a sixth
BEAR DAY
RISES breakthroughs in engagement,
arts and research

april 7
8
2016
Notes:

Cover Design by: Otavio Ariano Gaio
Welcome to BEAR Day 2016 at Mercer University!

Breakthroughs in Engagement, the Arts and Research (BEAR) Day and Engineering Expo Day 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 100 presentations with contributions from over 150 students. At the same time, Engineering Expo Day events feature oral and poster presentations on research and 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 2016 is Mark VanLandingham, PhD. Dr. VanLandingham graduated from Mercer in 1980 from the College of Liberal Arts as a double major in biology and psychology with a concentration in mathematics. He is the Thomas C. Keller Professor in the Department of Global Community Health and Behavioral Sciences of the Tulane University School of Public Health and Tropical Medicine. After completing his undergraduate work at Mercer, Dr. VanLandingham went on to obtain a MPH from the University of Michigan and a PhD from Princeton University. Dr. VanLandingham’s current research interests include investigating the social antecedents and consequences of the AIDS epidemic in Thailand; rural-to-urban migration in Southeast Asia; the health of Vietnamese immigrants; and the social and health consequences of Hurricane Katrina for New Orleans residents. He has received major funding for his work from the National Institutes of Health, the Russell Sage Foundation, the Rockefeller Foundation, and the Mellon Foundation. We look forward to hearing about his career journey and how his experiences at Mercer have shaped this path.

BEAR Day demonstrates and honors the achievements of students and highlights the depth and breadth of the academic experiences at Mercer. I know you will enjoy 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
Dean of Graduate Studies
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<thead>
<tr>
<th>Time</th>
<th>William</th>
<th>McCorkie Music</th>
<th>Hardman Art</th>
<th>Knight</th>
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**Thursday April 7, 2016**

- **Engineering Expo**
  - Plunkett Gallery Art Exhibition

**2016 Schedule at a Glance**

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<tr>
<th>Time</th>
<th>William</th>
<th>McCorkie Music</th>
<th>Hardman Art</th>
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**Friday April 8, 2016**

- **Engineering Expo**
  - Fickling Hall: Brass Choir Performance

**Color Codes**

- Poster Presentations
- Paper Presentations
- Creative Expression
- Competitions
- Awards
- Keynote Address
- Meals
# Bear Day Schedule

**Thursday, April 7th, 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>4:30 pm - 5:30 pm</td>
<td>General Poster Session I</td>
<td>Heritage Hall, University Center</td>
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<tr>
<td>5:30 pm - 6:30 pm</td>
<td>General Poster Session II</td>
<td>Heritage Hall, University Center</td>
</tr>
<tr>
<td>6:30 pm - 7:30 pm</td>
<td>Dinner Break</td>
<td>On your own</td>
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<tr>
<td>7:30 pm</td>
<td>Keynote: Dr. Mark J. VanLandingham</td>
<td>President’s Dining Room (UC)</td>
</tr>
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“Leveraging your Undergraduate Experience for a Career in Science (or for Anything Else): An Illustration”

**Friday, April 8th, 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>9:00 am - 3:30 pm</td>
<td>General Posters available for review</td>
<td>Heritage Hall, University Center</td>
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<tr>
<td>9:00 am - 5:00 pm</td>
<td>Art Exhibition</td>
<td>Plunkett Gallery, Hardman Hall</td>
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<tr>
<td>9:00 am - 9:50 am</td>
<td>General Paper Session I</td>
<td>Knight Hall and Stetson 251</td>
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<tr>
<td>9:00 am - 10:50 am</td>
<td>Engineering Expo’s Freshmen Design Competition</td>
<td>Lobby of Engineering Building</td>
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<td>EGC</td>
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<tr>
<td>10:00 am - 10:50 am</td>
<td>General Paper Session II</td>
<td>Knight Hall and Stetson 251</td>
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<tr>
<td>10:00 am - 11:00 am</td>
<td>Art Student Awards Ceremony</td>
<td>Plunkett Gallery, Hardman Hall</td>
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<tr>
<td>10:00 am - 11:00 am</td>
<td>University Brass Choir</td>
<td>Fickling Hall, Music Building</td>
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<tr>
<td>11:00 am - 11:50 am</td>
<td>Expo Keynote - Dr. Samantha Riley</td>
<td>SEB Auditorium</td>
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“The Anatomy of Innovation in Engineering”

