical Sciences (Biomedical Science)

GSC 103 10:00 – 11:00

Moderator: Joseph Keene
Analysis of lanthipeptides produced by Salinispora
Shailey Shah*; Caroline Kittrell; Dylan Scott; Matthew Halbert; Madeline Smith
Faculty Mentor: Emilianne Limbrick; Garland Crawford
Research Area: Physical, Natural, and Biomedical Sciences (Biochemistry and Molecular Biology)

Hg® Pollution from Gold Shops in Guyana: Science and Technical Training
Samantha Brown*
Faculty Mentor: Adam M. Kiefer
Research Area: Physical, Natural, and Biomedical Sciences (Chemistry)

Detecting Endocrine Disrupting Chemicals: Development of a Differential Sensing Array for Use in Aqueous Media
Travis Meeks*
Faculty Mentor: Margaret Meadows
Research Area: Physical, Natural, and Biomedical Sciences (Chemistry)

RETURN TO SESSION SCHEDULE
General Papers in the Natural, Physical, and Biomedical Sciences

GSC 103 11:00 – 11:40

Moderator: Joseph Keene
Affordable Determination of the Elemental Composition of Colloidal Quantum Dots with Portable X-Ray Fluorescence Spectroscopy
Joseph Land*
Faculty Mentor: Joseph Keene
Research Area: Physical, Natural, and Biomedical Sciences (Chemistry)

Efficacy of c-fos inhibition in patch compartment upon habitual methamphetamine self-administration
Bhuvaneshwari Muchandi*
Faculty Mentor: Kristen Horner; Troy Kendrick
Research Area: Physical, Natural, and Biomedical Sciences (Neuroscience and Psychology)

GSC 103 1:00 – 2:00

Moderator: Jeff Denny
Biofilm Inhibition Through Novel Lead Compound Synthesis
Parneeta Mohapatra*; Sarika Mahajan; Ashton Taylor
Faculty Mentor: Linda Hensel; David Goode; Jeff Denny
Research Area: Physical, Natural, and Biomedical Sciences (Biology)

Biofilm Inhibition & Drug Synthesis
Ehizogie Okojie*; Noah De Mers; Nina Rasheed
Faculty Mentor: Linda Hensel; David Goode; Jeff Denny
Research Area: Physical, Natural, and Biomedical Sciences (Biology)

On the Hunt for “BOMM” Biofilm Inhibitors
Natalie Yaeger*
Faculty Mentor: Linda Hensel; David Goode; Jeff Denny
Research Area: Physical, Natural, and Biomedical Sciences (Biology)

RETURN TO SESSION SCHEDULE
General Papers in the Natural, Physical, and Biomedical Sciences

GSC 103

2:00 – 2:40

Moderator: David Goode

Novel Compounds in Biofilm Production
Lauri Weinkauf*; Emily Belle; Alexander Mutsanago
Faculty Coauthor(s)/Mentor(s): Linda Hensel; David Goode
Research Area: Physical, Natural, and Biomedical Sciences (Biology)

Combating Antibiotic Resistance with Biofilm Inhibiting Drugs
Spencer Laue*; Sonny Patel; Brenton Puckett
Faculty Mentor: Linda Hensel; David Goode
Research Area: Physical, Natural, and Biomedical Sciences (Biology)

RETURN TO SESSION SCHEDULE
**General Papers in Social Science**

**GSC 450 9:00 – 10:00**

**Moderator: Shan Ran**

Growing Up Asian: Wrath of the Tiger Mother  
*Alexander Stump*
  Faculty Author(s)/Mentor(s): *Pamela Stanescu*  
  Research Area: Social Sciences (Sociology)

LGBTQIA+ Political Participation at Mercer University  
*Emily Sapp*; *Margret Hicks*  
  Faculty Author(s)/Mentor(s): *Natalie Bourdon*  
  Research Area: Social Sciences (Sociology)

Religion and Cultural Connection to Country of Origin in Children of Immigrants  
*Margaret Hicks*  
  Faculty Author(s)/Mentor(s): *Amy Nichols-Belo*  
  Research Area: Social Sciences (Other)

**GSC 450 10:00 – 11:00**

**Moderator: Derek Glasgow**

Slavery to Reconstruction: An Analysis of Georgia's Standards of Excellence  
*Elizabeth Tadlock*; *Emily Harvey*; *Carley Wilson*; *Reagan Tillery*  
  Faculty Author(s)/Mentor(s): *Laura Simon*  
  Research Area: Social Sciences (Sociology)

Veganism and Sustainability  
*Nishi Patel*  
  Faculty Author(s)/Mentor(s): *Eimad Houry*  
  Research Area: Social Sciences (Global Health)

Women's Rights: Do Female Leaders Hurt, or Help?  
*Lindsey Smallwood*  
  Faculty Author(s)/Mentor(s): *Eimad Houry*  
  Research Area: Social Sciences (Women's and Gender Studies)

**RETURN TO SESSION SCHEDULE**
Searching For Suffrage: Helen Shaw Harrold's Georgia Fight
Addison Mecredy*
Faculty Author(s)/Mentor(s): Matthew Harper
Research Area: Social Sciences (Women's and Gender Studies)

Cross-Cultural Influence on Breastfeeding Behaviors
Elizabeth Ctibor*
Faculty Author(s)/Mentor(s): Tanya Sharon
Research Area: Social Sciences (Psychology)


**Symposium: Senior Thesis in Philosophy**  
*Moderator: Creighton Rosental*

* Each session has 2, 30-minute talks

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**GSC 450**  
1:00 – 2:00

The Moral Obligations the United States Owes to Venezuelan Refugees: Border Arguments Applied to Refugees  
**Nieves Melendez Ristuccia***  
Faculty Coauthor(s)/Mentor(s): Rosalind Simson  
Research Area: Humanities (Philosophy)

Examing the Lens in Stanley Kubrick's Full Metal Jacket  
**Kedric Ross***  
Faculty Coauthor(s)/Mentor(s): Marc Jolley; Creighton Rosental  
Research Area: Humanities (Philosophy)

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**GSC 450**  
2:00 – 3:00

Reconciling Subject and Object: An Examination of Perceptual Philosophy  
**Holly Cooper***  
Faculty Coauthor(s)/Mentor(s): Rosalind Simson; Creighton Rosental  
Research Area: Humanities (Philosophy)

