Oral and Poster Presentations
Schedule of Events

THE UNIVERSITY OF ALABAMA

April 7, 2015
Bryant Conference Center
PARTICIPATING COLLEGES & SCHOOLS

URCA COORDINATORS

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Human Environmental Sciences - Dr. Lori Turner
Nursing - Dr. Cassandra Ford
Social Work - Dr. Javonda Williams
Student Government Association - Ms. Laura Gregory
University Libraries - Dr. Mary Bess Paluzzi
Dear Participants:

Welcome to the Eighth Annual University of Alabama Undergraduate Research and Creative Activity Conference. We are excited to have over 700 students representing all academic disciplines participating in this year’s event. This is a record number of participants and the continued growth in participation proves that research and creative activities have become a hallmark of the undergraduate experience at The University of Alabama.

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

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

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

Judy Bonner  
President

Carl A. Pinkert  
Vice President for Research and Economic Development
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*Abstracts can be found online at urca.ua.edu

The presentation information included in this Program and in the online Abstract document is intended to represent exactly what was submitted by the student. Errors can occur in the transfer process.
Schedule of Events
Monday, April 6
1:00pm-4:00pm | Bryant Conference Center
Oral Presentation Check-in/Upload PowerPoint - All Colleges
Morning Poster Check-in and Setup *

Tuesday, April 7
7:30am - 8:00am
Morning Poster Check-in and Set-up

8:00am - 11:00am
Morning Poster Presentations

8:15am - 8:45am
Morning Oral Check-in/Upload PowerPoint

9:00am - 1:00pm
Morning Oral Presentations

11:00am - 11:45am
Poster Presentation Break Down

11:45am - 1:00pm
Afternoon Poster Check-in and Set-up

1:00pm - 3:00pm
Judges' Preliminary Review of Posters - A&S
Poster Presentations - Emerging Scholars

1:00pm - 1:45pm
Afternoon Oral Check-in/Upload PowerPoint

2:00pm - 5:00pm
Afternoon Oral Presentations

3:00pm - 6:00pm
Afternoon Poster Presentations

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

- Orals
  - Arts & Sciences
  - Education
  - Nursing

Afternoon
- Posters
  - Arts & Sciences
  - Emerging Scholars-Fine Arts & Humanities
  - Emerging Scholars-Social Sciences & Business

- Orals
  - Emerging Scholars-All
  - College of Commerce
  - C&IS
  - Social Work
COLLEGE OF ARTS & SCIENCES

DIVISION OF FINE ARTS & HUMANITIES

SCHEDULE OF ORAL PRESENTATIONS
Oral presentations in the Division of Fine Arts & Humanities have been divided into 2 groups and will be held in the Lackey Room and the Morgan Board Room at the Bryant Conference Center.

In each group, judges will select the top 2 oral presentations; other presentations may be selected for possible consideration for Honorable Mention. The students with the top 2 oral presentations in each group will then present to all judges. This second presentation will take place in one of the rooms initially used. Having seen the top and runner-up presentations from all the groups, judges may revise and finalize their selection of presentations for Honorable Mention.

Group 1 - Lackey Room

9:00
Amanda Bennett, English
Faculty Mentor: Trudier Harris, English
*Through the Eyes of Another: Representations of African American Women in Native Son and Invisible Man*

9:20
Brianna Adams, English
Faculty Mentor: Yolanda Manora, English
*Mapping Oppression: A Geocritical Reading of Naylor's The Women of Brewster Place*

9:40
Jamie Bowman, English
Faculty Mentor: Albert Pionke, English
*The Sacred Oxford University: Incorporating the Totemic with Bildungsroman in the Oxford Novel*

10:00
Jian Gao, History
Faculty Mentor: Ana Corbalan, Modern Language and Classics
*From Macacos to Paisanos: The History of Chinese Peruvians*

10:20
Lakeisha Skinner, History
Faculty Mentor: Jenny Shaw, History
*Laws Concerning Indentured Servants and Slaves in Virginia: Bacon's Rebellion and the Development of Racial Slavery*

10:40
Katherine June, Modern Language and Classics
Faculty Mentor: Ana Corbalan, Modern Language and Classics
*Butterfly: historical adaptation and creation from the page to the silver screen*

11:00
Nichole Corbett, New College
Faculty Mentor: Catherine Roach, New College
*Phenomenal Women*

11:20
Mark Ortiz, New College
Faculty Mentor: David Meek, Anthropology
*Toward a Political Ecology "from the hold"
Group 2- Wilson Room

9:00
Elizabeth Guthrie, Political Science
Faculty Mentor: Daniel Levine, Political Science
Palestinian Refugee Camps

9:20
Emily Vork, Religious Studies
Faculty Mentor: Merinda Simmons, Religious Studies
Authenticity and Nostalgia in Historical Scholarship

9:40
Sarah Griswold, Religious Studies
Faculty Mentor: Merinda Simmons, Religious Studies
Out in the Open

10:00
Delaney House, Theatre and Dance
Faculty Mentor: Sarah Barry, Theatre and Dance
Sculpting Movement

10:20
Kaylee MacKnight, Theatre and Dance
Faculty Mentor: Stacy Alley, Theatre and Dance
Island Song: From Page to Stage

10:40
Mallory Herring, Theatre and Dance
Faculty Mentor: Rebecca Salzer, Theatre and Dance
Drift: An Underwater Screendance

11:00
Sydney Smith, Economics, Finance and Legal Studies
Jordan Sandy, Economics, Finance and Legal Studies
Abigail Ratliff, Management and Marketing
Dana Sweeney, English
Faculty Mentor: Andrew Dewar, New College
Creative Campus Sustainability Initiative

11:20
Megan Cole, English
Faculty Mentor: Deborah Weiss, English
Admiration and Archaism: Historiography and Feminism in the Works of Catharine Macaulay and Mary Wollstonecraft
DIVISION OF FINE ARTS & HUMANITIES

LISTING OF POSTER PRESENTATIONS | 1:00 - 6:00PM

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

1
Levi Miller, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
*Dietary Impacts on Triglyceride Levels in Drosophila melanogaster*

2
Haley Davenport, Communicative Disorders
Faculty Mentor: Angela Barber, Communicative Disorders
*Parent Vs. Self-Report of Social Difficulty in College Students with an ASD Diagnosis*

3
Annemarie Lisko, English
Faculty Mentor: Lauren Cardon, English
*Citizens of the South*

4
Mary Fair, Music
Faculty Mentor: Andrea Trotter, Music
*The Effects of Melodies Sung in Higher versus Lower Keys on Infants' Heart Rate, Oxygen Saturation, Respiration Rate, and Behavior States: A Preliminary Analysis*

5
Randy Arnold, New College
Faculty Mentor: William Doty, Religious Studies
*Willoughby Disk Amplification*

6
Rachel Burton, Theatre and Dance
Faculty Mentor: Lawrence Jackson, Theatre and Dance
*The Influence of Rudolf von Laban on Dance Movement Therapy*

DIVISION OF SCIENCE & MATHEMATICS

SCHEDULE OF ORAL PRESENTATIONS

Oral presentations in the Division of Science & Mathematics have been divided into 2 groups and will be held in the Birmingham and the Central Bank rooms at the Bryant Conference Center.

In each group, judges will select the top two oral presentations; other presentations may be selected for Honorable Mention. The students with the top two oral presentations in each group will then present to all judges. This second presentation will take place in one of the rooms initially used. Having seen the top and runner-up presentations from all the groups, judges may revise and finalize their selection of presentations for Honorable Mention.
Group 1  Birmingham Room

9:00  
**Joseph Cardosi**, Biological Sciences  
Jeremy McDoniell, Biological Sciences  
Faculty Mentor: Juan Lopez-Bautista, Biological Sciences  
*The algal collection at The University of Alabama Herbarium UNA: Organization, digitization and databasing for public access*

9:20  
**Genevieve Miller**, Biological Sciences  
Faculty Mentor: Ryan Earley, Biological Sciences  
*Emersion in Response to Predator Cues in Wild Mangrove Rivulus*

9:40  
**Samantha Durfey**, Biological Sciences  
Faculty Mentor: Carol Duffy, Biological Sciences  
*Doxycline-Induced Reactivation of HSV-1*

10:00  
**Ruth Bishop**, Biological Sciences  
Faculty Mentor: Laura Reed, Biological Sciences  
*Identifying pupal-weight modulating genes which interact with diet in Drosophila melanogaster*

10:20  
**Richard Seeber**, Biological Sciences  
Faculty Mentor: Ryan Earley, Biological Sciences  
*Metabolic Response to Maternal Fasting in Embryonic Mangrove Rivulus*

10:40  
**Anna Moyer**, Biological Sciences  
Faculty Mentor: Janis O'Donnell, Biological Sciences  
*Molecular mechanisms of neuroinflammatory response in a Drosophila Parkinson's model*

11:00  
**Danny Laderberg**, Biological Sciences  
Faculty Mentor: Stephen Secor, Biological Sciences  
*Glucose tolerance and ecological determinants of blood glucose in the Diamondback water snake*

Group 2  Central Bank Room

9:00  
**Michael Shook**, Biological Sciences  
Faculty Mentor: Stevan Marcus, Biological Sciences  
*The Role of Two Rab7 Homologues in the Avicin Response in Fission Yeast*

9:20  
**Sean Miller**, Chemistry  
Faculty Mentor: David Dixon, Chemistry  
*Computational Studies of Phosphorylated Amino Acids and Corresponding Amides*

9:40  
**Alexander Risner**, Chemistry  
Faculty Mentor: Martin Bakker, Chemistry  
*Strong Electrostatic Adsorption of Nickel to Hierarchically Porous Carbon*
10:00
**Ryan Hacherl**, Chemistry  
Faculty Mentor: Carolyn Cassady, Chemistry  
*Mass Spectrometry of Biological Peptides*

10:20
**Mackenzie Branco**, New College  
Faculty Mentor: Catherine Roach, New College  
*A "Woof! Woof!" Worldview: Creating Comprehensive Educational Materials for the American Dog Owner*

10:40
**Melinda Mann**, New College  
Faculty Mentor: Steven Ericson, Geography  
*Time-Spatial Analysis of Crime on the Campus of Georgia State University*

11:00
**Shuwen Yue**, Chemical and Biological Engineering  
Faculty Mentor: David Dixon, Chemistry  
*Theoretical Study of Ligand Steric Effects in Homogeneous Catalysis*

**DIVISION OF SCIENCE & MATHEMATICS**

**LISTING OF POSTER PRESENTATIONS | 1:00 - 6:00PM**

In the Division of Science & Mathematics, the poster presentations have been divided into 5 groups. The initial judging of the poster presentations will take place between 1:00 and 3:00pm without the students being present. Beginning at 3:00pm, judges will meet with each student and discuss his or her presentation. From each group, the top 2 poster presentations will be selected. The second round of judging will consist of 10 poster presentations, the top 2 from each group.