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>11:00 am - 11:50 am</td>
<td>General Paper Session III</td>
<td>Knight Hall and Stetson 251</td>
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<tr>
<td>11:00 am - 12:50 pm</td>
<td>General Paper Session III</td>
<td>Fickling Hall, Music Building</td>
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<tr>
<td>1:00 pm - 1:50 pm</td>
<td>General Paper Session IV</td>
<td>Knight, Stetson, and Fickling Halls</td>
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<tr>
<td>1:10 pm - 2:10 pm</td>
<td>Engineering Expo’s Poster Presentations of Senior Design, Honors, and Research</td>
<td>SEB Poster Galleries</td>
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<tr>
<td>2:00 pm - 3:00 pm</td>
<td>General Paper Session V</td>
<td>Knight Hall and Stetson 251</td>
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<tr>
<td>2:15 pm - 3:00 pm</td>
<td>Engineering Expo’s Podium Presentations Selected Senior Design, Honors, Research Projects, and Faculty Research</td>
<td>Classrooms, Engineering Buildings (EGC and SEB)</td>
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<td>4:00 pm</td>
<td>Honors Convocation</td>
<td>Willingham Auditorium</td>
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<td>7:00 pm - 9:00 pm</td>
<td>Senior Art Show Reception</td>
<td>567 Center for Renewal</td>
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<td>7:00 pm - 9:00 pm</td>
<td>Dulcimer Release Party</td>
<td>Penfield Hall</td>
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KEYNOTE ADDRESS

“Leveraging your Undergraduate Experience for a Career in Science (or for Anything Else): An Illustration”

Dr. Mark J. VanLandingham

Mark J. VanLandingham, Ph.D., is the Thomas C. Keller Professor at Tulane University’s School of Public Health and Tropical Medicine. Professor VanLandingham graduated from Mercer University magna cum laude in 1980 with double majors in biology and psychology and a concentration in mathematics. After a two year stint in the Peace Corps (Fisheries; Thailand), he taught high school science and math before going on for graduate degrees in public health (University of Michigan) and sociology (Princeton University).

At Tulane, Professor VanLandingham teaches the graduate-level courses Population Studies; Health Problems of Developing Societies; and Research Field Methods. His current research focuses on social and demographic change in Southeast Asia, especially changes that are brought about by modernization and urbanization. Professor VanLandingham is also interested in how immigrants from that part of the world fare in the U.S. His talk today will focus on a book-length work he is completing about how Vietnamese immigrants in New Orleans fared after Hurricane Katrina flooded their community in August 2005.
GENERAL POSTER PRESENTATIONS
Heritage Hall, University Center
Thursday April 7, 2016
4:30 - 6:30 PM

Odd-numbered posters will be presented from 4:30-5:30 pm and even-numbered posters from 5:30-6:30 pm. All project authors are listed; presenter’s name(s) are in italics.