Objectivism Reframed: Priority of Self-Care  
**Samantha Creswell***  
Faculty Coauthor(s)/Mentor(s): Charlotte Thomas  
Research Area: Humanities (Philosophy)

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RETURN TO SESSION SCHEDULE
Falling in love with Love: The Tale of Cupid and Psyche in Apuleius and C. S. Lewis
Raejan Noh*
Faculty Coauthor(s)/Mentor(s): Achim Kopp
Research Area: Arts, Humanities, and Languages (Classical & Modern Languages)

Problems in Cross-Cultural Environmental Communication: What is an Eco-City? Case Studies in the Asia Pacific Region
Nidhi Shashidhara*
Faculty Coauthor(s)/Mentor(s): J. Fernando Palacios
Research Area: Arts, Humanities, and Languages (Classical & Modern Languages)
Moderator: Virginia Young

Gender Disparity in Education in Sub-Saharan Africa: An Economic Disadvantage?
Eliza Miller*
Faculty Coauthor(s)/Mentor(s): J. Fernando Palacios
Research Area: Arts, Humanities, and Languages (Women’s and Gender Studies)

Rape Culture in Fraternity and Sorority Programming*
Cam Wade*
Faculty Coauthor(s)/Mentor(s): Natalie Bourdon
Research Area: Arts, Humanities, and Languages (Women's and Gender Studies)
General Papers in Business

WSC 305  9:00 – 10:00

**Moderator: Geoffrey Ngene**

*An Analysis of the Explanatory Power of Betting Data on NFL Viewership Levels*
Kalp Patel*
Faculty Coauthor(s)/Mentor(s): Allen Lynch
Research Area: Business (Economics)

*Time-Varying Connectedness Between Financial and Real Sectors*
Sachin Khurana*
Faculty Coauthor(s)/Mentor(s): Geoffrey Ngene
Research Area: Business (Finance)

*Too much sugar? Rethinking Coca-Cola*
William Kerdasha*; Nicholas Smith; Thomas Eads; Om Mehta
Faculty Coauthor(s)/Mentor(s): Geoffrey Ngene; John Gordon
Research Area: Business (Finance)

WSC 305  10:00 – 11:00

**Moderator: Gregory McAmis**

*The Impact of FinTech Adoption on Bank Stock Returns: The Case of Canada*
Ryan Thompson*; William Kerdasha
Faculty Coauthor(s)/Mentor(s): Kenneth Tah
Research Area: Business (Finance)

*The Check Clearing for the 21st Century Act and Bank Stock Returns*
James Griggers*; Lee Greenberger
Faculty Coauthor(s)/Mentor(s): Kenneth Tah
Research Area: Business (Finance)

*Announcements of Bank Loans and Cannabis Stock Returns*
Autumn R. Johnson*; Madison S. Johnson
Faculty Coauthor(s)/Mentor(s): Kenneth A. Tah
Research Area: Business (Finance)

RETURN TO SESSION SCHEDULE
**General Papers in Business**

**WSC 305**

11:00 – noon

**Moderator: Gregory McAmis**

Financial Services Holding Companies Concentration in Diversification  
Anna Valeria Rodas*
Faculty Coauthor(s)/Mentor(s): Kenneth Tah  
Research Area: Business (Risk Management and Insurance)

Integration of African Stock Markets at Different Performance Cycles  
Ben Brubaker*  
Faculty Coauthor(s)/Mentor(s): Geoffrey Ngene  
Research Area: Business (Finance)

Gender Equality and Capitalist Beliefs  
Gopiben Patel*  
Faculty Coauthor(s)/Mentor(s): Andrés Marroquín  
Research Area: Business

**WSC 305**

1:00 – 1:40

**Moderator: Clara Mengolini**

Self-centered or altruistic: Influencers motivations behind brand support.  
Marissa James*; Keyshonda Stafford  
Faculty Coauthor(s)/Mentor(s): Ania Rynarzewska  
Research Area: Business (Marketing)

New Media in the Premier Lacrosse League  
Jean-Luc Brown*; Nick Thompson; Ava Johnson  
Faculty Coauthor(s)/Mentor(s): Ania Rynarzewska  
Research Area: Business (Sports Marketing and Analytics)

**RETURN TO SESSION SCHEDULE**
Symposium: Public Policy Analysis and Recommendations*

Moderator: Lori Johnson

* Each session has 6, 10-minute talks

GSC 210 9:00 – 10:00

Punishing Pregnancy: Georgia’s Maternal Mortality Crisis
Sarah Moore*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Children: Orphans of Justice in the Commonwealth
Zahria Evans*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Gerrymandering: An Assault on Democracy
Drew Williams*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Dirty Water and Even Dirtier Politics: The Flint Water Crisis
Mecca Aikens*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Legalization in Georgia: turn over a new leaf
Julian Hahn*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Student Debt: The Barrier to Great Minds
Dolapo Ayofemi*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

RETURN TO SESSION SCHEDULE
Symposium: Public Policy Analysis and Recommendations

Moderator: Lori Johnson
* Each session has 6, 10-minute talks

GSC 210 10:00 – 11:00

Hunted, Caged, Sold: Georgia A Human Trafficking Hub
Solomon Alexander Simpson*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

2020 Vision? See Color to See the Problem: Racially Segregated Schools in Macon-Bibb County
Janai Baxter*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

A Dog-gone Dangerous Sport: An Analysis of Greyhound Racing in West Virginia
Lindsey Smallwood*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Proposed North Carolina Voter Identification Law Creating Unrest for Civil Rights Activists
Alexander Stock*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Brighter Futures: Education Reform in the South
Emma Smith*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Teacher Pay: It is Time to get EDUCATED on the issue
Nini Ugha*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

RETURN TO SESSION SCHEDULE
Symposium: Public Policy Analysis and Recommendations*

Moderator: Lori Johnson

* Each session has 6, 10-minute talks

GSC 210
11:00 – noon

Teaching Teachers How to Read Backwards Dyslexia: A Growing Issue in the United States
Grace Bowman*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Voter Suppression: The Modern Black Codes of Georgia
Elijah Moore*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

The Dicey Issue of Sports Gambling: A Good Bet for Florida?
Fuad Batteh*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Hacked: Why Paperless Machine Voting in Georgia is a Lost Cause
Valentina Ceron Andraus*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Double Down: Legalizing Gambling in Georgia?
Troy Davis*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Beyond Scared Straight: Public Analysis of the Juvenile Justice System
JaLisa Peterson*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