**Group 1**

7
**Tyler Mattson**, Biological Sciences  
Faculty Mentor: Ryan Earley, Biological Sciences  
*Optimizing Closed Respirometry Using Dissolved Oxygen Probes in an Aquatic System*

8
**Molly Cook**, Biological Sciences  
Faculty Mentor: Ryan Earley, Biological Sciences  
*Do Acidified Environments Alter Aggressive Behavior in Mangrove Rivulus Fish?*

9
**Abbey Tadros**, Biological Sciences  
Samantha Dyroff, Chemistry  
Katie Kuykendall, Chemistry  
Rachel Honan, Chemistry  
Faculty Mentor: John Vincent, Chemistry  
*Trivalent chromium has no effect on delaying azoxymethane-induced colorectal cancer in FVB/NJ mice*

10
**Laura Canaday**, Biological Sciences  
Faculty Mentor: John Yoder, Biological Sciences  
*Exploring conserved enhancer activity of homologous wingless sequences between Drosophila melanogaster and virilis*
Rachel Hill, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
*The positive effects of exercising using the TreadWheel for Drosophila melanogaster*

Meredith Owens, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
*Impact of high fat larval diet and adulthood exercise in Drosophila melanogaster*

Carrie Fisher, Biological Sciences
Meagan Reif, Biological Sciences
Faculty Mentor: Stephen Secor, Biological Sciences
*Impact of Incubation Hypoxia on Digestive Energetics and Performance for the Snapping Turtle*

John Henderson, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
*Population variation in phenotypic robustness to dietary perturbation*

Tanner Hallman, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
*The Effect of Founder Selection on Drosophila melanogaster in a High-Fat Environment*

Brian McWilliams, Biological Sciences
Faculty Mentor: Matthew Jenny, Biological Sciences
*Age and Sex Effects on Learning and Memory in Zebrafish*

Andrew Davis, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
*The effects of a high fat diet on glucose concentration in Drosophila melanogaster*

Judson Wells, Biological Sciences
Faculty Mentor: Ryan Earley, Biological Sciences
*Probing the cues for outcrossing in the mangrove rivulus (Kryptolebias marmoratus)*

Alison Adams, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
*QTL affecting genotype-by-diet interactions of pupal body weight*

**Group 2**

Ayla Jones, Biological Sciences
Kellen Cowen, Biological Sciences
Faculty Mentor: Stephen Secor
*Energy Efficiencies of a Meal: Gains and Losses*
John Gambril, Biological Sciences
Margaret Guice, Biological Sciences
Kyera Aetkins, Biological Sciences
Faculty Mentor: Julia Cherry, Biological Sciences
*Effects of Restoration Technique and Sea Level Rise on Soil Characteristics of a Tidal Marsh at Weeks Bay, Alabama*

Taylor Peterson, Biological Sciences
Faculty Mentor: David Nikles, Chemistry
*The Synthesis of Gold Nanoparticles for Laser Triggered Chemotherapeutic Drug Release*

Rodger Moore, Biological Sciences
Beau Schaeffer, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
*A Novel Approach to Inducing Sleep Deprivation and Metabolic Syndrome in Drosophila melanogaster*

Sam Stanley, Biological Sciences
Bryan Martinez, Biological Sciences
Faculty Mentor: Kim Caldwell, Biological Sciences
*Investigation of dopamine neuron degeneration as a consequence of microbiome-derived bacteria*

Ketrick LaCoste, Biological Sciences
Hunter Whatley, Biological Sciences
Faculty Mentor: Stephen Secor, Biological Sciences
*Can Body Mass Index (BMI) Reliably Predict Body Composition? A Test Study with the Diamondback Water Snake*

Preston Hinkel, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
*Simulating Complex Genetic Evolution*

Samuel Scopel, Biological Sciences
Edward Griffin, Biological Sciences
Faculty Mentor: Guy Caldwell, Biological Sciences
*The role of neurotransmission in amyloid-beta neurotoxicity*

Zoe Nichols, Biological Sciences
Faculty Mentor: Stephen Secor, Biological Sciences
*Not all meals cost the same: natural variation in specific dynamic action*

Joshua Blackwell, Biological Sciences
Faculty Mentor: Janis O'Donnell, Biological Sciences
*Inhibition of the neuroinflammatory response confers increased survival in a Drosophila Parkinson’s disease model*

Melinda Russo, Biological Sciences
Faculty Mentor: Julie Olson, Biological Sciences
*Identification of the Presence of Cryptosporidium, Bacteroides, and Giardia in Rural Alabama Drinking Water*
Evan Chavers, Biological Sciences  
Faculty Mentor: Janis O’Donnell, Biological Sciences  
*Toxicological and Developmental Effects of Polyacrylic Acid Coated Iron Oxide Nanoparticles in Drosophila*

Elan Strange, Biological Sciences  
Faculty Mentor: Stevan Marcus, Biological Sciences  
*Phosphatidylethanolamine is essential for cytoprotective responses to the anticancer triterpenoid avicin G in the fission yeast, Schizosaccharomyces pombe*

**Group 3**

Hunter Dean, Biological Sciences  
Faculty Mentor: Janis O’Donnell, Biological Sciences  
*The Effects of Positively Charged Iron Oxide Nanoparticles on Survival and Fertility in Drosophila melanogaster*

Julia Murphy, Chemistry  
Faculty Mentor: David Dixon, Chemistry  
*The Reactions of CO2 with Metal Oxide Nanoclusters to Form Metal Carbonates*

Christian Palmer, Chemistry  
Faculty Mentor: Shanlin Pan, Chemistry  
*Nanoconstruction and Surface Modification of Iron Oxide Photoreactive Electrodes for Alternative Energy*

Casey Dalton, Chemistry  
Faculty Mentor: Shanlin Pan, Chemistry  
*Au NP electrode for enhanced hydrazine electrochemical oxidation*

Kristen Sabino, Chemistry  
Faculty Mentor: Shanlin Pan, Chemistry  
*Facile solution synthesis of Ag@Pt core-shell nanoparticles with dendritic Pt shells*

Sawyer Foyle, Chemistry  
Faculty Mentor: David Dixon, Chemistry  
*The Structure and Stability of Irx(CO)y(NHC)z Clusters*

Olivia Gobble, Chemistry  
Faculty Mentor: Kevin Shaughnessy, Chemistry  
*Palladium-Catalyzed Chemo- and Regioselective Cross-Dimerization of Two Terminal Alkynes*

Shanna Phillips, Chemistry  
Faculty Mentor: Stephen Woski, Chemistry  
*Novel Fluorescent Nucleotides*
Lynda Truong, Chemistry
Faculty Mentor: Stephen Woski, Chemistry
Investigation of Cyanocarbazole Derivatives as Universal Base Candidates

Grace Hall, Chemistry
Faculty Mentor: Martin Bakker, Chemistry
Flow Properties of Hierarchically Porous Materials

Katlyn Hughes, Chemistry
Faculty Mentor: Elizabeth Papish, Chemistry
The Study of Ru(II) Complexes as Anticancer Agents

Calvin Muth, Chemistry
Faculty Mentor: Patrick Frantom, Chemistry
Kinetic Investigation of a Conserved Active Site Glutamine residue in a-Isopropylmalate Synthase from Mycobacterium tuberculosis

Renee Stullich, Chemistry
Adam Shipley, Chemistry
Faculty Mentor: Kevin Shaughnessy, Chemistry
Novel air-stable palladium precatalysts and their reactivity in the Suzuki-Miyaura Reaction

Group 4

Rachael Kress, Chemistry
Abigail Paulson, Chemistry
Dylan Pladers, Chemistry
Faculty Mentor: Dave Nikles, Chemistry
Building a Targeted, Thermally Triggered Drug Delivery System for Cancer Cells

Qamar Tejani, Chemistry
Kieran Bhattacharya, Chemistry
Faculty Mentor: Shanlin Pan, Chemistry
Photoelectrochemical reduction using CuBi2O4

Cody Savage, Chemistry
Faculty Mentor: David Dixon, Chemistry
Gas-Phase Acidities of Phosphorylated Dipeptides

William Jackson, Chemistry
Faculty Mentor: David Dixon, Chemistry
Gas-Phase Acidities of Acid-Substituted Dipeptides

Jesse Gettinger, Chemistry
Faculty Mentor: David Nikles, Chemistry
Synthesis and Characterization of Block Copolymers for a Magnetically Triggered Drug Delivery System
Clarence Mullins, Chemistry  
Faculty Mentor: Kevin Shaughnessy, Chemistry  
*Hydrogenation Reactions with a Novel Palladium on Carbon Catalyst*

Ansley Griffith, Geological Sciences  
Collin Williams, Geological Sciences  
Faculty Mentor: Fred Andrus, Geological Sciences  
*Preliminary multi-axial growth analysis of Panama rhodoliths for paleoclimate reconstructions*

John Deeble, Mathematics  
Faculty Mentor: Jeffrey Lozier, Biological Sciences  
*Evolutionary Parameter Inference In A Bumble Bee Complex*

Hannah Wright, New College  
Julie Gyurgyik, New College  
Faculty Mentor: Michael Steinberg, New College  
*Avian Diversity and Suburban Forests*

Shaun Hogan, Physics and Astronomy  
Faculty Mentor: Conor Henderson, Physics and Astronomy  
*Searching for Physics Beyond the Standard Model With the CMS Experiment*

Kevin Battles, Physics and Astronomy  
Faculty Mentor: Jeremy Bailin, Physics and Astronomy  
*Galactic Warps in Smoothed-Particle Hydrodynamic Simulations*

Jordan Fuhrman, Physics and Astronomy  
Faculty Mentor: Paulo Araujo, Physics and Astronomy  
*Metallic Tip Production For Near-Field Raman Spectroscopy*

Matthew Leeds, Physics and Astronomy  
Faculty Mentor: Jeremy Bailin, Physics and Astronomy  
*Synthetic Images of Simulated Galaxies*

**Group 5**

Carl Schroeder, Psychology  
Faculty Mentor: Tricia Witte, Human Development and Family Studies  
*The Effect of Education on Stigmas of Addicts in a University Setting*

Amanda Nelson, Psychology  
Faculty Mentor: Alan Blum, Community Health Sciences  
*The "ABCD's" of E-Cigarettes*
Anna Lynd, Kinesiology  
Faculty Mentor: Mark Richardson, Kinesiology  
*Estimated Energy Expenditure During A Home-Based DVD Exercise Program*

Hayden Arnold, Chemical and Biological Engineering  
Faculty Mentor: David Dixon, Chemistry  
*Initial Steps in the Formation of Plutonium(IV) Oxide and Hydroxide Nanoclusters*

Brian Goodell, Chemical and Biological Engineering  
Faculty Mentor: David Nikles, Chemistry  
*Synthesis of MnBi Nanoparticles for High-Energy Permanent Magnets*

Kindle Williams, Chemical and Biological Engineering  
Faculty Mentor: Stephen Woski, Chemistry  
*Synthesis of Molecular Electronic Components for Self-Assembly onto Metal Electrodes*

Grant Smith, Chemical and Biological Engineering  
Nick Van Otterloo, Biological Sciences  
Faculty Mentor: Stephen Secor, Biological Sciences  
*Diverging Allometries in the Skeletal Mass of Sexually Dimorphic Snakes*

Jaron Nix, Chemical and Biological Engineering  
Faculty Mentor: Laura Reed, Biological Sciences  
*The Effect of Glucose Level and Diet on Gene Expression*

Austin Pinkerton, Computer Science  
Faculty Mentor: Eben Braodbent, Geography  
*Automated Tree-Crown Delineation Using Visual 3D Imagery Aquired From UAVs and Photogrammetric Analyses*

Jason Britchkow, Computer Science  
Faculty Mentor: Conor Henderson, Physics and Astronomy  
*Configuration of an Open Science Grid Tier 3 Computing Cluster for use as part of the CMS Experiment at CERN*

Michael Rogers, Mechanical Engineering  
Faculty Mentor: Shanlin Pan, Chemistry  
*Fluorescence-Intermittence of Single CdSe@ZnS Semiconductor Quantum Dots on Ag Nanowire Substrate*
### DIVISION OF SOCIAL SCIENCES

### SCHEDULE OF ORAL PRESENTATIONS

Oral presentations in the Division of Social Sciences are in 1 group that will be held in the Smith Board room at the Bryant Conference Center. Judges will select the winning oral presentations; other presentations may be selected for Honorable Mention.

#### Smith Board Room

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Department</th>
<th>Faculty Mentor</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Lauren Curtner-Smith</td>
<td>Human Development and Family Studies</td>
<td>Mary Elizabeth Curtner-Smith</td>
<td>Corporal punishment, a comedy of errors: The case against corporal punishment as viewed through media and editorial cartoons</td>
</tr>
<tr>
<td>9:20</td>
<td>Alexis Williams</td>
<td>Computer Science</td>
<td>Laura Myers</td>
<td>Improving Weather Warning Communication for the Public</td>
</tr>
<tr>
<td>9:40</td>
<td>Gwen Gardiner</td>
<td>Psychology</td>
<td>Alexa Tullett</td>
<td>Individual Differences in Perception and Systems of Belief: A Cross-Cultural Comparison Between Indian and American College Students</td>
</tr>
<tr>
<td>10:00</td>
<td>Leigh Terry</td>
<td>Political Science</td>
<td>Douglas Gibler</td>
<td>Intradispute Bargaining in Militarized Interstate Disputes</td>
</tr>
<tr>
<td>10:20</td>
<td>Sarah Sawyer</td>
<td>Political Science</td>
<td>Nicholas Kerr</td>
<td>Traditional Law and Women in sub-Saharan Africa</td>
</tr>
<tr>
<td>10:40</td>
<td>Desiree Foy</td>
<td>New College</td>
<td>Ellen Spears</td>
<td>Creativity &amp; Expression</td>
</tr>
<tr>
<td>11:00</td>
<td>Taylor Lawhon</td>
<td>Anthropology</td>
<td>Ian Brown</td>
<td>An Investigation of Caddo Salt Production at Drake’s Salt Works</td>
</tr>
<tr>
<td>11:20</td>
<td>Daniel Klein</td>
<td>Computer Science</td>
<td>Joseph Smith</td>
<td>A Web-Based Tool For Exploring Supreme Court Opinions</td>
</tr>
</tbody>
</table>
DIVISION OF SOCIAL SCIENCES

LISTING OF POSTER PRESENTATIONS | 1:00 - 6:00PM

In the Division of Social Sciences, the presentations have been divided into 4 groups. The initial judging of the poster presentations will take place between 1:00 and 3:00pm without the students being present. Beginning at 3:00pm, judges will meet with each student and discuss his or her presentation. From each group, the top 2 poster presentations will be selected. The second round of judging will consist of 8 poster presentations, the top 2 from each group.