1. **Maurilia Oldham, Maggie Callahan**, "The Great Paradox: Great Books & Great Precepting"; Faculty Mentor: Dr. Deneen Senasi
2. **Maurilia Oldham, Maeve Dineen, Sarah Barry, Kha-Yen Le, William Scruggs, Samuel Sheinman**, "Precepting Across Disciplines: A Comparative Look at Writing Instruction"; Faculty Mentor: Dr. Deneen Senasi
3. **Grace (Gracie) Dusseau**, "Cloud Atlas's Humanity: A Globalized, Savage Race"; Faculty Mentor: Dr. Gordon R. Johnston
4. **Taylor Jolly, Emily Thompson**, "Bears Speak"; Faculty Mentor: Melissa Nunn
5. **Wayne Gammon, Toni Poole, Cole Porter**, "The Primary Calendar: How Dates & States Elect Candidates"; Faculty Mentor: Chris Grant
7. **Annie Barrett**, "Effects of Hosting a World Cup in a Developing Country"; Faculty Mentors: Dr. Brennan, Dr. Lynch
8. **Hayden Gregory**, "Notre Dame v Army 1913: The Game That Changed America's Sport"; Faculty Mentor: John Thomas Scott
9. **Hayley Gray**, "Inside the Disney Brand"; Faculty Mentor: Linda Brennan
10. **Oscar Martinez, Dr. Saravia**, "Contraception and Crime"; Faculty Mentor: Dr. Saravia
11. **Heather Carpenter**, "The Relationship between CRM and Non-profit Organizations: the Pink Parasite"; Faculty Mentor: Linda Brennan
12. **Christina Murray**, "How do small business attract customers?"; Faculty Mentor: Linda Brennan
13. **Megan Mandula**, "Subprime Auto Loans: Over-lending or Over-thinking It?"; Faculty Mentors: Linda Brennan, Kenneth Tah
14. **Jessica Hagin**, "Influences of Gender, Intent of Harm, and Sexual Orientation on Perceptions of Domestic Violence within the Collegiate Community"; Faculty Mentor: Amy Borchardt
15. **Rachael Ajetomobi**, "The Impact of Videos Pre-Stressor on Mood, Stress Response, and Test Performance"; Faculty Mentor: Dr. Amy Borchardt
17. **Halle Matula**, "Race and Punishment: The Mediating Effects of Masculinity."; Faculty Mentors: Jarred R. Jenkins, Sarah Appleby, Tanya Sharon
18. Katelyn Herman, Shivam Patel, Jessica Smith, Craig Byron, "Cranial Fibrous Connective Tissue Joints and Experiments in their Growth"; Faculty Mentor: Craig Byron
19. Vesta Nwankwo, Dr. Katharine Northcutt, "Variations in Juvenile Rat Play Behavior Among Three Rat Strains"; Faculty Mentor: Dr. Katharine Northcutt
20. Bhaumik Jivan, Daquelle Peppers, Lea Sedghi, Ryan Jennings, "Nitrosopumilus maritimus metabolic reconstruction links marine microorganisms to the global carbon cycle"; Faculty Mentor: Dr. Ryan deM. Jennings
21. Cassandra Hensel, Jared Morrison, Hoang Nguyen, Craig Byron, "The functional morphology of douc langur (genus Pygathrix) brachiation and the justification of the old-world semibrachiator category."; Faculty Mentor: Craig Byron
22. Ashley Ray, Natalie Biel, Dr. Gretchen L. Bentz, Mr. Charles Randall Moss II, Ms. Carolyn Gilbert, "Epstein-Barr Virus Latent Membrane Protein-1 Induces SUMO-1/2/3 Expression in Lymphomas and Cells via the Activation of NF-kB"; Faculty Mentors: Dr. Gretchen L. Bentz, Mr. Charles Randall Moss II, Ms. Carolyn Gilbert
23. Taylor Wray, Casey Barnard, Ashley Caixeiro, Candace Cook, Tyler McCammon, Dimple Patel, Maddie Clark, Rahul Kasan, Cristina Mursuli, Heather Bowman Cutway, "Efficiency of Novice and Experienced Volunteers in Invasive Plant Management"; Faculty Mentor: Heather Bowman Cutway
24. Priyancka Naik, Kaitlyn McBride, Dr. Linda Hensel, "UV-induced DNA Topology Affects Transformation Frequency in E. coli recA- and recA+ strains: Authentic Research in a Junior-level Genetics Course"; Faculty Mentor: Dr. Linda Hensel
25. Lea Sedghi, Allison Clinard, Bhaumik Jivan, Ryan Jennings, "Genome analysis of Streptococcus oralis reveals metabolic significance in oral biofilm formation"; Faculty Mentor: Dr. Ryan deM. Jennings
27. Arbaz Momin, Richard McCann, "Cell Adhesion is Vertebrate Heart Assembly and Remodeling"; Faculty Mentor: Richard McCann
28. Miley Buss, Dr. Bridget Trogden, "Examining Obesity at the Molecular Level"; Faculty Mentor: Dr. Bridget Trogden
29. Sydney Koenig, Dr. Garland Crawford, "Investigating the Regulation the O-GlcNAc Hydrolyzing Enzyme OGA"; Faculty Mentor: Dr. Garland Crawford
32. Oge Onuh, Dr. Garland Crawford, Dr. Kathryn Kloepper, "Development of Small-Scale Assay to Measure Soluble Phosphate"; Faculty Mentors: Dr. Garland Crawford, Dr. Kathryn Kloepper
33. Zachary Di Giusto, Joseph D. Keene, "Synthesis and Characterization of CdSe Quantum Dots"; Faculty Mentor: Joseph D. Keene
34. Catherine Will, Kevin Bucholtz, James Thomas, "Development of a selective inhibitor for human 3β-hydroxysteroid dehydrogenase 1 (3β-HSD1)"; Faculty Mentors: Kevin Bucholtz, James Thomas
35. Ghazal Ahmad, Dale Moore, "Evidence for Synthesis-Condition-Controlled Molecular Coiling in Polypyrrole Oligomers"; Faculty Mentor: Dale Moore
36. Shannon Alexander, Ann Truong, Dr. Andrew J. Pounds, "Evaluating Binding Enthalpies for Mercury Chelators"; Faculty Mentor: Dr. Andrew J. Pounds