RETURN TO SESSION SCHEDULE
Symposium: Public Policy Analysis and Recommendations*

Moderator: Lori Johnson
* Each session has 6, 10-minute talks

GSC 210 1:00 – 1:30

Macon It Around Town: Vehicle-centric Infrastructure
Taylor Cole*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

Over Prescribed? Rural Louisiana's Opioid Crisis
Camille Peno*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

The Education Crisis: How Opportunities are Limited to Students of Color
Ja'Diyah Shamsiddin*
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Law and Public Policy

RETURN TO SESSION SCHEDULE
Moderator: Anita Gustafson

Expanding Slave Narratives at Jarrell Plantation State Historic Site
Emily Robertson*
Faculty Coauthor(s)/Mentor(s): Matt Harper
Research Area: Arts, Humanities, and Languages (History)

Black Methodism and the Split of the Methodist Episcopal Church in 1844
Caroline Smith*
Faculty Coauthor(s)/Mentor(s): Matthew Harper
Research Area: Arts, Humanities, and Languages (History)

Dancing into Whiteness: A Look at José Limón’s Performance in Atlanta in 1953 and Cold War America
Adri Rosario*
Faculty Coauthor(s)/Mentor(s): Matthew Harper
Research Area: Arts, Humanities, and Languages (History)

Moderator: Robert Good

The Fight for the 1960 Georgian Political Narrative: How a State Campaign Won a Catholic President
Trey Dennard*
Faculty Coauthor(s)/Mentor(s): Matthew Harper
Research Area: Arts, Humanities, and Languages (History)

The "Glorious" February Revolution
Rachel Wright*
Faculty Coauthor(s)/Mentor(s): Matthew Harper; Wallace Daniel
Research Area: Arts, Humanities, and Languages (History)

Pattons and the Times in Bavaria
Jackson Crean*
Faculty Coauthor(s)/Mentor(s): Matthew Harper
Research Area: Arts, Humanities, and Languages (History)

RETURN TO SESSION SCHEDULE
**Arts, Humanities, and Languages: History**

**GSC 220**

11:00-noon

**Moderator: Abigail Dowling**

The United States at the Fort Smith Conference: Ignoring Cherokee Loyalty to Justify Punishment after the Civil War

*Allison Stevens*

Faculty Coauthor(s)/Mentor(s): Matthew Harper; Abigail Dowling

Research Area: Arts, Humanities, and Languages (History)

The Fight on the Home Front: Conscientious Objectors in World War I

*Sara Carr*

Faculty Coauthor(s)/Mentor(s): Matthew Harper

Research Area: Arts, Humanities, and Languages (History)

For You Are All One in Jesus Christ? White Georgia Baptists Views on the Civil Rights Movement and Martin Luther King Jr

*Bridget Silvert*

Faculty Coauthor(s)/Mentor(s): Matthew Harper; Douglas Thompson

Research Area: Arts, Humanities, and Languages (History)

**GSC 220**

1:00-2:00

**Moderator: Matthew Harper**

A Murder Case to Show the Natives Their Place

*Skylar Ferguson*

Faculty Coauthor(s)/Mentor(s): Matthew Harper; Abigail Dowling

Research Area: Arts, Humanities, and Languages (History)

American Secularism and the Kulturkampf

*William Forrest Flammer*

Faculty Coauthor(s)/Mentor(s): Abigail Dowling; Matthew Harper

Research Area: Arts, Humanities, and Languages (History)

Fundamentalism and the Fight for Academic Freedom: The Dismissal of Dr. Henry Fox from Mercer University in 1924

*Ashley Stephens*

Faculty Coauthor(s)/Mentor(s): Matthew Harper

Research Area: Arts, Humanities, and Languages (History)

**RETURN TO SESSION SCHEDULE**
Arts, Humanities, and Languages: History

GSC 220 2:00-2:20

Moderator: Matthew Harper

Of Hope & Fear: British Propaganda in 1803

Braedon McKay Kelly*

Faculty Coauthor(s)/Mentor(s): Matthew Harper

Research Area: Arts, Humanities, and Languages (History)

RETURN TO SESSION SCHEDULE
Symposium: 2020 Presidential Primaries, the Media, and Communication

Moderators for all talks: Jay Black, Kevin Cummings, and Chris Grant

WSC 155

9:00 – 10:00

How the Impeachment Trial Shaped the 2020 Campaign Trail
Reilly Moncrief*; Madison Moore; Ja'Diyah Shamsiddin; Faith Montgomery
Faculty Coauthor(s)/Mentor(s): Jay Black; Kevin Cummings; Chris Grant
Research Area: Social Sciences (Political Science)

Horse Races and Media Coverage
Sheridan King*; Anisah Muhammad; Sylvia Colquitt
Faculty Coauthor(s)/Mentor(s): Jay Black; Kevin Cummings; Chris Grant
Research Area: Social Sciences (Political Science)

New Media Strategies for 2020 Primaries
Joshua Harrison*; Jake McCarthy; Chance Allen; Lars Lonnroth
Faculty Coauthor(s)/Mentor(s): Jay Black; Kevin Cummings; Chris Grant
Research Area: Social Sciences (Political Science)

WSC 155

10:00 – 11:00

Momentum Models and Firewalls- do they still exist?
Davis Varner*; Adam Penland; Spencer Decuir
Faculty Coauthor(s)/Mentor(s): Jay Black; Kevin Cummings; Chris Grant
Research Area: Social Sciences (Political Science)

Billionaires: How Perceived Wealth Influences Voters in the 2020 Presidential Election
Mary Helene Hall*; Emma Kraft; Lisbeth Villegas
Faculty Coauthor(s)/Mentor(s): Jay Black; Kevin Cummings; Chris Grant
Research Area: Social Sciences (Political Science)

A Women’s Place is the (White) House
Miranda Jackson*; Hinal Patel; Camryn Bierria
Faculty Author(s)/Mentor(s): Jay Black; Kevin Cummings; Chris Grant
Research Area: Social Sciences (Political Science)

RETURN TO SESSION SCHEDULE
Symposium: 2020 Presidential Primaries, the Media, and Communication

Moderators for all talks: Jay Black, Kevin Cummings, and Chris Grant

My Word as a Biden - Uncle Joe and 2020
Emily Harvey*; Elizabeth Tadlock; Anniston Nooks
Faculty Author(s)/Mentor(s): Jay Black; Kevin Cummings; Chris Grant
Research Area: Social Sciences (Political Science)