Group 1

70
Ellie Ott, American Studies
Faculty Mentor: Theodore Tomeny, Psychology
Parent Marital Status and Adjustment in Typically-Developing Siblings of Children with Autism Spectrum Disorder

71
Melinda Carr, Anthropology
Ashley Daughtery, Anthropology
Faculty Mentor: Christopher Lynn, Anthropology
A Burning Question: Fireside Relaxation

72
Cole Cecchini, Biological Sciences
Faculty Mentor: Debra McCallum, Institute for Social Science Research
Investigating the use of energy drinks at the University of Alabama

73
Elizabeth Henderson, Communicative Disorders
Faculty Mentor: Memorie Gosa, Communicative Disorders
Prevalence of feeding difficulty in children with suspected Autism Spectrum Disorder in Alabama

74
Aisha Rogers, Communicative Disorders
Faculty Mentor: Anthony Buhr, Communicative Disorders
Moving While Speaking

75
William Alexander, Communicative Disorders
Faculty Mentor: Angela Barber, Communicative Disorders
Analysis of parent competence who have children with ASD through Project ImPACT intervention

76
Sarah Strickland, Communicative Disorders
Faculty Mentor: Angela Barber, Communicative Disorders
Autism Study

77
Josh Mullins, English
Sierra Wilson, Political Science
Sarah Bates-Barry, Economics, Finance and Legal Studies
Faculty Mentor: Dana Patton, Political Science
The LGBTQ Movement and Issue Prioritization
Samuel Yang, Geography  
Faculty Mentor: Anne Williamson, Political Science  
The Impact of Board Governance on State Housing Finance Agency Policy Responses

Amy Ackerman, New College  
Faculty Mentor: Martina Thomas, New College  
Civic Engagement and the Development of Collaboration Between Community Organizations

Alexandra Moffitt, Political Science  
Rachel Palmer, Political Science  
Faculty Mentor: Dana Patton, Political Science  
Women and Political Representation in Congress

Nicole McFarland, Political Science  
Bethany Turner, Political Science  
Olympia Karageorgiou, Political Science  
Sex Education and Attitudes About Sex

Group 2

Olivia Atkinson, Political Science  
Tiana Rivas, Political Science  
Faculty Mentor: Dana Patton, Political Science  
Gender Bias in Politics

Jessica Gandy, Political Science  
Scott Whitehouse, Political Science  
Faculty Mentor: Dana Patton, Political Science  
Perception of Women in Non-Tradiional Leadership Roles

Jessica Goodman, Political Science  
Siobhan Greene, Political Science  
Faculty Mentor: Dana Patton, Political Science  
College Students' Knowledge of Domestic Violence

Samantha Reale, Political Science  
Kenzi Farish, Political Science  
Emily Kotroco, Political Science  
Faculty Mentor: Dana Patton, Political Science  
The Correlation Between News Reporters and their Perceived Level of Education

Paul Mora, Political Science  
Maverick Flowers, Political Science  
Laura Carr, Political Science  
Faculty Mentor: Dana Patton, Political Science  
Gender and Voter Confidence in Politics
Spencer Yeamans, Political Science
AlexandraBushelli, Political Science
SarahSheahan, Political Science
Faculty Mentor: Dana Patton, Political Science

Gender Gap in Opinions on Same-Sex Relationship Rights

Hashuluv Watson, Political Science
CharlotteGivhan, Political Science
Molly O'Keefe, Political Science
Faculty Mentor: Danna Patton, Political Science

The Effects of Gender on Career Value

Sara Barnes, Political Science
ShakristalWilliams, Political Science
Faculty Mentor: Dana Patton, Political Science

Voting, Gender, and Partisan Politics

Seth Cottles, Political Science
ChrisReardon, Political Science
ChristinJohnson, Political Science
Faculty Mentor: Dana Patton, Political Science

Single Sex Schools

Ann Durand, Political Science
Faculty Mentor: Dana Patton, Political Science

An In Depth Look Into the Gender Pay Gap and Proposed Solutions

Elizabeth Rogers, Political Science
Faculty Mentor: Nicholas Kerr, Political Science

Gender Equality in Africa: An Analysis of the Gender Equality in African Social and Political Structures

Olivia Knott, Political Science
JosiahTesfaye, Political Science
Faculty Mentor: Nicholas Kerr, Political Science

Voter Registration and Public Trust in Nigerian Elections

Group 3

Lauren Anderson, Political Science
Faculty Mentor: Dana Patton, Political Science

Family Leave Policy

Sydney Smith, Political Science
Faculty Mentor: Dana Patton, Political Science

Social Security - A timely change for an aging policy
Allison Artman, Political Science
Faculty Mentor: Dana Patton, Political Science
Increasing financial literacy among America's Youth

Madison Santana, Psychology
Faculty Mentor: Kristina McDonald, Psychology
The Mediating Effects of Parental Feedback on Parent's Implicit Theories and Children's Social Attributions

Margaret Holland, Psychology
Faculty Mentor: Joan Barth, Institute for Social Science Research
The Influence of Peer Support on Self-Efficacy in Math and Science

Jordana Baraad, Psychology
Faculty Mentor: Matthew Jarrett, Psychology
Attention-Deficit/Hyperactivity Disorder (ADHD) and Mindfulness

Amber Wright, Psychology
Faculty Mentor: Tricia Witte, Human Development and Family Studies
Why do We Stigmatize Substance Users?

Kayla Caine, Psychology
Madeline Schweers, Communicative Disorders
Faculty Mentor: Tricia Witte, Human Development and Family Studies
The Relationship between Dissociation and Sexual Assault in College Students

Young Kim, Psychology
Faculty Mentor: Theodore Tomeny, Psychology
Depression, Anxiety, and Stress in Adult Siblings of Individuals with Autism Spectrum Disorder: The Role of Aid and Sibling Relationship Attitudes

Kolton Weems, Psychology
Emily Ingram, Psychology
Faculty Mentor: Jeffrey Parker, Psychology
Influence of Coolness and Social Goals on Classroom Support, Engagement, and Belonging

Emily Pickle, Psychology
Faculty Mentor: Ansley Gilpin, Psychology
The Relationship between Social Anxiety and Emotion Identification Skills

Wesley Korfe, Psychology
Faculty Mentor: Beverly Thorn, Psychology
Catastrophizing, Vulnerability, and Big Five Personality Traits as Predictors of Pain Expression in College Students
Group 4

106
**Audrey Gunn, Psychology**
Faculty Mentor: James Hamilton, Psychology
*Rejection Makes Me Sick: Rejection Sensitivity Increases Symptom Reporting for Those with Insecure Attachment*

107
**Molly Cory, Psychology**
Trent Robinson, Psychology
Faculty Mentor: Ed Merrill, Psychology
*Getting Lost in Outdoor Environments*

108
**Kaitlin Burchett, Psychology**
Faculty Mentor: John Lochman, Psychology
*Gender Differences in Social Information-Processing as related to Different Functions of Aggression in Pre-Adolescent Youth*

109
**Hannah Armstrong, Psychology**
Faculty Mentor: Stanley Brodsky, Psychology
*Attractiveness Bias Effect on Expert Witness Credibility and Juror Decisions*

110
**Lanora Lutes, Psychology**
Emily Headley, Psychology
Faculty Mentor: Dana Patton, Psychology
*The Role of Gender Stereotypes and Cultural Stigmas in Workplace Discrimination and Pay Equity*

111
**Tyler Jones, Kinesiology**
Faculty Mentor: Beverly Thorn, Psychology
*Relationships Among Written Pain Descriptions and Perceived Social Support Variables in College Students*

112
**Husam Ali, Chemical and Biological Engineering**
Faculty Mentor: Nicole Powell, Psychology
*Analysis of Aggression and Popularity in Children*

113
**Lauren Wood, Computer Science**
Faculty Mentor: Steve Burdette, Computer Science
*Inspection Into the Effectiveness of Graduated Licenses*

114
**Juan Carrasquilla, Mechanical Engineering**
Faculty Mentor: Andre Souza, Psychology
*Reasoning in a Foreign Language: Decision-making Biases in Bilingual Adults*

115
**Amy Hase, Human Development and Family Studies**
Faculty Mentor: Nicole Powell, Psychology
*Reducing the Positive Illusory Bias: An Analysis of the Value Affirmation Task*
Elena Thompson, Nursing  
Faculty Mentor: Alan Blum, Community Health Sciences  
The Role of Schools and Universities in Addressing the Obesity Crisis: An Examination of Contradictions

CULVERHOUSE COLLEGE OF COMMERCCE

SCHEDULE OF ORAL PRESENTATIONS

Rast A Room

2:20  
Jason Arterburn, Economics, Finance and Legal Studies  
Faculty Mentor: Peter Brummund, Economics, Finance and Legal Studies  
Racial Homophily and Wage Discrimination: Evidence from Brazil

3:20  
Siddhartha (Neil) Chakraborti, Economics, Finance and Legal Studies  
Faculty Mentor: Robert Reed, Economics, Finance and Legal Studies  
Can We See Clearly Now? The Effect of Central Bank Transparency on the Predictability of Monetary Policy

LISTING OF POSTER PRESENTATIONS  |  8:00 - 11:00AM

1  
Katherine O’Connor, Economics, Finance and Legal Studies  
Faculty Mentor: Paan Jindapon, Economics, Finance and Legal Studies  
Persuasive Communication when Sender Incentives are Uncertain

2  
Jeffrey Wysong, Mathematics  
Faculty Mentor: Glenn Richey, Management and Marketing  
Supply Chain Transparency/Big Data

3  
Derek Carter, Economics, Finance and Legal Studies  
Faculty Mentor: Peter Brummund, Economics, Finance and Legal Studies  
Comparative Economic Analysis of Alabama’s Black Belt Region

4  
Allexa Gardner, Economics, Finance and Legal Studies  
Faculty Mentor: Paan Jindapon, Economics, Finance and Legal Studies  
Impact of Genetically Modified Crops on Trade and Individual Welfare

COLLEGE OF COMMUNICATION & INFORMATION SCIENCES

SCHEDULE OF ORAL PRESENTATIONS

Nichols Room

2:00  
Samantha Rudelich, Management and Marketing  
Faculty Mentor: Meredith Bagley, Communication Studies  
Kanye West’s Representation of Women
2:20  
Candice Ji, Advertising and Public Relations  
Joel Hafer, Advertising and Public Relations  
Larissa Magera, Advertising and Public Relations  
Faculty Mentor: Teri Henley, Advertising and Public Relations  
*Advancing Digital Ordering Experience for Pizza Hut in Quick-Service Pizza Restaurant Industry*

2:40  
Joseph Kruszka, Advertising and Public Relations  
Faculty Mentor: Dylan Mclemore, Journalism  
*Examining the Fabrication of War Reporting*

3:00  
Ariel Worthy, Journalism  
Faculty Mentor: George Daniels, Journalism  
*Black Men: A Dire Need in Education*

3:20  
Rahni Argo-Bryant, Telecommunications and Film  
Faculty Mentor: Sim Butler, Communication Studies  
*The Culture of Comic-Con: Planning as an Extension*

3:40  
Ben Flores, Communication Studies  
Faculty Mentor: Katheryn Seigfried-Spellar, Criminal Justice  
*Masks and Machetes: The Arthur Pendragon Case Study*

4:00  
Haley Smith, Communications Studies  
Faculty Mentor: Meredith Bagley, Communication Studies  
*Analysis of "Travelin' Soldier" Through Narrative Criticism*

**LISTING OF POSTER PRESENTATIONS**  |  **8:00 - 11:00AM**

5  
Samuel Evans, Advertising and Public Relations  
Keelin McNamara, Advertising and Public Relations  
Amanda Hydrick, Advertising and Public Relations  
Chandler Dare, Advertising and Public Relations  
Ashley Robbins, Advertising and Public Relations  
Faculty Mentor: Yonghwan Kim, Telecommunication and Film  
*Cell Phone Usage and Relationship Satisfaction*

6  
Demi Hammond, Communication Studies  
Faculty Mentor: Darrin Griffin, Communication Studies  
*Hey Batter Batter...: Nonverbal Communication at the Plate*