TOWNSEND SCHOOL OF MUSIC
Mercer University Brass Choir
Dr. Douglas Hill, Conductor
McCorkle Music Building, Fickling Recital Hall
Friday April 8, 2016
10:00 - 11:00 AM

Any lover of brass music will enjoy this concert featuring an eclectic selection of repertoire that represents the literature studied over the past academic year. In addition to the Brass Choir, the Trombone Quartet will premiere a newly commissioned work “Mean Streets” composed by Miami composer Alejandro Guardia. Other special performers include the Horn Quartet, Trumpet Ensemble and the Tuba/Euphonium Ensemble. Members of the Percussion Ensemble will also join the Brass Choir. This concert of varied literature is sure to add a little “Brass” to your morning!

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<th>Trumpets</th>
<th>Horns</th>
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<tr>
<td>Rolando Fernandez</td>
<td>Megan Cargin</td>
<td>Andrew Braley</td>
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<td>Jeremiah Kersting</td>
<td>Kirston Cox</td>
<td>Matthew Ezeh</td>
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<td>Dillon Watkins</td>
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<td>Douglas Richardson</td>
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<td>Jonathan Huynh</td>
<td>Carter Watkins</td>
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<td>Zack Mikos</td>
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<td>Paul King</td>
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<tr>
<td>Kyle Wegner</td>
<td>Kyle Montgomery</td>
<td>Josh Bowman</td>
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<td>Cody Taylor</td>
<td>Jon Grizzle</td>
<td>Shanna Mattson</td>
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<td>Beau Harper</td>
<td>Cameron Underwood</td>
<td>Bailey Noles</td>
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<td>Noah Samuelson</td>
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GENERAL ORAL PRESENTATIONS  
Friday April 8, 2016

Each presentation should last approximately 20-25 minutes, including Q & A. The second presentation will begin at 25 minutes after the hour. Sessions with three presenters will run 75 minutes with the third presentation beginning 50 minutes after the hour. All project authors are listed; presenter’s name(s) are in italics.

Concurrent Session I  
9:00 - 9:50

1. Knight Hall 101
   
   Moderator: Anna Weaver
   
   *Teal St. Nicklaus, “A Lacanian Reading of Robert Browning’s “Porphyria’s Lover””; Faculty Mentor: Anya Silver*
   
   *Vivian Goodwin, “Passion over Practicality: Why Jane Eyre and Edward Rochester are a Perfect Match”; Faculty Mentor: Anya Silver*

2. Knight Hall 104
   
   Moderator: Abigail Dowling
   
   *Mary Penniman, Thomas Hannah, Loren Sumner, “Basic Concepts of Global Warming for the Informed Citizen”; Faculty Mentor: Loren Sumner*
   
   *Michael Kshatri, “From Pristine to Polluted: An Examination and Possible Solutions to Peru’s Water Pollution”; Faculty Mentors: Dr. Amy Nichols-Belo, Dr. Heather Bowman-Cutway*

3. Knight Hall 203
   
   Moderator: Lori Johnson
   
   *Bendu Sherman, “An Analysis of The Disconnect Between Democracy and Corruption”; Faculty Mentor: Eimad Houry*
   
   *Maurilia Oldham, Maggie Callahan, Drew Bryant, “Shooting Somebody on 5th Avenue and Gaining Voters: Demagogues in the 2016 Primaries”; Faculty Mentor: Chris Grant*
4. Knight Hall 207  
Moderator: Jonathan Glance  
*Colin Whalen,* "The Radical Similarity of Donne: The Correlations between the Erotic and the Holy"; Faculty Mentor: Deneen Senasi  
*Sterling Neill,* "John Donne the Sexual and the Spiritual"; Faculty Mentor: Dr. Deneen Senasi

5. Knight Hall 210  
Moderator: Fletcher Winston  
*Rachel Paul, Emily Holland,* "The Freshman $5000: Attitudes Regarding Mandatory Meal Plans"; Faculty Mentor: Fletcher Winston  
*Emily Ishihara,* "Just [Don't] Do It: Analyzing Student Attitudes Towards Women in the Draft"; Faculty Mentor: Fletcher Winston

6. Knight Hall 303  
Moderator: Hope McIlwain  
*Jonathan Beall, Dr. Hope McIlwain,* "A Mathematical Approach to the Game Humans vs. Zombies"; Faculty Mentor: Dr. Hope McIlwain  
*Jack Yoon,* "Solving Polynomials"; Faculty Mentor: Curtis Herink