The Mayor with Momentum
Harrison Ivins*; Kylie Brown; Caid Richardson
Faculty Author(s)/Mentor(s): Jay Black; Kevin Cummings; Chris Grant
Research Area: Social Sciences (Political Science)
Symposium on Integrating Service and Scholarship: Mercer Service Scholar Senior Projects

Moderators for all talks: Amy Nichols-Belo

WSC 155 1:00 – 2:00

Measuring the Effect of Supplementary English Instruction on Renaissance STAR Test Scores for Springdale Elementary English Language Learners
Jessica Lewis*; Tucker Buffington
Faculty Coauthor(s)/Mentor(s): Amy Nichols-Belo
Symposium: Integrating Service and Scholarship: Mercer Service Scholar Senior Project

The Effects of a College Volunteer Program on Bolingreen Health & Rehabilitation Center Residents
Anna Ingram*
Faculty Coauthor(s)/Mentor(s): Amy Nichols-Belo
Symposium: Integrating Service and Scholarship: Mercer Service Scholar Senior Projects

Cultural and Religious Sensitivity Curriculum for Short-Term Mission Groups
Caitlin Montgomery*
Faculty Coauthor(s)/Mentor(s): Lisa Vu
Symposium: Integrating Service and Scholarship: Mercer Service Scholar Senior Projects

WSC 155 2:00 – 2:40

Global Health In Action Teen: An Adolescent Health Literacy Improvement Program
Moriah Roycroft*
Faculty Coauthor(s)/Mentor(s): Chinekwu Obidoa
Symposium: Integrating Service and Scholarship: Mercer Service Scholar Senior Projects

Minority Mentor Community Mentoring Program: Improving Awareness of Career & Educational Opportunities Using Personalized Curriculum
Aditi Dave*
Faculty Coauthor(s)/Mentor(s): Mary Alice Morgan
Research Area: Education

RETURN TO SESSION SCHEDULE
Human and Environmental Rights

WSC 156

1:00 – 2:00

Moderator: Kristen Bailey

Harriet Tubman and the Erasure of Disability in American History
Ashley Pettway*
Faculty Coauthor(s)/Mentor(s): Dorothy Buchli
Research Area: Arts, Humanities, and Languages (Other)

Colorism, Racism, and the Role they Play in the Modern Views of Immigration
Stephany Leal*
Faculty Coauthor(s)/Mentor(s): Alana Alvarez
Research Area: Arts, Humanities, and Languages (Other)

The Progression of Vietnamese Human Rights
Brittany Tran*
Faculty Coauthor(s)/Mentor(s): Bich Nguyen; Ha Van Vo
Research Area: Arts, Humanities, and Languages (Other)

WSC 156

2:00 – 2:40

Moderator: J. Fernando Palacios

Reparations and Sephardi Jews- A new Era
Mason Thornton*
Faculty Coauthor(s)/Mentor(s): J. Fernando Palacios, Alana Alvarez
Research Area: Arts, Humanities, and Languages (Other)

Fast Fashion: Effects on the Environment and Factory Workers: The Case of Bangladesh
Emily Bartlett*
Faculty Coauthor(s)/Mentor(s): J. Fernando Palacios
Research Area: Arts, Humanities, and Languages (Global Health (Humanities))

RETURN TO SESSION SCHEDULE
**General Papers in Education**

WSC 156  
10:00 – 11:00

*Moderator: Susan Cannon*

**Writing in the Reader**  
*Katelyn Corbett*  
Faculty Coauthor(s)/Mentor(s): *Deneen Senasi; Andrew Silver*  
Research Area: Education

**Welcoming Diverse Voices: A Study of Enrollment and Retention in Mercer's Great Books Program**  
*Sarah Moore*  
Faculty Coauthor(s)/Mentor(s): *Deneen Senasi*  
Research Area: Arts, Humanities, and Languages; Education

**Evaluating and Enriching the Read2Succeed Tutoring Conducted by Mercer University Undergraduates Within Local Elementary Schools**  
*Grace Maloney*; *Katelyn West*  
Faculty Coauthor(s)/Mentor(s): *Vicki Luther*  
Research Area: Education

[RETURN TO SESSION SCHEDULE]
**Arts, Humanities, and Languages: Literature**

**GSC 220**

**Moderator: Jonathan Glance**

Female Friendship and the Author/Reader Dialogue in E.D.E.N. Southworth's *The Hidden Hand*

*Maggie Martin*

Faculty Coauthor(s)/Mentor(s): *Andrew Silver*

Research Area: Arts, Humanities, and Languages (Literature)

**Demon Hunter: A Creative Writing Project**

*Cam Wade*

Faculty Coauthor(s)/Mentor(s): *Thomas Bullington*

Research Area: Arts, Humanities, and Languages (Literature)

**An Autopsy on Mortality: Death in the First World War**

*Sam Minton*

Faculty Coauthor(s)/Mentor(s): *David A. Davis*

Research Area: Arts, Humanities, and Languages (Literature)

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**GSC 220**

**Moderator: Thomas Bullington**

Salvage The Ghosts: Richie and Beloved's Journey Home

*Madeline Cole*

Faculty Coauthor(s)/Mentor(s): *David A. Davis*

Research Area: Arts, Humanities, and Languages (Southern Studies)

Designs in Faulkner’s Old South: Inheritance of Wealth through Patrilineal Society

*Natalie Yaeger*

Faculty Coauthor(s)/Mentor(s): *David A. Davis*

Research Area: Arts, Humanities, and Languages (Literature)

Emily Dickinson’s Poetry: Longing and Lesbianism

*Ivy Clarke*

Faculty Coauthor(s)/Mentor(s): *Andrew Silver; Jonathan Glance*

Research Area: Arts, Humanities, and Languages (Literature)

**RETURN TO SESSION SCHEDULE**
General Papers in Journalism and Communication Studies

WSC 156
9:00 – 9:40

Moderator: Darlene Flaming

The Legacy of Jesse Mercer: His Influence on Journalism and Education as Components of Religious Journalism
Madilyn Harrell*
Faculty Coauthor(s)/Mentor(s): Bryan Whitfield; Darlene Flaming; Evey Wilson; Richard Wilson
Research Area: Arts, Humanities, and Languages (Journalism)

From the Pay Gap to the Thigh Gap: The Media’s Distortion of Girls’ and Women's' Body Image
Mandi DeLong*
Faculty Coauthor(s)/Mentor(s): Jonathan Glance; Vasile Stanescu
Research Area: Arts, Humanities, and Languages; Communication Studies