7  
Kate Laird, Advertising and Public Relations  
Faculty Mentor: Meredith Bagley, Communication Studies  
*Cluster Criticism of Obama's Turn The Page Speech*
8
**Katie Coward**, Advertising and Public Relations
Faculty Mentor: Susan Daria, Advertising and Public Relations

*Hunger Is No Joke & Salacia*

9
**Jessica Moore**, Advertising and Public Relations
Faculty Mentor: Yonghwan Kim, Telecommunication and Film

*Smart Phone Use Among Students at UA: Types of Use, Convenience vs. Distraction, and Security Efficiency*

10
**Daniel Hughes**, Information Systems, Statistics and Management Science
Faculty Mentor: Darrin Griffin, Communication Studies

*Werther effect in active shooter events? Examining potential copycat behavior*

11
**Kathryn Gallagher**, American Studies
Faculty Mentor: Karla Gower, Advertising and Public Relations

*The Effect of Social Media on Crisis Management*

12
**Kelly Ward**, Journalism
Faculty Mentor: Kim Bissell, Journalism

*Gender in Sports Media: A Look into How the Media Covers Injuries in Male and Female Athletes*

13
**Chloe Hill**, Culverhouse School of Accountancy
Faculty Mentor: Chip Brantley, Journalism

*Downstream: A Year-Long Look at Alabama's Rivers*

14
**Liz Alley**, Management and Marketing
Faculty Mentor: Chip Brantley, Journalism

*Call from Selma*

**COLLEGE OF EDUCATION**

**SCHEDULE OF ORAL PRESENTATIONS**

**Rast A Room**

9:00
**Dustin Atchison**, History
Faculty Mentor: Cory Callahan, Curriculum and Instruction

*The Exploration of History in the Elementary and Middle School Classroom: Teaching History to Gifted Students*

9:20
**Bethany Carter**, Political Science
Faculty Mentor: Wayne Urban, Educational Leadership, Policy and Technology Studies

*Classical Education: Historical Roots and Modern Revival*

9:40
**Megan Cole**, English
Faculty Mentor: Karen Spector, Curriculum and Instruction

*Secondary Teacher Preparation and Reported Self-Efficacy*
10:20  
**Karen Ekeh**, Geography  
Faculty Mentor: Sara Tomek, Educational Studies in Psychology, Research Methodology and Counseling  
*Gender and Achievement: Are boys falling behind?*

10:40  
**Anna Forrister**, Anthropology  
Faculty Mentor: Philo Hutcheson, Educational Leadership, Policy and Technology Studies  
*50 Years of All Deliberate Speed*

11:00  
**Katherine June**, Kinesiology  
Faculty Mentor: Margaret Stran, Kinesiology  
*Accessible fitness: an adapted exercise program*

11:20  
**Ashley Seiss**, English  
Faculty Mentor: Kathy Wetzel, Special Education and Multiple Abilities  
*Perceived Effectiveness of a Gifted Summer Enrichment Program*

**LISTING OF POSTER PRESENTATIONS | 8:00 - 11:00AM**

15  
**Eric Roddy**, Philosophy  
Faculty Mentor: Rick Houser, Educational Studies in Psychology, Research Methodology and Counseling  
*Differences in Neural Correlates, Physiological Measures, and Sensation Seeking in High Impulse and Low Impulse Individuals During High Stimulus Virtual Reality*

16  
**Meghan Fay**, Curriculum and Instruction  
Faculty Mentor: Melisa Fowler, Curriculum and Instruction  
*How do my teaching actions influence my students' learning?*

17  
**Cameron Lyons**, New College  
Faculty Mentor: Becky Atkinson, Educational Leadership, Policy and Technology Studies  
*The Effect of Elective Course Choice on Postsecondary Aspirations*

18  
**Josh Oriez**, Biological Sciences  
Faculty Mentor: Mary Givens, Educational Leadership, Policy and Technology Studies  
*A Description of the Impact of Parental Involvement on 4th and 5th Grade Testing in an After-School Tutoring Program*

19  
**Megan Smith**, Political Science  
Faculty Mentor: Stacy Hughey-Surman, Educational Studies in Psychology, Research Methodology and Counseling  
*Modern Segregation Academies: Myth or Reality? Understanding Racial Composition of Private Schools in the Alabama Black Belt*

20  
**Megan Davidson**, Curriculum and Instruction  
Faculty Mentor: Melisa Fowler, Curriculum and Instruction  
*Victorious Through Sight Word Recognition*
COLLEGE OF ENGINEERING

LISTING OF POSTER PRESENTATIONS | 8:00 - 11:00AM

21 _Rob Grady_, Civil, Construction and Environmental Engineering  
Faculty Mentor: Zheng O'Neill, Mechanical Engineering  
*Development of an Energy Model for UA Residential Hall*

22 _Sarah McFann_, Chemical and Biological Engineering  
Faculty Mentor: Margaret Liu, Chemical and Biological Engineering  
*Metabolic flux model to optimize n-butanol production by Clostridium tyrobutyricum*

23 _Olivia Byrd_, Electrical and Computer Engineering  
Faculty Mentor: Dawen Li, Electrical and Computer Engineering  
*High Performance Organic Thin Film Transistor Fabrication via Temperature Gradient*

24 _Benjamin Romano_, Computer Science  
Faculty Mentor: Brandon Dixon, Computer Science  
*Visualizing Weather Data*

25 _Dylan Quick_, Mechanical Engineering  
Jamie Moon, Mechanical Engineering  
Alex Larson, Electrical and Computer Engineering  
Faculty Mentor: Eben Broadbent, Geography  
*The design and construction of a fully autonomous, lightweight and portable unmanned aerial system to support rescue operations*

26 _Rachel Ostrow_, Mechanical Engineering  
Faculty Mentor: Beth Todd, Mechanical Engineering  
*Instrumentation of an Orthotic Boot*

27 _Grace Silverstein_, Mechanical Engineering  
Faculty Mentor: Alexey Volkov, Mechanical Engineering  
*Numerical Modeling of Laser-Induced Plasma Plume Expansion*

28 _Samantha Tilson_, Chemical and Biological Engineering  
Faculty Mentor: Yonghyun Kim, Chemical and Biological Engineering  
*The Effect of Y-27632 on the Propagation of Glioblastoma Stem Cells*

29 _Justine Panian_, Chemical and Biological Engineering  
Faculty Mentor: Margaret Liu, Chemical and Biological Engineering  
*The Development of Serum-free, Suspension CHO Cell Culture Process for Recombinant Therapeutic Protein*
30  
**Madison Beck**, Chemical and Biological Engineering  
Faculty Mentor: Marco Bonizzoni, Chemistry  
*Towards immobilizing polymeric chemosensors on a solid surface*

31  
**Matthew Fister**, Aerospace Engineering and Mechanics  
Faculty Mentor: John Baker, Aerospace Engineering and Mechanics  
*Application of Particle Swarm Optimization to Theoretical Rocket Performance*

32  
**Michael Dunn**, Civil, Construction and Environmental Engineering  
Faculty Mentor: Alexander Hainen, Civil, Construction and Environmental Engineering  
*Feasibility of coordinated traffic signal control in low-speed signalized corridors: a case study on the campus of The University of Alabama*

33  
**Michael Ikegami**, Electrical and Computer Engineering  
Faculty Mentor: Dawen Li, Electrical and Computer Engineering  
*Optimization of Perovskite Solar Cells*

34  
**James Henderson**, Civil, Construction and Environmental Engineering  
Seth Tibbs, Civil, Construction and Environmental Engineering  
Zack Wells, Civil, Construction and Environmental Engineering  
Ana Santos Rabelo De Melo, Civil, Construction and Environmental Engineering  
Mallory Mitchell, Civil, Construction and Environmental Engineering  
Jacob Howell, Civil, Construction and Environmental Engineering  
Faculty Mentor: Pauline Johnson, Civil, Construction and Environmental Engineering  
*City of Tuscaloosa Water Audit*

35  
**Matthew Grybas**, Mechanical Engineering  
Faculty Mentor: Paul Hubner, Aerospace Engineering and Mechanics  
*Charge Capacity of Piezoelectric Membrane Wings*

36  
**Justin Magrath**, Chemical and Biological Engineering  
Faculty Mentor: Yonghyun Kim, Chemical and Biological Engineering  
*Effect of Salinomycin on Glioblastoma Cancer Stem Cells*

37  
**Brandon Pritchett**, Civil, Construction and Environmental Engineering  
Faculty Mentor: Shahrooz Amidi, Civil, Construction and Environmental Engineering  
*Long-term Durability and Environment-assisted Debonding between UHPC and Concrete Substrate*

38  
**Matthew Blazer**, Electrical and Computer Engineering  
Houston Lamb, Electrical and Computer Engineering  
Julius Brown, Electrical and Computer Engineering  
Faculty Mentor: Yang-Ki Hong, Electrical and Computer Engineering  
*Reconfigurable Miniature Ferrite Antenna*
Ashley Sutton, Civil, Construction and Environmental Engineering  
Faculty Mentor: Eric Giannini, Civil, Construction and Environmental Engineering  
*Evaluation of the Autoclaved Concrete Prism Test in Determining Aggregate Reactivity*

Mario Maggio, Aerospace Engineering and Mechanics  
Faculty Mentor: Richard Branam, Aerospace Engineering and Mechanics  
*Rocket Engine Cycle Optimization*

John Roveda, Chemical and Biological Engineering  
Faculty Mentor: Jason Bara, Chemical and Biological Engineering  
*Design of Bisimidazole Monomers for Step-Growth and Radical Polymerizations*

Anna Crumbley, Chemical and Biological Engineering  
Matthew Pate, Chemical and Biological Engineering  
Jianfa Ou, Chemical and Biological Engineering  
Faculty Mentor: Margaret Liu, Chemical and Biological Engineering  
*Release bottleneck in Clostridium tyrobutyricum metabolic pathway with application for butanol production*

Andrew Raddatz, Chemical and Biological Engineering  
Faculty Mentor: Yonghyun Kim, Chemical and Biological Engineering  
*Identifying a unique stem cell marker for Acute Myeloblastic Leukemia*

Alex Jenkins, Chemical and Biological Engineering  
Faculty Mentor: Jason Bara, Chemical and Biological Engineering  
*3-D Printing for CO2 Capture and Chemical Engineering Design*

Moriah Smoot, Metallurgical and Materials Engineering  
Ana Diniz Duarte Belem, Metallurgical and Materials Engineering  
Faculty Mentor: Subhadra Gupta, Metallurgical and Materials Engineering  
*Optimization of Co/Pd Multilayers Patterning by Block Copolymer Templating*

Thomas Hemmings, Mechanical Engineering  
Ryan Nicholas, Mechanical Engineering  
Faculty Mentor: Paul Allison, Mechanical Engineering  
*Spatially correlated nanoindentation, EDX characterization and distribution of IMCs in friction stir welded AL-to-Mg alloys*

Christopher Chockley, Computer Science  
Jonathan Orbeck, Computer Science  
Faculty Mentor: Jeffrey Carver, Computer Science  
*The Analysis of Code Review in Open-Source and Commercial Software Development Environments*

Tarif Haque, Computer Science  
Faculty Mentor: Xiaoyan Hong, Computer Science  
*Named Data Networking for Underwater Wireless Sensor Networks*
Eric Burke, Mechanical Engineering
Faculty Mentor: Marcus Ashford, Mechanical Engineering
Thermodynamic Property Analysis to Reduce Vapor Emissions in Automobiles

Haley Loftis, Electrical and Computer Engineering
Faculty Mentor: Andrew Lemmon, Electrical and Computer Engineering
Feasibility of Indoor Solar Energy Harvesting

Gatlin LaRochelle, Electrical and Computer Engineering
Nikolaus Luhrs, Electrical and Computer Engineering
Faculty Mentor: Yang-Ki Hong, Electrical and Computer Engineering
Remote Detection and Automated Identification of Audio Alarms

Mark Koren, Aerospace Engineering and Mechanics
Faculty Mentor: Amy Lang, Aerospace Engineering and Mechanics
The Effects of Butterfly Scale Inspired Geometries on Boundary Layer Growth

Elizabeth Tillotson, Mechanical Engineering
Faculty Mentor: Marcus Ashford, Mechanical Engineering
Accuracy of Automotive Sensing

Ryan Nicholas, Mechanical Engineering
Thomas Hemmings, Mechanical Engineering
Faculty Mentor: Paul Allison, Mechanical Engineering
Nanomechanical Properties of Alkali-Activated Fly Ash (Geopolymer) Exposed to Elevated Temperatures