7. Knight Hall 308  
Moderator: Achim Kopp  
*Parker Bettencourt,* "Dostoevsky's Greco-Christian Brothers; Bacchae’s impact on Brothers Karamazov"; Faculty Mentor: Jamie Cockfield  
*Jasbir Kaur,* "An Epicurean theory of sensation: Lucretius’ atomism and modern science"; Faculty Mentor: Achim Kopp

8. Stetson 251  
Moderator: Allen Lynch  
*Nora Darling,* "Prolific Scripts: How NGOs are increasing socially scripted dialogue surrounding HIV/AIDS in Khayelitsha Township, Western Cape, South Africa"; Faculty Mentor: Dr. Amy Nichols-Belo  
*Julia Stitt,* "Housing Crisis and Issues In South Africa"; Faculty Mentor: Linda Brennan
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Concurrent Session II

10:00 - 10:50

1. Knight Hall  101
   Moderator: Anna Weaver
   Alex Mooring, "Women's Positions in Seventeenth Century Poetry: "Uncanny Strangers" in Indefinite Space"; Faculty Mentor: Dr. Deneen Senasi
   Yael Tessler, "JUST GIRLY THINGS: BOYS, BEAUTY, POISE, AND CONFUSION"; Faculty Mentor: John Thomas Scott

2. Knight Hall  104
   Moderator: David R. Harshbarger
   John Abernathy, "Veteran's Affairs--Evaluating Effectiveness"; Faculty Mentor: Chris Grant
   Aishwarya Sasidharen, "Person's with Disability in India: Medical infrastructure, Stigma, and Policy"; Faculty Mentor: Eimad Houry

3. Knight Hall  203
   Moderator: Darlene Flaming
   Slayten Carter, Michael Matthews, "Media Matters: Media Affects on the Primary Nomination Process in American Politics"; Faculty Mentor: Chris Grant
   Elizabeth McKay, Spencer Tyson, Desirrae Jones, "Campaign Strategies"; Faculty Mentor: Dr. Grant

4. Knight Hall  207
   Moderator: Robert Good
   Andrew Winslett, Caroline Loos, Olivia Buckner, "Woman in the Oval Office: Is 2016 the Year?"; Faculty Mentor: Chris Grant
   Christian Arrowood, Johnel Bowers, Michael Kumi, "Race and the 2016 Presidential Primary"; Faculty Mentor: Chris Grant

5. Knight Hall  210
   Moderator: Jose Pino
   Kimberlee Fernandez, Professor Pino, "Hispanic Diabetes Concern in Macon"; Faculty Mentor: Professor Pino
   Kaitlyn Harvey, Tori Konrad, Emma Peel, "The Importance of Translators"; Faculty Mentor: Jose Pino
6. Knight Hall  303

Moderator: Jarred Jenkins
Aaron Hinckley, Robert Muller, Antonio Saravia, "HIV medication diversion in Georgia";
Faculty Mentor: Antonio Saravia
Ashley Smith, Dr. Madeline Domino, "Traveling the Unbeaten Path: The Affordable Care
Act’s Historical, Input, Privacy, and Ethical Implications (Research in Progress)"
Faculty Mentor: Dr. Madeline Domino

7. Knight Hall  308

Moderator: David Cozart
Jamie Bond, "Gentile Conversions: Easy as Pie"; Faculty Mentor: Scott Nash
Melissa Niedrauer, "A Bridge between Greek Philosophy and Judaism: Philo as an Aid to
Understanding the New Testament’s Interaction with Philosophy"; Faculty Mentor: Robert Scott Nash

8. Stetson  251

Moderator: Amy Wiles
Kylie Black, Cedrick Daphney, Dr. Kevin S. Murnane, "Comparison of memory tasks in a
mouse model of Alzheimer’s disease"; Faculty Mentor: Dr. Kevin S. Murnane
Jessica Resnick, Robert Akers, Clay E. Pandorf, Amy M. Wiles, "Transcriptome Analysis
Reveals Regulation of Novel IncRNAs Transcribed Near Contractile Protein-Coding
Genes During Skeletal Muscle Unloading"; Faculty Mentors: Clay E. Pandorf, Amy
M. Wiles

Concurrent Session III
11:00 - 12:15

1. Fickling Hall

Moderator: Richard Kosowski
Beau Palmer, "Samuel Barber's Hermit Songs"; Faculty Mentor: Dr. Richard Kosowski
and Stress Levels in a University Choir"; Faculty Mentor: Richard Kosowski, D.M.A.
Lillie Marie Barnett, Richard Kosowski, "The Relationship between Choral Singing and
Group Cohesion in a University Choir"; Faculty Mentor: Richard Kosowski