RETURN TO SESSION SCHEDULE
Public Health and Health Studies

GSC 220 1:00 – 2:00

Moderator: Alana Alvarez

Why water? The global water crisis and its effects on developing countries.
India Ellison*
Faculty Coauthor(s)/Mentor(s): J. Fernando Palacios
Research Area: Public Health and Health Studies

The Silent Killer: Pollution in China
Tyler Tran*
Faculty Coauthor(s)/Mentor(s): J. Fernando Palacios
Research Area: Public Health and Health Studies

Comparing American Racial Health Disparity Interventions to South Africa
Brianna Levin*
Faculty Coauthor(s)/Mentor(s): Chinekwu Obidoa
Research Area: Public Health and Health Studies

GSC 220 2:00 – 3:00

Moderator: Alana Alvarez

Effects of Centering Pregnancy on Pregnancy Outcomes at Navicent Health
Mehak Zainab*; Adrianne Smith
Faculty Coauthor(s)/Mentor(s): Patrice Walker; Rose Crespo; Brad Lian
Research Area: Public Health and Health Studies

Linkages of the Epstein-Barr Virus in Developing Nations
Peter Garcia *
Faculty Coauthor(s)/Mentor(s): Gretchen Bentz
Research Area: Public Health and Health Studies

RETURN TO SESSION SCHEDULE
GENERAL POSTER PRESENTATIONS
Intramural Courts, University Center
Thursday March 26, 2020
Odd Posters: 4:00-5:00 PM
Even Posters: 5:00-6:00 PM

P1: I Will Not Be Obliterated: A Study in Poetry over Under-Recognized Global Women Artists
Corresponding Student Author: Ivy Clarke
Faculty Coauthor(s)/Mentor(s): Erin McClanathan
Research Area: Arts, Humanities, and Languages
University Programs: Course-based Undergraduate Research (CURE); Course Assignment

P2: 50 Shades of Race: An Analysis of Creole Literature in Antebellum New Orleans
Corresponding Student Author: Isabella LeBlanc
Faculty Coauthor(s)/Mentor(s): Matthew Harper
Research Area: Arts, Humanities, and Languages
University Programs: Course-based Undergraduate Research (CURE); Course Assignment

P3: Through the Looking Glass: Translating Student Writing Practices from Academic to Creative Contexts
Corresponding Student Author: Noah Mutfwang
Faculty Coauthor(s)/Mentor(s): Deneen Senasi
Research Area: Arts, Humanities, and Languages

P4: Beliefs About Robots and Labor Status in Latin America: Evidence from Latinobarómetro, 2018
Corresponding Student Author: Sahan Vangala
Student Coauthor(s): Natalie Coolidge
Faculty Coauthor(s)/Mentor(s): Andrés Marroquín
Research Area: Business
University Programs: Faculty-led Research Project

P5: The Diamonds in the Dialogue: The Dynamic Influence of Language on Investor Decisions
Corresponding Student Author: Jordan Lipp
Faculty Coauthor(s)/Mentor(s): Juanita Forrester
Research Area: Business
University Programs: Course-based Undergraduate Research (CURE); Honors Research

P6: The Effect of Desire for Revenge and Negative Reciprocity on Customer-Directed CWB
Corresponding Student Author: Lilah Donnelly
Faculty Coauthor(s)/Mentor(s): Agnieszka Shepard
Research Area: Business
P7: How can brands create the perception of luxury on social media
Corresponding Student Author: Shasheen Kher
Faculty Coauthor(s)/Mentor(s): Ania Rynarzewksa
Research Area: Business
University Programs: Faculty-led Research Project

P8: Using Physical Movements to Improve First-Grade Students: Sound-Letter Recognition for Short Vowels
Corresponding Student Author: Jessica Lewis
Faculty Coauthor(s)/Mentor(s): Vicki Luther
Research Area: Education
University Programs: Course Assignment

P9: Break Down the Main Idea- Studying the Effectiveness of Using Graphic Organizers for Increasing Reading Comprehension in Fourth Grade RTI Students
Corresponding Student Author: Grace Maloney
Faculty Coauthor(s)/Mentor(s): Vicki Luther
Research Area: Education
University Programs: Course Assignment

P10: What is the Point of Lab?! Preliminary Data on Making Lecture-lab Connections
Corresponding Student Author: Laurel Eve Genova
Faculty Coauthor(s)/Mentor(s): Kathryn Kloepper; Garland Crawford; Vicki Luther;
Research Area: Education
University Programs: Faculty-led Research Project

P11: It's time to think about thinking: A study on the Reciprocal Teaching method and the effects it has on reading comprehension levels in Second and Fifth Grade students
Corresponding Student Author: Kate Buckland
Student Coauthor(s): Jaycie Rollins
Faculty Coauthor(s)/Mentor(s): Vicki Luther
Research Area: Education
University Programs: Course Assignment

P12: Characterization of E-Cigarette Aerosol Deposition in the Human Lung Airways
Corresponding Student Author: Sarah Spalding
Student Coauthor(s): Skylar Christianson; Gunhee Lee
Faculty Coauthor(s)/Mentor(s): Sinjae Hyun
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project
P13: Evaluating the Usability of the Georgia PINES Library Catalog
Corresponding Student Author: Cathy Hu
Student Coauthor(s): Juliana Hawkinson; Adam Davenport
Faculty Coauthor(s)/Mentor(s): Pam Brewer
Research Area: Engineering and Materials Sciences
University Programs: Course Assignment

P14: Image Processing of Melanoma Skin Cancer
Corresponding Student Author: Jessica Smith
Faculty Coauthor(s)/Mentor(s): Vahid Vahidi
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project; Course-based Undergraduate Research (CURE); Course Assignment

P15: Harvesting Vehicular Kinetic Energy Using Piezoelectric Sensors
Corresponding Student Author: Jennifer Andrews
Student Coauthor(s): Caitlyn Patton; Holly Wells
Faculty Coauthor(s)/Mentor(s): Alireza Sarvestani; Ruiyun Fu; Stephen Hill; Arash Afshar
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project

P16: Optimization of Molybdenum Disulfide Dispersion into Epoxy Matrix
Corresponding Student Author: Markell Jackson
Faculty Coauthor(s)/Mentor(s): Alireza Sarvestani
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project