Connor Smith, Electrical and Computer Engineering
Faculty Mentor: Susan Burkett, Electrical and Computer Engineering
Solder Based Self Assembly Method For 3D Integration Using Polyacryl Acid

Huston Rogers, Electrical and Computer Engineering
Faculty Mentor: Paul Puzinauskas, Mechanical Engineering
GT Suite Simulation of a Caterpillar C9

Megan Hathcock, Mechanical Engineering
Faculty Mentor: Paul Puzinauskas, Mechanical Engineering
Real-Time Dynamometer Control Optimization

Gregory Cabot, Electrical and Computer Engineering
Faculty Mentor: Sushma Kotru, Electrical and Computer Engineering
Electrical Properties of Metal/Ferroelectric/metal Thin Film Capacitors
John Hunt, Mechanical Engineering  
Faculty Mentor: Keith Williams, Mechanical Engineering  
Controlled Distribution of Ionic Liquids

Michael Carton, Metallurgical and Materials Engineering  
Faculty Mentor: Subhadra Gupta, Metallurgical and Materials Engineering  
Study of Heusler growth with a focus on MTJ applications

Zach Flynn, Mechanical Engineering  
Faculty Mentor: Vinu Unnikrishnan, Aerospace Engineering and Mechanics  
Experimental Modeling of Biofidelic Tissue Phantoms for Surgical Applications

Robert Ramsey, Aerospace Engineering and Mechanics  
Faculty Mentor: Vinu Unnikrishnan, Aerospace Engineering and Mechanics  
Evolutionary Optimization of Aircraft Landing Gears

Simon Bedoya, Civil, Construction and Environmental Engineering  
Faculty Mentor: Mark Elliott, Civil, Construction and Environmental Engineering  
Tailored, Scalable, and Modular Solutions: Integrating novel sources with UV LEDs for Safe Water

Hannah McCready, Chemical and Biological Engineering  
Faculty Mentor: Dawen Li, Electrical and Computer Engineering  
Effect of the Functional Group on the Performance of Small Molecule Organic Solar Cells

Adrika Venkatanarayanan, Metallurgical and Materials Engineering  
Faculty Mentor: Nitin Chopra, Metallurgical and Materials Engineering  
Stimuli-Responsive Hydrogels with Nanoscale Heterostructures

COLLEGE OF HUMAN ENVIRONMENTAL SCIENCES

LISTING OF POSTER PRESENTATIONS  |  8:00 - 11:00AM

Hannah Barnett, Human Nutrition and Hospitality Management  
Carson Parker, Human Nutrition and Hospitality Management  
Pam Morrison, Human Nutrition and Hospitality Management  
Meg Patterson, Human Nutrition and Hospitality Management  
Allison Franklin, Human Nutrition and Hospitality Management  
Amy Rushing, Human Nutrition and Hospitality Management  
Faculty Mentor: Lori Greene, Human Nutrition and Hospitality Management  
Walking as an Intervention for Hypertension: A Review

Demi Eckhoff, Human Nutrition and Hospitality Management  
Faculty Mentor: Amy Ellis, Human Nutrition and Hospitality Management  
Feeding Tube Intervention in Patients with Duchenne Muscular Dystrophy: A Literature Review
Matthew Rowell, Health Science  
Faculty Mentor: Lori Turner, Health Science  
*West Alabama Food Bank*

Jamie Collins, Human Nutrition and Hospitality Management  
Melissa Dever, Human Nutrition and Hospitality Management  
Lauren Foreman, Human Nutrition and Hospitality Management  
Caroline Grosch, Human Nutrition and Hospitality Management  
Darby Prescott, Human Nutrition and Hospitality Management  
Leigh Taylor, Human Nutrition and Hospitality Management  
Faculty Mentor: Lori Greene, Human Nutrition and Hospitality Management  
*Food perception of low-income individuals and its impact on the purchasing and consumption habits of healthy and unhealthy foods: A Review*

Bria Robinson, Clothing, Textiles and Interior Design  
LaQuoya Robinson, Clothing, Textiles and Interior Design  
Elle Darby, Clothing, Textiles and Interior Design  
Faculty Mentor: Marcy Koontz, Clothing, Textiles and Interior Design  
*Le Art de la Mode*

Katherine Jordan, Human Nutrition and Hospitality Management  
Caroline Brantley, Human Nutrition and Hospitality Management  
Caroline Marsh, Human Nutrition and Hospitality Management  
Katie Bain, Human Nutrition and Hospitality Management  
Chelsea LeBlanc, Human Nutrition and Hospitality Management  
Faculty Mentor: Lori Greene, Human Nutrition and Hospitality Management  
*Nutrition Education in Low-income School-aged Children: A Review*

Bailey Trott, Health Science  
Andrew Starkey, Health Science  
Faculty Mentor: Lori Turner, Health Science  
*PRIDE of Tuscaloosa*

Sarah Keller, Human Nutrition and Hospitality Management  
Heather Jackson, Human Nutrition and Hospitality Management  
Ryan St. John, Human Nutrition and Hospitality Management  
Mary Wood, Human Nutrition and Hospitality Management  
Faculty Mentor: Lori Greene, Human Nutrition and Hospitality Management  
*Fruit and Vegetable Consumption among Preschoolers: A Review*

Carson Parker, Human Nutrition and Hospitality Management  
Katherine Jordan, Human Nutrition and Hospitality Management  
Caroline Brantley, Human Nutrition and Hospitality Management  
Katelyn Reichardt, Human Nutrition and Hospitality Management  
Katie Bain, Human Nutrition and Hospitality Management  
Faculty Mentor: Linda Knol, Human Nutrition and Hospitality Management  
*A Physical Activity Community Needs Assessment*
Sabrina Gerlich, Human Development and Family Studies
Kelly Schaefers, Human Development and Family Studies
Shemeka Phipps, Human Development and Family Studies
Joseph Ledford, Human Development and Family Studies
Faculty Mentor: Maria Hernandez-Reif, Human Development and Family Studies
The Family Interaction Project: The Effect of Mealtime Habits on Infant and Toddler Physical Development

Caitlin Wall, Consumer Sciences
Sarah Kidwell, Consumer Sciences
Faculty Mentor: Shinae Choi, Consumer Sciences
Examining the Need of Financial Counseling for Undergraduate Students at the University of Alabama

Leah Wilkes, Human Nutrition and Hospitality Management
Bridgett Howell, Human Nutrition and Hospitality Management
Abigail Tankersley, Human Nutrition and Hospitality Management
Sarah Monroe, Human Nutrition and Hospitality Management
Faculty Mentor: Lori Greene, Human Nutrition and Hospitality Management
The Negative Impacts of the Consumption of Processed Foods in Low-Income Children: A Review

Amber Henson, Health Science
Faculty Mentor: Lori Turner, Health Science
Body Image

Abigail Mirick, Health Science
Faculty Mentor: Lori Turner, Health Science
Saving Lives Initiative

Myia Lang, Health Science
Faculty Mentor: Lori Turner, Health Science
Project Health

Madison Farley, General Studies in HES
Faculty Mentor: Lori Turner, Health Science
Reducing Osteoporosis-Targeting College-Aged Women

Caitlin Kristof, Health Science
Faculty Mentor: Lori Turner, Health Science
Increasing Community Awareness of Osteoporosis

Alexis Vaughn, General Studies in HES
Faculty Mentor: Lori Turner, Health Science
The University of Alabama Beautiful Health Program
Casey Lee, General Studies in HES  
Faculty Mentor: Lori Turner, General Studies in HES  
University Medical Center-Patient Portal

Erin Lopez, Human Development and Family Studies  
Faculty Mentor: Maria Hernandez-Reif, Human Development and Family Studies  
Correlation Between Maternal Education Level and Emotion Regulation Strategies

Charles Wood, Consumer Sciences  
Faculty Mentor: Kyoung Tae Kim, Consumer Sciences  
Which households seek comprehensive financial advice?

Maranda Burns, Health Science  
Faculty Mentor: Adam Knowlden, Health Science  
Descriptive Analysis of Sleep Quality, Physical Activity, and Mental Distress in College Students

Jordan Stone, Human Development and Family Studies  
Faculty Mentor: Tricia Witte, Human Development and Family Studies  
Attitudes Toward Dating Violence Among College Students

MaryPat Peeples, Consumer Sciences  
Faculty Mentor: Melissa Wilmarth, Consumer Sciences  
An Examination of Financial Wellness and Married Individuals

Loren Schouest, Human Development and Family Studies  
Faculty Mentor: Casey Totenhagen, Human Development and Family Studies  
Daily Stressors of Same Sex Couples

Hunter Sartain, Human Development and Family Studies  
Joseph Clark Ledford, Human Development and Family Studies  
Kenya Donovan, Human Development and Family Studies  
Sabrina Gerlich, Human Development and Family Studies  
Megan Ingram, Human Development and Family Studies  
Faculty Mentor: Maria Hernandez-Reif, Human Development and Family Studies  
The Family Interaction Project: A Closer Look at Language and Social Development in Early Childhood

Mercedes Lightfoot, Health Science  
Faculty Mentor: Jen Nickelson, Health Science  
The state of depression and anxiety at The University of Alabama

Megan Ingram, Human Development and Family Studies  
Faculty Mentor: Maria Hernandez-Reif, Human Development and Family Studies  
The Family Interaction Project: Cortisol stress hormone levels in Young Infants and Toddlers
94
Caitlin Hudson, Human Development and Family Studies
Whitney LaCour, Biological Sciences
Faculty Mentor: Sherwood Burns-Nader, Human Development and Family Studies
*Examining the memories of Young Adult's childhood experiences with the doctor*

95
Simoen Tere Warren, Clothing, Textiles and Interior Design
Faculty Mentor: Kristin Maki, Clothing, Textiles and Interior Design
*Enculturation: The Design of an American Embassy for the People's Republic of China*

96
Kelli Reese, Health Science
Faculty Mentor: Pamela Foster, Community Health Sciences
*Pastors' HIV Knowledge, Stigma, and Outreach in Rural African American Churches*

97
Kenya Donovan, Human Development and Family Studies
Faculty Mentor: Maria Hernandez-Reif, Human Development and Family Studies
*The Family Interaction Project- The Factors of Development in Children*

CAPSTONE COLLEGE OF NURSING

SCHEDULE OF ORAL PRESENTATIONS

Nichols Room

10:00
Al-Karim Gilani, Chemical and Biological Engineering
Faculty Mentor: Cassandra Ford, Capstone College of Nursing
*Creation and Experiences of International Social Justice Project in Serbia*

LISTING OF POSTER PRESENTATIONS | 8:00 - 11:00AM

98
Caitlin Parker, Capstone College of Nursing
Austin Massey, Capstone College of Nursing
Skyler Palmer, Capstone College of Nursing
Matthew Lund, Capstone College of Nursing
Brantley Porter, Capstone College of Nursing
Lauren Weber, Capstone College of Nursing
Faculty Mentor: Michele Montgomery, Capstone College of Nursing
*Community Health Assessment of Coker, Alabama*

99
Ellie Wortman, Capstone College of Nursing
Lindsey Patterson, Capstone College of Nursing
Lane Balzli, Capstone College of Nursing
Anna Cassels, Capstone College of Nursing
Emily Trentacoste, Capstone College of Nursing
Brianna Wolfe, Capstone College of Nursing
Andie Barron, Capstone College of Nursing
Faculty Mentor: Paige Johnson, Capstone College of Nursing
*Windham Springs Disaster Preparedness*
100

Joy Prinsell, Capstone College of Nursing
Amy Akel, Capstone College of Nursing
Charlotte Galloway, Capstone College of Nursing
Carla Gonzalez, Capstone College of Nursing
Faculty Mentor: Sara Kaylor, Capstone College of Nursing

LEAPP into Action with High-Risk Medications

101

Ramya Bheemanathini, Capstone College of Nursing
Emily Motes, Capstone College of Nursing
Alyssa D’Addabo, Capstone College of Nursing
Emily Frazier, Capstone College of Nursing
Victoria Walters, Capstone College of Nursing
Abbie Friday, Capstone College of Nursing
Taylor Wharton, Capstone College of Nursing
Faculty Mentor: Michele Montgomery, Capstone College of Nursing

Primary Prevention of Elrod/Ebola, Alabama

102

Ashley Cleveland, Capstone College of Nursing
Simrin Patheja, Capstone College of Nursing
Taylor Langham, Capstone College of Nursing
Amber Bivins, Capstone College of Nursing
Morgan Smith, Capstone College of Nursing
Kendra Johnessee, Capstone College of Nursing
Faculty Mentor: Paige Johnson, Capstone College of Nursing