2. Knight Hall  101

Moderator: Janell Johnson
Michael Kshatri, "Through Troubled Times"; Faculty Mentor: Dr. Gordon Johnston
Maurilia Oldham, "When the Village Breaks Down: Isolation and Market Relationships in
George Saunders's Fiction"; Faculty Mentor: Gordon Johnston
Haley Fischer, "Pat Conroy's Catharsis: Healing and Its Harms"; Faculty Mentor: Dr. Richardson
3. Knight Hall 104

Moderator: Abigail Dowling

*Chris Isennock*, "Immigration Sanctuary Cities: Safe Haven or Fool’s Paradise"; Faculty Mentor: Dr. Fernando Palacios

*Alina Yemelyanov*, "Immigration and Turmoil in Scandinavia: Chaos Caused by a Migrant Upheaval"; Faculty Mentor: Dr. Palacios

*Jamie Bond*, "Deja Vu: Immigration Lessons from the Late Roman Empire for Modern Europe"; Faculty Mentors: Jorge Palacios, Abigail Dowling

4. Knight Hall 203

Moderator: Paul Lewis

*Maggie Cropp*, "Tattoos for the Average Joe: Why Students Are Increasingly Getting Tattoos"; Faculty Mentor: Fletcher Winston

*Jacqueline Atchison*, "The Decision to Dissent: Factors that Influence Student Participation in Social Movements"; Faculty Mentor: Fletcher Winston

*Briana Hagins*, "Factors that Influence Mercer students’ Involvement in Student Organizations"; Faculty Mentor: Fletcher Winston

5. Knight Hall 207

Moderator: Robert Good

*Avery Lewis*, "Crossing Boundaries"; Faculty Mentor: Gordon Johnston

*Elise Riggins*, "Greater Than Delirium"; Faculty Mentors: Gordon Johnston, Marc Jolley

*Chelsey Guy*, "'Something Rich and Strange:' The Magical Legacy of Shakespeare in Modern Young Adult Fiction"; Faculty Mentor: Dr. Deneen Senasi

6. Knight Hall 210

Moderator: Kenneth Tah

*Patricia Surber*, "Mercer on Mission Kenya"; Faculty Mentor: Tim Regan Porter

*Guta Marin*, "Journalism and digital story telling"; Faculty Mentor: Tim Regan Porter

*Leslie Graham*, "Advertising Effectiveness of Non-Profit"; Faculty Mentor: Stephanie Howard

7. Knight Hall 303

Moderator: Hope McIlwain

*Austin Rose, Dr. Ania Rynarzewska*, "Defining Daily Fantasy Sports: Chance or Skill?"; Faculty Mentor: Dr. Ania Rynarzewska

*Andrew Sowerbrower, William Dehnart, Carter McKinnon, Bryson Wright, Dr. Geoffrey Ngene*, "Valuation of firms for Investors’ Recommendation: The Case of Intercontinental Exchange (ICE)"; Faculty Mentor: Dr. Geoffrey Ngene

*Tyler Allee, Dr. Hope McIlwain*, "A Modified Massey Method Approach to Ranking Players on The PGA Tour"; Faculty Mentor: Dr. Hope McIlwain
8. Knight Hall  308

Moderator: Creighton Rosental

Farah Rafi, "Can Justice be a Remedy for Injustice"; Faculty Mentor: Charlotte Thomas
Anna Bates, "Philosopher, Interrupted: The Rhetoric of Adeimantus in Plato's Republic";
   Faculty Mentor: Dr. Kevin Honeycutt
Teal St. Nicklaus, "Reading Critical Theory in Plato’s The Republic and Phaedrus"; Faculty
   Mentor: Dr. Charlotte Thomas

9. Stetson  251

Moderator: Ryan Jennings

Kiara Smith, Adam Kiefer, Caryn S. Seney, "Method development for determination of Hg
   concentrations in artisanal small-scale gold mining (ASGM) samples using the
   Milestone direct mercury analyzer (DMA-80)"; Faculty Mentors: Adam Kiefer, Caryn
   S. Seney
Thomas Norton, Dale Moore, "Tolerance For Anderson Localization In Semiconductor
   Alloys: Quantum Dot Studies As Model For Supersmall Electronics"; Faculty
   Mentor: Dale Moore
Carson Moore, Dr. Dale Moore, "USING A TWO-STAGE QUANTUM DOT SYNTHESIS TO
   TEST THE DEPTH OF DOTS’ NEAR-SURFACE DISORDER"; Faculty Mentor: Dr. Dale
   Moore