P17: Hysteresis and Shape-Memory Properties of Thermoplastic Polyurethane at Finite Deformations
Corresponding Student Author: Ryan Field
Student Coauthor(s): Darren Pickren; Zachary Kubas; Safi Rahman
Faculty Coauthor(s)/Mentor(s): Alireza Sarvestani; Dorina Mihut; Arash Afshar;
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project

P18: Stress Analysis of a Feed Water Piping System
Corresponding Student Author: Landon Cameron
Faculty Coauthor(s)/Mentor(s): Kleio Avrithi
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project
GENERAL POSTER PRESENTATIONS

**P19: Car Detection With Deep Learning**
Corresponding Student Author: Nolan Donley
Faculty Coauthor(s)/Mentor(s): Vahid Vahidi
Research Area: Engineering and Materials Sciences
University Programs: Course-based Undergraduate Research (CURE)

**P20: Resilience of Infrastructure**
Corresponding Student Author: Arielle Bellew
Faculty Coauthor(s)/Mentor(s): Kleio Avrithi
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project; Honors Research

**P21: Electromagnetic Radiation for Extraction of High Viscosity Hydrocarbons from Porous Media**
Corresponding Student Author: Darren Pickren
Student Coauthor(s): Ryan Field; Jonathan Oh
Faculty Coauthor(s)/Mentor(s): Alireza Sarvestani; Robert Gill; Michael MacCarthy
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project; Course-based Undergraduate Research (CURE)

**P22: Does Route Familiarity Influence Roadway Safety?**
Corresponding Student Author: Jordan McCommon
Faculty Coauthor(s)/Mentor(s): Emmanuel Kidando
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project

**P23: Antibacterial Performance of Copper Coated Filter Papers and Low DC Electrical Currents Applied to Metallic Coated Structures**
Corresponding Student Author: Gregory Baker
Student Coauthor(s): Darren Pickren
Faculty Coauthor(s)/Mentor(s): Dorina Mihut; Arash Afshar; Stephen Hill;
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project

**P24: Enhancing Epoxy Mechanical Properties by glass beads and alumina nanoparticles additions**
Corresponding Student Author: Gregory Baker
Student Coauthor(s): Nicholas Cordista; Connor Reed; Mith Pierce
Faculty Coauthor(s)/Mentor(s): Dorina Mihut; Arash Afshar; Alireza Sarvestani
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project
P25: Developing an Autonomous Rover System Supporting Simultaneous Connections
Corresponding Student Author: Roy Andrew Wood
Faculty Coauthor(s)/Mentor(s): Anthony Choi
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project

P26: Mechanical Evaluation of 3D Printed Polymers - a New Lab Design
Corresponding Student Author: Dylan Kennedy
Faculty Coauthor(s)/Mentor(s): Dorina Mihut; Arash Afshar
Research Area: Engineering and Materials Sciences
University Programs: Course-based Undergraduate Research (CURE)

P27: Study on improving abrasion resistance, flexural strength and electrical properties of 3D printed polymers
Corresponding Student Author: Nicholas Cordista
Student Coauthor(s): Gregory Baker; Connor Reed; Smith Pierce
Faculty Coauthor(s)/Mentor(s): Dorina Mihut; Arash Afshar
Research Area: Engineering and Materials Sciences
University Programs: Faculty-led Research Project

P28: I-SPAMM
Corresponding Student Author: Alvaro Garcia
Faculty Coauthor(s)/Mentor(s): Eniye Tebekaemi; Martin Zhao
Research Area: Mathematics, Computer Science, and Computational Science
University Programs: Faculty-led Research Project; Honors Research; Course Assignment

P29: Using Image Processing to Detect Breast Cancer in Histology
Corresponding Student Author: Anthony Isele
Faculty Coauthor(s)/Mentor(s): Vahid Vahidi
Research Area: Mathematics, Computer Science, and Computational Science
University Programs: Course Assignment

P30: Developing an Augmented Reality Mobile Application to Enhance The Dulcimer’s User Experience
Corresponding Student Author: Roy Wood
Faculty Coauthor(s)/Mentor(s): Martin Zhao
Research Area: Mathematics, Computer Science, and Computational Science
University Programs: Faculty-led Research Project; Course Assignment

P31: Pilot Database Design for Rhesus Macaque Skeletal Collection
Corresponding Student Author: Willow Stuckey
Student Coauthor(s): Alex Donnelly; Kyle Cutchens; Jared Johnson
Faculty Coauthor(s)/Mentor(s): Martin Zhao; Yuanting Lu
Research Area: Mathematics, Computer Science, and Computational Science
University Programs: Faculty-led Research Project; Course Assignment
**GENERAL POSTER PRESENTATIONS**

**P32: The Dark Triad’s advancement in the workplace through the use of hard tactics.**
Corresponding Student Author: Rebecca Porter
Faculty Coauthor(s)/Mentor(s): Dina Schwam
Research Area: Social Sciences
University Programs: Course Assignment

**P33: Understanding the Nature of Glycyrrhizic Acid in Breast Cancer Treatment**
Corresponding Student Author: Jessica S. Hall
Student Coauthor(s): Violet Iyahen
Faculty Coauthor(s)/Mentor(s): Olga N. Uchakina; Robert J. McKallip
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

**P34: The Role of Sumoylation in the EBV Life Cycle**
Corresponding Student Author: Abigail E. Harrod
Student Coauthor(s): Falisha Hira; Shruti Jha; Shakti Biswas; Peter Garcia
Faculty Coauthor(s)/Mentor(s): Gretchen L. Bentz; Angie T. Lowrey
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

**P35: Factors that Influence an Individual’s Decision to Purchase Fast Fashion**
Corresponding Student Author: Mackenzie Pfaff
Faculty Coauthor(s)/Mentor(s): Eimad Houry
Research Area: Social Sciences
University Programs: Faculty-led Research Project; Course Assignment

**P36: Validation of a yeast deletion library screen using protein-protein interactions and metabolic pathway analysis**
Corresponding Student Author: Joseph Graham
Student Coauthor(s): Sean Simmons; Gunnar Rogers; David Cobb
Faculty Coauthor(s)/Mentor(s): Amy Wiles
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

**P37: Evaluation of the activity of synthetic psychostimulant cathinones at human muscarinic receptors**
Corresponding Student Author: Rachel Lukavsky
Student Coauthor(s): Yiming Chen
Faculty Coauthor(s)/Mentor(s): Clinton E. Canal
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project; Internship
GENERAL POSTER PRESENTATIONS