Look Before You Leap: STI Prevention in Northport, AL

103

Anne Townsend, Capstone College of Nursing
Maela Lanier, Capstone College of Nursing
Haley Davenport, Capstone College of Nursing
Erin Thompson, Capstone College of Nursing
Jane Anne Elliott, Capstone College of Nursing
Jordan Kabase, Capstone College of Nursing
Anna English, Capstone College of Nursing
Faculty Mentor: Michele Montgomery, Capstone College of Nursing

Welcome to Nutritional Education 101

104

Meghan Freeman, Capstone College of Nursing
Monika Roden, Capstone College of Nursing
Alexa Kenney, Capstone College of Nursing
Kathryn McCollum, Capstone College of Nursing
Lauren Downey, Capstone College of Nursing
Emily Courter, Capstone College of Nursing
Marlee Owen, Capstone College of Nursing
Faculty Mentor: Leslie Cole, Capstone College of Nursing

Coming Clean: Reduce Infections with Daily Chlorhexidine Baths

105

Katie Chapman, Capstone College of Nursing
Faculty Mentor: Paige Johnson, Capstone College of Nursing

Smoking Cessation in Adolescents in Coaling, Alabama
Alicia Logan, Capstone College of Nursing  
Ciara Culler, Capstone College of Nursing  
Winton Jones, Capstone College of Nursing  
Terry Brown, Capstone College of Nursing  
Mary Haley McFarney, Capstone College of Nursing  
Nicole Cressy, Capstone College of Nursing  
Faculty Mentor: Paige Johnson, Capstone College of Nursing  

*Turn Off The TV & Turn Up The Activity: Combating Obesity and Reducing Screen Time in Brookwood, AL*

Meche Hych, Capstone College of Nursing  
Sarah Groover, Capstone College of Nursing  
Robin Hall, Capstone College of Nursing  
Kimiko Clayton, Capstone College of Nursing  
Lindsey Sanders, Capstone College of Nursing  
Taylor Roden, Capstone College of Nursing  
Jennifer Broughton, Capstone College of Nursing  
Faculty Mentor: Michele Montgomery, Capstone College of Nursing  

*Community Gardens and Childhood Obesity in Coaling, AL*

Erica Willis, Capstone College of Nursing  
Emily Fields, Capstone College of Nursing  
Lindsay Henderson, Capstone College of Nursing  
Reagan Isbell, Capstone College of Nursing  
Samantha Vuckovich, Capstone College of Nursing  
Bekah Wilson, Capstone College of Nursing  
Amber McDonald, Capstone College of Nursing  
Faculty Mentor: Michele Montgomery, Capstone College of Nursing  

*Nutritional Education in Samantha, Alabama*

Elizabeth Middleton, Capstone College of Nursing  
Mallory Padgett, Capstone College of Nursing  
Kristara Lewis, Capstone College of Nursing  
Dresha Caldwell, Capstone College of Nursing  
Addie Nicholson, Capstone College of Nursing  
Natalie Aldrich, Capstone College of Nursing  
Alex Hooks, Capstone College of Nursing, Capstone College of Nursing  
Faculty Mentor: Paige Johnson, Capstone College of Nursing  

*Smoking Prevention for School Aged Children in Vance, AL*

Julia Olsson, Capstone College of Nursing  
Miali Praytor, Capstone College of Nursing  
Michelle Albright, Capstone College of Nursing  
Lindsay Ghiroli, Capstone College of Nursing  
Tristan Franklin, Capstone College of Nursing  
Amanda Smeltzer, Capstone College of Nursing  
Carrie Hodges, Capstone College of Nursing  
Faculty Mentor: Michele Montgomery, Capstone College of Nursing  

*Assessment of Nutrition in Holt, AL*
Katherine Nesbitt, Capstone College of Nursing
Cailin Ulmer, Capstone College of Nursing
Jordan Koplon, Capstone College of Nursing
Emily Shealy, Capstone College of Nursing
Elizabeth Hargrove, Capstone College of Nursing
Taylor Leonard, Capstone College of Nursing
Kathryn Fauser, Capstone College of Nursing
Faculty Mentor: Paige Johnson, Capstone College of Nursing

Fosters Community Assessment

Molly McCain, Capstone College of Nursing
Laura Harris, Capstone College of Nursing
Alison Brock, Capstone College of Nursing
Carla Keith, Capstone College of Nursing
Shanice Baldwin, Capstone College of Nursing
Madeline Krams, Capstone College of Nursing
Asia Dawson, Capstone College of Nursing
Faculty Mentor: Michele Montgomery, Capstone College of Nursing

Duncanville/Big Sandy Community Assessment

Kendyl Shelton, Capstone College of Nursing
Elizabeth Williams, Capstone College of Nursing
Melissa Clark, Capstone College of Nursing
Caroline Langly, Capstone College of Nursing
Kelsey Childress, Capstone College of Nursing
Ballie Hooten, Capstone College of Nursing
Brandyn Dupree, Capstone College of Nursing
Allison Beckworth, Capstone College of Nursing
Faculty Mentor: Julie Jones, Capstone College of Nursing

Incentives for Spirometry

Bryan Hopkins, Capstone College of Nursing
Anna Melde, Capstone College of Nursing
Morgan Holt, Capstone College of Nursing
Paige Godfrey, Capstone College of Nursing
Faculty Mentor: Sara Kaylor, Capstone College of Nursing

The Nursing Shortage: A Critical Health Care Issue

Katharine Drake, Capstone College of Nursing
Taylor Averette, Capstone College of Nursing
Amanda Chambers, Capstone College of Nursing
Jordan Norris, Capstone College of Nursing
Jordan Lowell, Capstone College of Nursing
Rachel Herrington, Capstone College of Nursing
Alicia Phillips, Capstone College of Nursing
Faculty Mentor: Leslie Cole, Capstone College of Nursing

When In Doubt: Show Restraint
Mary Lyle, Capstone College of Nursing
Melody Hancock, Capstone College of Nursing
Darci Anderson, Capstone College of Nursing
Colleen Anusiewicz, Capstone College of Nursing
Bobbie Brooks, Capstone College of Nursing
Caroline Ottelin, Capstone College of Nursing
Alyssa Rajkowski, Capstone College of Nursing
Geordan Saindon, Capstone College of Nursing
Faculty Mentor: Julie Jones, Capstone College of Nursing
Continuous Passive Motion: Too Passive to Make a Difference?

Summer Reedy, Capstone College of Nursing
Sarah Scroggins, Capstone College of Nursing
Kayla Thomas, Capstone College of Nursing
Haley Osteen, Capstone College of Nursing
Stephanie Gross, Capstone College of Nursing
Alexa Polanski, Capstone College of Nursing
Maya Yarbrough, Capstone College of Nursing
Faculty Mentor: Stephanie Turner, Capstone College of Nursing
Let's Get Critical

Sara Smith, Capstone College of Nursing
Jordan Yazbec, Capstone College of Nursing
Brittney Pruitt, Capstone College of Nursing
Meredith Kocan, Capstone College of Nursing
Shelby Dowdy, Capstone College of Nursing
Kayla Wilson, Capstone College of Nursing
Rachel Litke, Capstone College of Nursing
Bailey Newby, Capstone College of Nursing
Faculty Mentor: Heather Reeves, Capstone College of Nursing
Can lack of nutritional intake affect hospital revenue?

Barbara Thornton, Capstone College of Nursing
Emma-Caitlin Pitts, Capstone College of Nursing
Katie Meredith, Capstone College of Nursing
Kristina Collins, Capstone College of Nursing
Ashley Mixson, Capstone College of Nursing
Virginia Farlow, Capstone College of Nursing
Lauren Higginbotham, Capstone College of Nursing
Staci Shea, Capstone College of Nursing
Faculty Mentor: Stephanie Ragland, Capstone College of Nursing
When It Bleeds It Pours
SCHEDULE OF ORAL PRESENTATIONS

Smith Board Room

2:00

Carly Dethrage, School of Social Work
Faculty Mentor: Javonda Williams, School of Social Work
Bowlby’s Theory of Attachment in third world countries

2:20

Aubrey Smith, School of Social Work
Erika Rogers, School of Social Work
Sara Langley, School of Social Work
Jonathan Harrell, School of Social Work
Sonya Barnes, School of Social Work
Erin Delaney, School of Social Work
Alexa Argianas, School of Social Work
Ashley Gullap, School of Social Work
Faculty Mentor: Kevin Corcoran, School of Social Work
“Starts With Me”: Breaking Stereotypes with the Next Generation

LISTING OF POSTER PRESENTATIONS | 8:00 - 11:00AM

120
Regina Williams, School of Social Work
Faculty Mentor: Javonda Williams, School of Social Work
Caring for the Elderly: Comparing the quality of care between nursing homes and residential homes

121
Regina Williams, School of Social Work
Jenna Corley, School of Social Work
Jessica Perkins, School of Social Work
Heather Bryant, School of Social Work
Shellie Parrish, School of Social Work
Susan Slay, School of Social Work
Jonta Moore, School of Social Work
Faculty Mentor: Kevin Corcoran, School of Social Work
“Love Cub: Maintaining family bonds in the midst of temporary separation”

122
Sarah Kimbrell, School of Social Work
Catharine Pierce, School of Social Work
Alexis Ferruccio, School of Social Work
Faculty Mentor: Javonda Williams, School of Social Work
Suicide Among College Students
EMERGING SCHOLARS

DIVISION OF FINE ARTS & HUMANITIES

SCHEDULE OF ORAL PRESENTATIONS

Group 1 - Rast B Room

2:00
Sarah Asseff, American Studies
Faculty Mentor: Ellen Spears, American Studies
“The American Chemical Industry's Transition into World War II and its Post-War Developments”

2:20
Katie Gatti, Advertising and Public Relations
Faculty Mentor: Meg Lamme, Advertising and Public Relations
The "Mouse-General" and the Grey Lady: Joseph Goebbels in The New York Times, 1933

2:40
Jared Tubbs, Music
Faculty Mentor: Amir Zaheri, Music
Music in Nazi Germany: Replacing the Irreplaceable

3:00
Elizabeth Patton, English
Faculty Mentor: Sarah Cantrell, English
Looking Inward and Outward: J. M. Barrie's Peter Pan in the Classroom

3:20
Keaton Galloway, Curriculum and Instruction
Faculty Mentor: Michael Picone, Modern Languages and Classics
Literary Dialect and Its Use in Linguistic Reconstruction

3:40
David Nicholson, Theatre and Dance
Faculty Mentor: Seth Panitch, Theatre and Dance
Artistic Grants from Various Foundations

4:00
Ryan Lamm, Economics, Finance and Legal Studies
Faculty Mentor: Bartow Elmore, History
The History of Triphosphate Detergents in America

4:20
Sommer Hallquist, Anthropology
Madeline Anscombe, Anthropology
Faculty Mentor: Ian Brown, Anthropology
Dealing with Death: A Study of Children's Changing Grave Themes and What They Reveal about American Society
LISTING OF POSTER PRESENTATIONS | 1:00 - 4:00PM

ES1
Rachel Belisle, Economics, Finance and Legal Studies
Faculty Mentor: Kristen Warner, Telecommunication and Film
Bias and Borders: Inequality Within the Film Industry

ES2
Rachel Madey, Chemistry
Faculty Mentor: Kathryn Oths, Anthropology
Understanding Demographic Changes in Peruvian Andes

ES3
Fatima Becerra, Anthropology
Faculty Mentor: Kathryn Oths, Anthropology
Herbal Medicine Use in the Peruvian Highlands

ES4
Karissa Annis, English
Faculty Mentor: Patti White, English
April 27, 2011: UA Responds to the Tornado

DIVISION OF SCIENCE, MATHEMATICS & ENGINEERING

SCHEDULE OF ORAL PRESENTATIONS

Wilson Room

2:00
Davis Campassi, Mechanical Engineering
Faculty Mentor: Paul Puzinauskas, Mechanical Engineering
Diagnostic and Emissions Analysis of a Hybrid-Electric Vehicle

2:20
Lindsay Macher, Chemical and Biological Engineering
Faculty Mentor: Yuping Bao, Chemical and Biological Engineering
Synthesis of PEI-coated nanowhiskers for use as MRI contrast agents

2:40
Trevor Hearing, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
The effects triglyceride levels have on the health of Drosophila melanogaster

LISTING OF POSTER PRESENTATIONS | 8:00 - 11:00AM

ES1
Rainey Gerald, Human Nutrition and Hospitality Management
Faculty Mentor: Amy Ellis, Human Nutrition and Hospitality Management
How well does skinfold thickness predict percent body fat in healthy older adults?