Concurrent Session IV
1:00 - 1:50

1. Fickling Hall

Moderator: Kathryn White

Kennedi Johnson, "Strange Fruit: Music as a Tool for Social Justice"; Faculty Mentor:
   Kathryn White

2. Knight Hall  101

Moderator: Jose Pino

Taylor Steen, "H.G. Wells' The Time Machine and the Arrogance of Man"; Faculty Mentor:
   Anna Silver
Rachel McDonald, "Heteronormativity in a Sexless World: Eloi Gender Performativity in H.
   G. Wells's The Time Machine"; Faculty Mentor: Anna Silver

3. Knight Hall  104

Moderator: Briana Stenard

Taylor Bischoff, "DREAMing of a Better Future: The Well-Being of Immigrant Children in
   the United States"; Faculty Mentor: Jorge Palacios
Michael Kshatri, "A La Tierra Dorada: A Look at the Japanese Immigration to Peru";
   Faculty Mentor: Dr. Jorge Fernando Palacios
4. Knight Hall 203
Moderator: Fletcher Winston
Jessica Landress, Andrew Clarke, "P.O.L.I.C.E. Perception of Officers of the Law In Communities Everywhere"; Faculty Mentor: Dr. Fletcher Winston
Alize' Mitchell, "K.I.D.S Keeping juvenile offenders incarcerated doesn’t stop crime... or does it?"; Faculty Mentor: Dr. Fletcher Winston

5. Knight Hall 207
Moderator: Ed Weintraut
Tori Tanner, "Studying Abroad with a Purpose: Working to Ensure Second-Language Acquisition"; Faculty Mentor: Fernando Palacios
William Scruggs, "From One World to Another: On Translating El mundo azul: ama tu caos"; Faculty Mentor: Dr. Fernando Palacios

6. Knight Hall 210
Moderator: David Nelson
Elizabeth Boswell, "Gender Inequality: The Unseen Battle in the Civil Rights Movement Uncovered by Alice Walker and Anne Moody"; Faculty Mentor: Dr. David Davis
Sharon McElhaney, "Narratives of Homelessness"; Faculty Mentor: Dr. Margaret Eskew

7. Knight Hall 303
Moderator: Bob Easter
Seth Pedelty, "The Different Economic Paths of Armenia and Moldova"; Faculty Mentor: Antonio Saravia
Maggie Callahan, "Nothing to Whine About: Georgian Wine Production and EU Integration"; Faculty Mentor: Antonio

8. Knight Hall 308
Moderator: Bryan J. Whitfield
Emily Dokken, "Kwok Pui-lan: A Prism of Perspectives"; Faculty Mentor: Dr. Wilson Senasi
Sterling Neill, "Should We All Walk Away From Omelas?"; Faculty Mentor: Dr. Deneen Senasi

9. Stetson 251
Moderator: Joe Keene
Yi Tian Xiao, Dr. Robert J Visalli, Mrs. Melissa Visalli, "Toward a Functional Map of Varicella-Zoster Virus Capsid Portal Protein, pORF54"; Faculty Mentors: Dr. Robert J Visalli, Mrs. Melissa Visalli
Monique Singhal, Johnson Anna, Sonia Singhal, David Cobb, Amy Wiles, "A yeast growth assay to investigate the genes required for viability in an environment lacking sulfur."; Faculty Mentor: Amy Wiles
Concurrent Session V
2:00 - 3:15

1. Knight Hall  101
Moderator: Elizabeth Harper

Hanin Menchew, "The Racist Underpinnings of Minstrel Tradition in John Howard Griffin's "Black Like Me""; Faculty Mentor: David Davis

Elizabeth Boswell, "1987-89: The Years that Ultimately Led to the Destruction of the Georgia Baptist Convention and Mercer University Relationship"; Faculty Mentor: John Thomas Scott

Elizabeth Boswell, Nicholas Wooten, Kira Alexander, Marin Guta, Jessica Smith, Hanin Menchew, Dr. David Davis, "Race in Macon Seen Through John Oliver Killens's Youngblood"; Faculty Mentor: Dr. David Davis

2. Knight Hall  104
Moderator: Carolyn Yackel

Bryana Ferris, "An Analysis of Statistically Significant Determinants of Childhood Obesity in Macon, Georgia"; Faculty Mentor: Dr. Houry

Jacalyn Boards, "Health Asset Mapping and Efficacy of Health Assets in Macon Commission Districts 2,5,8"; Faculty Mentors: Dr. Amy Nichols-Belo, Dr. Eimad Houry