P38: Inhibition of Lymphangiogenesis Exacerbates Cisplatin Nephrotoxicity
Corresponding Student Author: Elisa R. Farrell
Faculty Coauthor(s)/Mentor(s): Anupam Agarwal; Laurence Black
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Internship

P39: Metal Sulfide Alloy Nanoparticles: Manganese Phosphorescence to Probe Localization
Corresponding Student Author: Clarissa Nguyen
Student Coauthor(s): Carolyn Cafro; Jordan Jackson; Jaila Lewis; Mahjabin Patrawala
Faculty Coauthor(s)/Mentor(s): Dale Moore
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

P40: Mapping Hgo Concentrations in Mazuko, Peru
Corresponding Student Author: Kathryn Howe
Student Coauthor(s): Samantha Brown
Faculty Coauthor(s)/Mentor(s): Adam M. Kiefer; Jeffrey Hugdahl
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project; Mercer On Mission

P41: Targeting LMP1-induced Sumoylation Processes With ML-792
Corresponding Student Author: Shruti Jha
Student Coauthor(s): Peter Garcia; Merritt Thompson; Alex Barnsfield; Shakti Biswas; Ananya Shah; Holden Lee
Faculty Coauthor(s)/Mentor(s): Gretchen L. Bentz; Angela J. Lowrey; Abigail Harrod
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

P42: Using Chlamydomonas as a lab organism
Corresponding Student Author: Laura Roden
Student Coauthor(s): India Ellison
Faculty Coauthor(s)/Mentor(s): John Stanga
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

P43: Metal Sulfide Alloy Nanoparticles: Evaluating Composition Control and Size Consistency
Corresponding Student Author: Jaila Lewis
Student Coauthor(s): Jordan Jackson; Carolyn Cafro; Clarissa Nguyen; Mahjabin Patrawala
Faculty Coauthor(s)/Mentor(s): Dale Moore
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project
P44: Transport and toxicity of methylmercury in a placental cell line
Corresponding Student Author: Vidya Ganapathy
Student Coauthor(s): Simran Vaghela
Faculty Coauthor(s)/Mentor(s): Lucy Joshee; Olga Uchakina; Robert J. McKallip; Christy C. Bridges
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Honors Research

P45: Targeting chronic myelogenous leukemia with imatinib and glycyrrhizic acid combination therapy.
Corresponding Student Author: Adir Mohaban
Faculty Coauthor(s)/Mentor(s): Robert McKallip; Olga Uchakina
Research Area: Physical, Natural, and Biomedical Sciences

P46: Metal Sulfide Alloy Nanoparticles: Electrochemical Band Gap vs. Spectroscopic Band Gap
Corresponding Student Author: Mahjabin Patrawala
Student Coauthor(s): Carolyn Cafro; Jordan Jackson; Jaila Lewis; Clarissa Nguyen
Faculty Coauthor(s)/Mentor(s): Dale Moore
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

P47: Effects of fluoxetine on rodent cognition and behavior
Corresponding Student Author: Daniela Agudelo
Student Coauthor(s): Ashanti Griggs
Faculty Coauthor(s)/Mentor(s): Joshua Rodefer
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

P48: Effects of ketamine administration and environmental enrichment during adolescence
Corresponding Student Author: Fatima Humayun
Faculty Coauthor(s)/Mentor(s): Joshua Rodefer
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project; Honors Research

P49: Educational Videos for Generating Heat Maps of Hg0 pollution in ASGM Communities
Corresponding Student Author: Samantha Brown
Student Coauthor(s): Danielle Loving; Kazi Hasan; Keegan Moody; Alaina Dawson; Kathryn Howe
Faculty Coauthor(s)/Mentor(s): Adam M. Kiefer; Jeffrey D. Hugdahl
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project; Mercer On Mission
GENERAL POSTER PRESENTATIONS

P50: Effects of hypothyroidism in prenatal, postnatal, and pre/postnatal development in juvenile rats
Corresponding Student Author: Stephany Leal
Student Coauthor(s): Alice Yoon
Faculty Coauthor(s)/Mentor(s): Katharine Northcutt
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

P51: Biophysical Effects of Mechanical Force on Cell Adhesion
Corresponding Student Author: Erin Moore
Student Coauthor(s): Zaid Al-Husein; Mason Burton; Fatima Lopez-Sosa; Emma Perdomo; Kathryn Wirth
Faculty Coauthor(s)/Mentor(s): Alireza Sarvestani; Chamaree de Silva
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

P52: Thermodynamics of ligand exchange on CdSe quantum dots
Corresponding Student Author: Sierra Hathaway
Student Coauthor(s): Allison (Allie) Jones
Faculty Coauthor(s)/Mentor(s): Joseph Keene
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

P53: Investigating the Enzymatic Activity of the S189D Phosphomimetic Mutation of OGA
Corresponding Student Author: Tessa Gebert
Faculty Coauthor(s)/Mentor(s): Garland Crawford
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

P54: Lanthionine Synthetase C-like Protein 2: A potential therapeutic target for treating neuropathic pain
Corresponding Student Author: David Christy
Student Coauthor(s): Dylan W Maixner
Faculty Coauthor(s)/Mentor(s): Han-Rong Weng
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

P55: Biofilm Inhibition of Staphylococcus aureus by Mutagenesis
Corresponding Student Author: Justin Bloodworth
Faculty Coauthor(s)/Mentor(s): Linda Hensel
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Course Assignment
**P56: Efficacy of the quaternary ammonium chloride disinfectant Zep in a university fitness center**
Corresponding Student Author: Juliana Arenas Velasquez
Student Coauthor(s): Jordan Barnett
Faculty Coauthor(s)/Mentor(s): Virginia Young
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Course-based Undergraduate Research (CURE)

**P57: Effect of Thermal Simulation on Immune System Cell Proliferation**
Corresponding Student Author: Christina Kinder
Student Coauthor(s): Ben Hitchcock; Brittany Tran
Faculty Coauthor(s)/Mentor(s): Peter Uchakin
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Course-based Undergraduate Research (CURE); Honors Research; Course Assignment

**P58: Habitual Methamphetamine Self-Administration is Reduced by Chemogenetic Inhibition of the Patch Compartment of the Striatum**
Corresponding Student Author: Katharine Warner
Faculty Coauthor(s)/Mentor(s): Kristin Horner; Troy Kendrick
Research Area: Physical, Natural, and Biomedical Sciences
University Programs: Faculty-led Research Project