ES2
Madeline Gibson, Chemical and Biological Engineering
Faculty Mentor: Kristi Crowe-White, Human Nutrition and Hospitality Management
Effects of Processing on the Phytochemical Profile and Antioxidant Capacity of Four Honey Varietals
ES3
Theresa Borcky, Chemical and Biological Engineering
Christopher Bankston, Chemical and Biological Engineering
Kendall Smith, Information Systems, Statistics and Management Science
Faculty Mentor: Margaret Liu, Chemical and Biological Engineering
Targeted Anticancer Biopharmaceutical Production Platform Development Using CHO Cells

ES4
Mary Muffly, Chemistry
Rainey Gerald, Health Science
Faculty Mentor: Kristi Crowe-White, Health Science
The Acid-Base Hypothesis: Dietary Protein and Bone Health among Older Adults

ES5
Sydney Schaefer, Geological Sciences
Faculty Mentor: Ibrahim Cemen, Geological Sciences
Permeability of Chattanooga Shale Deposits in Northeast Alabama

ES6
Kathryn Shay, Geography
Faculty Mentor: Eben Broadbent, Geography
Development of methodology and preliminary data collection for a soundscape monitoring program of the seasonal dynamics of avian composition and abundance in Alabama

ES7
Clare Ols, Biological Sciences
Faculty Mentor: Eben Broadbent, Geography
Trail and forest animal diversity and composition in a biological reserve with active ecotourism on the Osa Peninsula of Costa Rica

ES8
Carissa Clay, Biological Sciences
Faculty Mentor: Ryan Earley, Biological Sciences
Personality and Fitness in Mangrove Rivulus Fish

ES9
Cole Mattingly, Biological Sciences
Faculty Mentor: Ryan Earley, Biological Sciences
Thermal Acclimation to increased temperature in Kryptolebias marmoratus

ES10
Kara MacIntyre, Biological Sciences
Faculty Mentor: Laura Reed, Biological Sciences
Influence of humans’ land use on Drosophila species and genetic diversity

ES11
Johnathan Belcher, Chemistry
Faculty Mentor: David Dixon, Chemistry
Catalysis of Ethanol Condensation Reactions

ES12
Steven Scaglione, Biological Sciences
Faculty Mentor: Katrina Ramonell, Biological Sciences
Physiological Effects of Iron Oxide Nanoparticles on Arabidopsis thaliana
ES13
Lara Scott, Chemistry
Faculty Mentor: John Vincent, Chemistry
*Spectroscopic Studies of Low-Molecular-Weight Chromium-Binding Substance in Non-Aqueous Solvents*

ES14
Alexander Shaver, Chemistry
Faculty Mentor: Stephen Woski, Chemistry
*Dipole Effect on Universal Bases*

ES15
Joseph Butler, Chemistry
Faculty Mentor: Daniel Goebbert, Chemistry
*Radical Emission Spectroscopy*

ES16
Andrew Rice, Biological Sciences
Faculty Mentor: Julie Olson, Biological Sciences
*Examination of secondary metabolite genes in bioactive marine bacteria*

ES17
Brice Morpeth, Chemistry
Faculty Mentor: Stephen Woski, Chemistry
*Single Molecule Rectifiers*

ES18
Allison Estep, Biological Sciences
Faculty Mentor: Julie Olson, Biological Sciences
*Cultivation and Characterization of Urea Utilizing Bacteria from Weeks Bay, AL*

ES19
Evan Dittmar, Biological Sciences
Faculty Mentor: Jeff Lozier, Biological Sciences
*Effects of latitude and altitude on Bombus vosnesenskii morphology*

ES20
Madeline Khuri, Biological Sciences
Faculty Mentor: Jennifer Howeth, Biological Sciences
*The Role of Habitat Age in Structuring Fish Communities in a Successional pond Metacommunity*

ES21
Joseph Matthews, Biological Sciences
Noah Connor, Biological Sciences
Faculty Mentor: Matthew Jenny, Biological Sciences
*The Effects of Age and Sex on Zebrafish Cognitive Function*

ES22
Maya Allen, Biological Sciences
Faculty Mentor: Juan Lopez-Bautista, Biological Sciences
*The Molecular Identification of Ulva Species*

ES23
Jamie Tesh, Chemical and Biological Engineering
Faculty Mentor: Elizabeth Papish, Chemistry
*Study of Transition Metal Complexes for Water Oxidation*
ES24
*Sarah Howard*, Chemistry  
Faculty Mentor: Timothy Snowden, Chemistry  
*Progress Toward the First Enantioselective Synthesis of Chiral Diarylmethanamines*

ES25
*Kirklan Kathe*, Biological Sciences  
Adam Lazarus, Biological Sciences  
Faculty Mentor: Janis O'Donnell, Biological Sciences  
*Investigating the role of dopamine synthesis in the social interaction paradigm of autism spectrum disorders*

ES26
*Francesca Fuger*, Biological Sciences  
Faculty Mentor: Ryan Earley, Biological Sciences  
*Can Variation in Fecundity Be Influenced by a Predecessor's Experience? Transgenerational Epigenetic Inheritance of Life History Traits*

ES27
*Vidya Sree Dandu*, Biological Sciences  
Faculty Mentor: Asma Hatoum-Aslan, Biological Sciences  
*Isolating Bacterial Viruses that Combat Drug-Resistant Staphylococci*

ES28
*Amanda Ivy*, Chemistry  
Blake Fairchild, Biological Sciences  
Serenity Pace, Biological Sciences  
Faculty Mentor: Margaret Johnson, Biological Sciences  
*DNA Chromatography of Myo-inositol Phosphate*

ES29
*Tayler Fancher*, Biological Sciences  
Faculty Mentor: Natasha Dimova, Geological Sciences  
*Dating Corals from Coral Reef Terraces in Papua-New Guinea*

ES30
*Garrett Skurka*, Economics, Finance and Legal Studies  
Brian Brathovd, Geological Sciences  
Faculty Mentor: Rona Donahoe, Geological Sciences  
*Impact of Acid Mine Drainage on Water Quality at Lake Harris, Tuscaloosa County, Alabama*

ES31
*Jocelyn Newman*, Chemistry  
Faculty Mentor: Martin Bakker, Chemistry  
*Reduction of 4-Nitrophenol with Sodium Borohydride using Nickel on Porous Carbon Supports*

ES32
*Mary Harris*, Biological Sciences  
Rachel Anderson, Biological Sciences  
Faculty Mentor:  
*Isolated Region of MIPS promoter involved in epigenetic regulation of inositol phosphate biosynthesis via PCR*

ES33
*Johnathan Laurich*, Biological Sciences  
Faculty Mentor: Ryan Earley, Biological Sciences  
*Climate Variation and Reproductive Seasonality in Mangrove Rivulus Fish*
ES34
**Kassandra Keith**, Chemical and Biological Engineering
Faculty Mentor: Nitin Chopra, Metallurgical and Materials Engineering
*Fabrication and Characterization of Platinum Nanoparticles Decorated Metal Oxide Nanowire Heterostructures*

ES35
**Daniel Stucki**, Aerospace Engineering and Mechanics
Faculty Mentor: Gary Cheng, Aerospace Engineering and Mechanics
*Computational Aeroacoustics*

ES36
**Christina Noe**, Computer Science
Faculty Mentor: Jeff Gray, Computer Science
*Web-based Application for Virtual Exercise Regimen*

ES37
**Cassie Clifton**, Mechanical Engineering
Faculty Mentor: Vinu Unnikrishnan, Aerospace Engineering and Mechanics
*Computational and Experimental Modeling of Female Pelvic Floor Muscles for Obstetric and Pelvic Organ Prolapse (POP) Surgical Planning*

ES38
**Mitchell, Johnson**, Mechanical Engineering
Faculty Mentor: Ajay Agrawal, Mechanical Engineering
*Effects of Geometry on Combustion Performance of Flow-Blurring Fuel Injectors*

ES39
**Marlow Durbin**, Chemical and Biological Engineering
Faculty Mentor: Jason Bara, Chemical and Biological Engineering
*Synthesis and Physical Testing of Tetramethylimidazolium-based Ionic Liquids*

ES40
**Matt Bowen**, Computer Science
Faculty Mentor: Jeff Gray, Computer Science
*Speed Estimation Using Computer Vision*

ES41
**Henry Stere**, Computer Science
Faculty Mentor: Susan Vrbsky, Computer Science
*GPU Implementation of H.264 Video Codec*

ES42
**Ellis Crabtree**, Chemical and Biological Engineering
Andrew Hanebuth, Chemical and Biological Engineering
Jared Morgan, Chemical and Biological Engineering
Faculty Mentor: Heath Turner, Chemical and Biological Engineering
*Physical Representations of Simulation Data*

ES43
**Jacob Zarobsky**, Computer Science
Faculty Mentor: Jeff Gray, Computer Science
*Hiding Messages in Audio Files: A Case Study In Steganography*
ES44
Alexandra Wrist, Chemical and Biological Engineering
Kaitlyn Ryan, Chemical and Biological Engineering
Faculty Mentor: Ryan Summers, Chemical and Biological Engineering
Isolation of Caffeine Degrading Bacteria from Soil

ES45
Todd Gilliam II, Chemical and Biological Engineering
Faculty Mentor: Nitin Chopra, Metallurgical and Materials Engineering
Carbon nanotube network composites with graphene-encapsulated gold nanoparticles

ES46
Sean Devey, Mechanical Engineering
Faculty Mentor: Paul Hubner, Aerospace Engineering and Mechanics
Development of a Fixed Membrane-Wing MAV Test Platform

ES47
Angelo Rabano, Chemical and Biological Engineering
Faculty Mentor: Xiangrong Shen, Mechanical Engineering
Using Arduino Microcontrollers to Control Electronics

ES48
Karl Anderson, Mechanical Engineering
Faculty Mentor: Ajay Agrawal, Mechanical Engineering
Passive Control of Thermo-Acoustic Instability in Different Length Combustors Using Metallic Porous Insert

ES49
Justin Timberlake, Computer Science
Faculty Mentor: Jeff Gray, Computer Science
Assisting Students with Motor Disabilities to Program by Voice in a Block Language

ES50
Kip Callahan, Chemistry
Faculty Mentor: Silas Blackstock, Chemistry
Donor-Acceptor Co-crystallization of Neutral and Cationic Azobenzenes

ES51
Michael Leffler, Chemical and Biological Engineering
Faculty Mentor: Margaret Liu, Chemical and Biological Engineering
Process Engineering of Clostridium tyrobutyricum to improve Butyric Acid Production

ES52
Jessica Prestel, Mechanical Engineering
Joanna Leung, Mechanical Engineering
Laurel Johnson, Mechanical Engineering
Faculty Mentor: Marcus Ashford, Mechanical Engineering
RPER: Rapid Prototyping Research Engine

ES53
Ethan McVay, Mechanical Engineering
Faculty Mentor: Joshua Bittle, Mechanical Engineering
Commissioning of rainbow stiller system for imaging vaporizing liquid fuel sprays
Jacob Robinson, Chemical and Biological Engineering
Annkay Alexander, Biological Sciences
Chris Mayhugh, Chemical and Biological Engineering
Jianfa Ou, Chemical and Biological Engineering
Faculty Mentor: Margaret Liu, Chemical and Biological Engineering
Metabolic engineering of Clostridium tyrobutyricum to decrease byproduct formation for butyrate production

Andrew Nelson, Computer Science
Faculty Mentor: John Lusth, Computer Science
Computer-Generated Trumpet Music

Jordan Elizaga, Electrical and Computer Engineering
Faculty Mentor: Jaber Abu Qahouq, Electrical and Computer Engineering
Experimental Study on the Effect of Aging and Health of Batteries on its Parameters

Erin Adams, Civil, Construction and Environmental Engineering
Heather Wilson, Civil, Construction and Environmental Engineering
Faculty Mentor: Sriram Aaleti, Civil, Construction and Environmental Engineering
Material Properties of Ultra-high Performance Concrete (UHPC): Tensile Strength

Brandon McChristian, Mechanical Engineering
Faculty Mentor: Steve Shepard, Mechanical Engineering
Determining Helmet Impact Energy Using Spectral Analysis of Sound

Alex McAlister, Mechanical Engineering
Faculty Mentor: Paul Allison, Mechanical Engineering
Nanoindentation of Multilayer Composites to Probe the Nanomechanical Properties of the Interfacial Regions

Katie Doggett, Mechanical Engineering
Samantha Nofsinger, Kinesiology
Samantha Darr, Biological Sciences
Faculty Mentor: Jonathan Wingo, Kinesiology
Effect of Ice Slurry Ingestion on Cardiovascular Drift and Maximal Oxygen Uptake During Heat Stress

Jake Turner, Aerospace Engineering and Mechanics
Faculty Mentor: Vinu Unnikrishnan, Aerospace Engineering and Mechanics
Carbon Nanotubes: The Future of Engineering?