Tori Konrad, "How Access to Health Resources affects Health Outcomes for Hispanics"; Faculty Mentor: Amy Nichols-Belo

3. Knight Hall  203
Moderator: Tanya Sharon

Uniqwia Brown, Alesia Washington, "Addressing Sexual Assault on College Campuses"; Faculty Mentor: Fletcher Winston

Kathleen Taylor, Elizabeth Jones, "Abortion Attitudes of Mercer Undergraduates"; Faculty Mentor: Dr. Fletcher Winston

Andrada Sultana, Katelyn Hrkach, "Students Attitudes Towards Capital Punishment"; Faculty Mentor: Fletcher Winston

4. Knight Hall  207
Moderator: Tammy Crutchfield

Breane Kish, Ryan Knapp, Julia Mork, Tammy Crutchfield, "Traffick Jam: Teaching Teens to Drive Out Sex Trafficking"; Faculty Mentor: Tammy Crutchfield

Heather Carpenter, John Tipton, Michael Brock, Carina Placencia, Gianna Williams, Tammy Crutchfield, "Traffick Jam: Raising Funds to Teach Teens to Drive Out Sex Trafficking"; Faculty Mentor: Tammy Crutchfield

Heidi Park, Caroline Hardison, Alex Avant, Charlie Hurley, Tammy Crutchfield, "Traffick Jam Reraching out Through Research: An Quantitative Investigation"; Faculty Mentor: Tammy Crutchfield
5. Knight Hall 210

Moderator: Deneen Senasi
Gaby Hale, "I'll Make a Man Out of You: Higher Education in the Antebellum Era"; Faculty Mentor: John Thomas Scott
Laura Ann Harrell, "Maya Angelou's Caged Bird: A Song of Hope for African Americans"; Faculty Mentor: Dr. Deneen Senasi
Britney Henry, Teal St. Nicklaus, "Preceptor Podcasts: Bringing Learning to Your Bedroom"; Faculty Mentor: Dr. Deneen Senasi

6. Knight Hall 303

Moderator: Geoffrey Ngene
Jordin Post, Dr. Geoffrey, "Shock and Volatility Transmission for Hedging Effectiveness: Evidence from US and Frontier Markets"; Faculty Mentor: Dr. Geoffrey
Mathew Miner, Geoffrey Ngene, "Dynamic volatility and shock interactions: Evidence From Commodities and Stock Markets"; Faculty Mentor: Geoffrey Ngene
Daniel Sohn, Geoffrey Ngene, "The Spatial Heterogeneity of the Time-varying Impact of Shocks on Volatility: Some Evidence from MSA Housing Markets"; Faculty Mentor: Geoffrey Ngene

7. Knight Hall 308

Moderator: Rosalind Simson
Taylor Carter, "Virtue Among Men"; Faculty Mentor: Dr. Thomas
Yash Patel, "Whatever is not here, is nowhere else: Dharma through the life of Yudhisthira"; Faculty Mentor: Dr. Thomas
Jordan Morris, "A Virtuous Prince: Machiavelli’s analysis and description of princely “virtu” and how Cesare Borgia is the exemplary Prince."; Faculty Mentor: Kevin Honeycutt

8. Stetson 251

Moderator: Garland Crawford
Cotto Kelsy, Garland Crawford, "An Investigation of O-GlcNAcase (OGA) in Vero Cells"; Faculty Mentor: Garland Crawford
Rachel O'Keefe, Dr. Garland Crawford, "An Examination of the Enzyme OGA for Potential Regulation by Phosphorylation"; Faculty Mentor: Dr. Garland Crawford
Kirsten Brown, Garland Crawford, "Using an OGA Mutant to Purify O-GlcNAc-modified Proteins"; Faculty Mentor: Garland Crawford
ACKNOWLEDGEMENTS

Thank you to the following Faculty and Staff for making BEAR Day a success.

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<th>Abigail Dowling</th>
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APRIL 8
meet the artists and designers
567 CENTER
533 Cherry Street
work by other Mercer Art students
Roxy Bartz
Tracy Rosch
Jordan Gollon
The Dulcimer's Annual Release Party

Please join The Dulcimer staff and friends as we release our annual literary-arts magazine

April 8th, 2016 at 7pm in Penfield Hall

Free and open to the Mercer community

Light refreshments will be provided and free prints of the magazine distributed

To request alternative formats of accessible seating due to a disability, please contact Carol Burrowbridge at burrowbridge_c@mercer.edu or 304-2778 at least 7 days prior to the event date.
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