**P59: Media and Sentencing in Recent Drug Epidemics**
Corresponding Student Author: Peri Staples
Faculty Coauthor(s)/Mentor(s): Eimad Houry
Research Area: Public Health and Health Studies
University Programs: Honors Research; Course Assignment

**P60: Proximal tubular hypertrophy enhances basolateral uptake of mercury**
Corresponding Student Author: Kayla E. Matta
Faculty Coauthor(s)/Mentor(s): Christy C. Bridges; Delon W. Barfuss; Lucy Joshee
Research Area: Public Health and Health Studies
University Programs: Faculty-led Research Project

**P61: Chemogenetic inhibition of prelimbic cortex reduces habitual methamphetamine self-administration.**
Corresponding Student Author: Priyadharshine Ramesh babu
Student Coauthor(s): Ashitha Dama
Faculty Coauthor(s)/Mentor(s): Kristen Horner
Research Area: Public Health and Health Studies
University Programs: Honors Research; Course Assignment
**GENERAL POSTER PRESENTATIONS**

**P62: Green Power: Measuring Environmental Organizations' Financial Resources**
Corresponding Student Author: William Ficklin-Alred
Faculty Coauthor(s)/Mentor(s): Derek Glasgow
Research Area: Social Sciences
University Programs: Faculty-led Research Project; Course-based Undergraduate Research (CURE)

**P63: GLP-1 agonists improve cerebrovascular integrity and vascular induced cognitive impairment and dementia beyond glycemic control via recovery of brain pericytes functions in diabetic mice**
Corresponding Student Author: Joseph Bailey
Faculty Coauthor(s)/Mentor(s): Mohammed Abdelsaid; Amy Barrett
Research Area: Public Health and Health Studies

**P64: Reduction of Angiotensin II Induced Hypertension and Cardiac Fibrosis with GLP-1 Receptor Agonist and DPP-4 Inhibitor via Decreasing NADPH Oxidase Expression**
Corresponding Student Author: Trenton E. Banks
Faculty Coauthor(s)/Mentor(s): Zhi-Qing Zhao
Research Area: Public Health and Health Studies

**P65: Methamphetamine Induced Immune Dysregulation**
Corresponding Student Author: Sydney Andrzejak
Faculty Coauthor(s)/Mentor(s): Peter Uchakin
Research Area: Public Health and Health Studies

**P66: The Impact of Racial Microaggressions on the Mental Health of South Asian Americans**
Corresponding Student Author: Shreya Kanukunta
Faculty Coauthor(s)/Mentor(s): Eimad Houry
Research Area: Public Health and Health Studies
University Programs: Honors Research

**P67: Perfectionism and Rumination: Using Distraction to Help Perfectionists Effectively Respond to Failure**
Corresponding Student Author: Brette Moore
Student Coauthor(s): Lilah Donnelly
Faculty Coauthor(s)/Mentor(s): Amy Borchardt
Research Area: Social Sciences

**P68: Insight over Post-Traumatic Stress Disorder and its Portrayal in Classical Literature – A Take on Homer**
Corresponding Student Author: MacKenzie Hansard
Faculty Coauthor(s)/Mentor(s): Derek Glasgow
Research Area: Social Sciences
University Programs: Course Assignment
P69: Comparative Approaches to Legalization of Marijuana and Factors That Affect Public Opinion
Corresponding Student Author: Kory Jarzyk
Faculty Coauthor(s)/Mentor(s): Lori Johnson
Research Area: Social Sciences
University Programs: Honors Research; Course Assignment

P70: The Brain Doesn’t Lie?: Neuroscience Imaging in Malpractice Lawsuits
Corresponding Student Author: Kellie Wydrinski
Faculty Coauthor(s)/Mentor(s): Sara Appleby
Research Area: Social Sciences
University Programs: Honors Research

P71: Obstructing Quality Care: Barriers Faced by Nurses When Becoming SANE Certified
Corresponding Student Author: Elisabeth Colquitt
Faculty Coauthor(s)/Mentor(s): Laura Simon
Research Area: Social Sciences
University Programs: Course-based Undergraduate Research (CURE)

P72: What's God Got to do With It? Examining the Influence of Belief in a Higher Power on Motivations to be a Psychotherapist
Corresponding Student Author: Carlin Weinberg
Student Coauthor(s): Emily Wallace; Patrick Campbell; Alexa Richardson; Faith Holston; Paul Markham; Mackenzie Andreasen; Madison Dunn; Natalie Sannes; Ashley Pettway; Madison Mermelstein
Faculty Coauthor(s)/Mentor(s): Kevin Karl
Research Area: Social Sciences
University Programs: Faculty-led Research Project; Course-based Undergraduate Research (CURE)

P73: Come Together: Similarities and Differences of Psychotherapists with Conservative or Liberal Views
Corresponding Student Author: Alexa Richardson
Faculty Coauthor(s)/Mentor(s): Kevin Karl
Research Area: Social Sciences
University Programs: Faculty-led Research Project

P74: Urban Design as a Cause of Death? Relationships between Crosswalks and Pedestrian Safety in Macon
Corresponding Student Author: Riddhi Patel
Student Coauthor(s): Radhika Patel; Nithee Patel
Faculty Coauthor(s)/Mentor(s): Riku Kawaguchi
Research Area: Social Sciences
P75: Union Formation Amongst College Undergraduate and Graduate Students: A Study of Attitudes and Behaviors
Corresponding Student Author: Emily Mixon
Student Coauthor(s): Sydney Campbell
Faculty Coauthor(s)/Mentor(s): Laura Simon
Research Area: Social Sciences
University Programs: Honors Research

P76: Protecting the Hidden Victims: Helping Families Bond Throughout Incarceration
Corresponding Student Author: Taylor Rinberger
Faculty Coauthor(s)/Mentor(s): Sara Appleby
Research Area: Social Sciences
University Programs: Honors Research; Service Scholars

P77: Don’t You (Forget About Age): How Age Impacts the Reported Effectiveness of Christian Therapy Interventions
Corresponding Student Author: Natalie Sannes
Faculty Coauthor(s)/Mentor(s): Kevin Karl
Research Area: Social Sciences
University Programs: Faculty-led Research Project

P78: Vaping and social media: How vaping is normalized by e-cigarette companies
Corresponding Student Author: Hieu Nguyen
Faculty Coauthor(s)/Mentor(s): Eimad C.Houry
Research Area: Public Health and Health Studies