Stephanie Harris, Metallurgical and Materials Engineering
Faculty Mentor: Glenn Tootle, Civil, Construction and Environmental Engineering
Tree-Ring Research

Kaitlin Ervin, Biological Sciences
Austin Martindale, Biological Sciences
Troy Smigielski, Biological Sciences
Faculty Mentor: Jonathan Wingo, Kinesiology
Effect of Exercise Mode on Cardiovascular Drift and Maximal Oxygen Uptake During Heat Stress
ES64
Kaitlin Little, Capstone College of Nursing
Faculty Mentor: Cassandra Ford, Capstone College of Nursing
Rural Women and the Rate of Cardiovascular Disease

AFTERNOON ES SCIENCE, MATH & ENGINEERING | 1:00 - 4:00PM

ES49
Nicholas Radivoj, Mechanical Engineering
Faculty Mentor: Ajay Agrawal, Mechanical Engineering
Reducing Emissions and Increasing Efficiency in Combussion Process

ES50
Eric Johns, Biological Sciences
Faculty Mentor: Kim Caldwell, Biological Sciences
Identification of Mutations Involved in Epilepsy using a C. elegans Convulsion Model

ES51
Samantha Glukhova, Biological Sciences
Siyuan Zhang, Biological Sciences
Faculty Mentor: Guy Caldwell, Biological Sciences
Role of neutral cholesterol ester hydrolase gene in lifespan and neuroprotection in a C. elegans model of Parkinson's Disease

DIVISION OF SOCIAL & BEHAVIORAL SCIENCES, BUSINESS & EDUCATION

SCHEDULE OF ORAL PRESENTATIONS

Group 1 - Birmingham Room

2:00
Casey Barberio, Political Science
Faculty Mentor: Richard Fording, Political Science
Impact of Voter Identification Legislation on Alabama’s Minority Voters

2:20
Alexander Fries, Geography
Faculty Mentor: Steven Ericson, Geography
Assessment of Bikeability on The University of Alabama Campus

2:40
Jordan Levy, Economics, Finance and Legal Studies
Faculty Mentor: Liana Pennington, Criminal Justice
Juror trust in a Southeastern courthouse

3:00
Laura Smith, Biological Sciences
Faculty Mentor: Norma Cuellar, Capstone College of Nursing
Mindfulness-Based Stress Reduction for Treatment of Restless Legs Syndrome

3:20
Sarah Harden, School of Social Work
Faculty Mentor: Shadi Martin, School of Social Work
Learning from the Survivors: How to increase breast cancer screening and early detection among Emirati women
3:40
Margaret White, Human Nutrition and Hospitality Management
Faculty Mentor: Yasmin Neggers, Human Nutrition and Hospitality Management
*Obesity: Causes and Effects*

**Group 2 - Central Bank Room**

2:00
Thomas Sperry, Mechanical Engineering
Faculty Mentor: Rachel Frazier, AIME
*Improving Patient Care Using an Early Warning System*

2:20
Candace Cravey, Management and Marketing
Faculty Mentor: Juliet Davis, Management and Marketing
*What Characteristics Affect the Quality of Long-Term Care?*

2:40
Cullin Tripp, Information Systems, Statistics and Management Science
Faculty Mentor: Paul Drnevich, Management and Marketing
*Examining Value Creation vs. Value Capture in the National Basketball Association*

3:00
Erik Witte, Chemical and Biological Engineering
Faculty Mentor: Whitney Hough, Technology Transfer
*Developing Commercialization Plans for Innovative Technologies*

3:20
John-Cole Garwick, Economics, Finance and Legal Studies
Faculty Mentor: Paul Drnevich, Information Systems, Statistics and Management Science
*Measuring Value Creation vs. Value Capture in Mergers and Acquisitions*

3:40
Dylan Hood, History
Faculty Mentor: John Beeler, History
*The Devolution of Close Friends to Bitter Enemies*

**LISTING OF POSTER PRESENTATIONS | 1:00 - 4:00PM**

ES5
Caroline Waldo, Curriculum and Instruction
Faculty Mentor: Matthew Jarrett, Psychology
*Attention-Deficit/Hyperactivity Disorder (ADHD) Subtypes in College Students: Differences on Anxiety and Depression*

ES6
Emory (Grey) Price, Psychology
Faculty Mentor: Matthew Jarrett, Psychology
*Attention-Deficit/Hyperactivity Disorder (ADHD) Symptoms, Neuropsychological Functioning, and Self-Reported Driving Behaviors*

ES7
Carter Reed, Biological Sciences
Faculty Mentor: Andrea Glenn, Psychology
*Emotional Reactions to Internet Videos*
ES8
Kayla Frederick, Political Science
Faculty Mentor: Diana Dolliver, Criminal Justice
*Drug Trafficking on Silk Road 2 through the Tor Network*

ES9
Jenna Dworak, Communicative Disorders
Faculty Mentor: Anthony Buhr, Communicative Disorders
*Stuttering Frequency And Its Dependency On Conversation Topic*

ES10
Haley Bevis, Communicative Disorders
Faculty Mentor: Anthony Buhr, Communicative Disorders
*Perception of Stuttering*

ES11
Madison Anzelt, Biological Sciences
Tori Fields, Biological Sciences
Faculty Mentor: Beverly Thorn, Psychology
*The Association of Demographic and Pain Characteristics with Types of Self-Reported Pain Treatment Strategies Used Among Chronic Pain Patients Seeking Care at FQHC’s*

ES12
Catherine Osorio, Psychology
Faculty Mentor: Andre Souza, Psychology
*The Cyber Mind: the role of cognition on people’s evaluations of technology*

ES13
Megan Craig, Political Science
Faculty Mentor: Dana Patton, Political Science
*Could Medicaid Expansion Help Lower Male Suicide Rates in Alabama?*

ES14
Briana Lucas, Psychology
Faculty Mentor: Sheila Black, Psychology
*Effects of Semantic Satiation on Metaphor Interpretation*

ES15
Baylor Jeffries, Psychology
Faculty Mentor: Theodore Tomeny, Psychology
*What can social media tell us about opinions of vaccination practices?: A literature review*

ES16
Michelle Plese, Biological Sciences
Faculty Mentor: Martha Crowther, Psychology
*Familial History and Shared Narratives: Strengthening Bonds Between Custodial Grandparents and Grandchildren*

ES17
Julia Katz, Psychology
Faculty Mentor: Jeffrey Parker, Psychology
*Relationship Between Self-Esteem, Contingency, and Parental Psychological Control in Adolescent Friendship Jealousy*
ES18
Ellery Day, Biological Sciences
Alison Beiser, Biological Sciences
Faculty Mentor: Sarah Morrow, Anthropology
Analyzing Stress Levels in High Risk, Preschool/Kindergarten-age Children

ES19
Megan Schmidt, Curriculum and Instruction
Faculty Mentor: Christina Medonald, Psychology
The Effects of Taekwondo Training on Executive Functions in Children

ES20
Molly Neill, Biological Sciences
Faculty Mentor: Rebecca Allen, Psychology
Future Care Preparedness of Urban and Rural CNAs

ES21
Anna Grace Parente, Communicative Disorders
Faculty Mentor: Anthony Buhr, Communicative Disorders
Speech Fluency in English as Second Language Speakers

ES22
Hilary Jones, Political Science
Faculty Mentor: Joseph Smith, Political Science

ES23
Olympia Karageorgiou, Political Science
Faculty Mentor: Dana Patton, Political Science
Ebola: Media Coverage and Public Opinion

ES24
Michael Scaglione, Psychology
Kathryn Reynolds, Psychology
Lauren Browning, Psychology
Faculty Mentor: Philip Gable, Psychology
Contentment as a Withdrawal-Motivated Emotion: Evidence from Time Perception

ES25
Andrew Reed, Psychology
Samantha Thomas, Psychology
Lauren Browning, Psychology
Faculty Mentor: Philip Gable, Psychology
Time on the Brain: Neural Mechanisms of Motivation Modulate Time Perception

ES26
Jack Anderson, Psychology
Faculty Mentor: Randy Salekin, Psychology
Relations Between Reduced Cortisol Functioning and the Development of Child Psychopathy

ES27
Annalee Fuller, Psychology
Faculty Mentor: Andrea Glenn, Psychology
Development of a Naturalistic Facial Expression Image Dataset
ES28
Matthew Barrett, Political Science
Faculty Mentor: Karl DeRouen, Political Science
Efficacy of United Nations Peace Keeping Operations

ES29
Alayna Watson, Psychology
Faculty Mentor: Ansley Gilpin, Psychology
Assessing the Vocabulary Levels of At-Risk Preschoolers to Improve Cognitive Assessments

ES30
Holli Adams, Communicative Disorders
Claire Patterson, Communicative Disorders
Faculty Mentor: Rachel Saffo, Communicative Disorders
Play’s Importance in the Assessment of Bilingual Children

ES31
Emilee Benos, Journalism
Faculty Mentor: Kim Bissell, Journalism
Factors That Relate to an Individual’s Self Perception as it Relates to Body Image

ES32
Andrea Bright, Human Nutrition and Hospitality Management
Faculty Mentor: Linda Knol, Human Nutrition and Hospitality Management
Home Food Environments among College Students

ES33
Caroline Alvarez, Economics, Finance and Legal Studies
Faculty Mentor: James Cover, Economics, Finance and Legal Studies
Ireland’s Economic Crisis and Recovery

ES34
Bethany Corne, Advertising and Public Relations
Faculty Mentor: Christopher Vargo, Advertising and Public Relations
Understanding Brands on Social Media with a Tweet Typology

ES35
Madison Elmore, Kinesiology
Faculty Mentor: Phillip Bishop, Kinesiology
A Combined Intervention Improves Recovery from Weight Training

ES36
Elizabeth Conrad, Computer Science
Faculty Mentor: Jeff Gray, Computer Science
A Block-Based Programming Environment for Young African American Girls

ES37
Peyton Presto, Chemical and Biological Engineering
Faculty Mentor: Jullet Davis, Management and Marketing
Adult Living Facilities: Comparing Quality of Care and Profit Status

ES38
Benjamin Pearsall, Culverhouse School of Accountancy
Faculty Mentor: James Cover, Economics, Finance and Legal Studies
How Canada’s Economic Policy has Changed, Adapted, and Grown
ES39
Nathan Golden, Management and Marketing
Faculty Mentor: Craig Armstrong, Management and Marketing
Minimizing Entrepreneurial Risk in Start-Up Businesses

ES40
Miranda Casey, School of Social Work
Faculty Mentor: Debra Nelson-Gardell, School of Social Work
Preventing Delinquency Among Maltreated and Trauma-Exposed Children and Adolescents: Mentoring Natural and Trusting Relationships [MNTR]

ES41
Trinicia Bodden, Chemistry
Faculty Mentor: Sherwood Burns-Nader, Human Development and Family Studies
SES Effects on Medical Experiences Based on the Memories of Young Adults

ES42
Elizabeth Selmarten, Advertising and Public Relations
Faculty Mentor: Chris Roberts, Journalism
Pacing of Presidential Political Advertising

ES43
Cho Rong Won, School of Social Work
Faculty Mentor: Avani Shah, School of Social Work
Get Your Game On: A Review of Mental Health Intervention Games

ES44
Alexandra DeKinder, Chemical and Biological Engineering
Faculty Mentor: Jason Parton, Information Systems, Statistics and Management Science
Survival Likelihood of Trauma Patients: An examination of transport to trauma centers compatible with the pre-hospital assessment of the patient

ES45
Jason Solomon, Economics, Finance and Legal Studies
Faculty Mentor: Robert Brooks, Economics, Finance and Legal Studies
An Enterprise Perspective of Performance Attribution

ES46
Lance McCaskey, Economics, Finance and Legal Studies
Faculty Mentor: James Cover, Economics, Finance and Legal Studies
Alternative Energy and the Texas State Government: A study on increasing energy demand and the political fight to increase supply

ES47
Emily Barbee, Information Systems, Statistics and Management Science
Derek Carter, Economics, Finance and Legal Studies
Faculty Mentor: Emmett Lodree, Information Systems, Statistics and Management Science
The Donations Collection Problem

ES48
Jamie Talecki, Information Systems, Statistics and Management Science
Faculty Mentor: Glenn Richey, Management and Marketing
Supply Chain in the Business Industry
ACKNOWLEDGEMENTS

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Special thanks to the University Supply Store for our door prizes!