Schedule of Events

Thursday, April 12, 2018

3:00pm - 4:00pm  Registration (t-shirt pickup) & Poster Hanging

4:00pm  Keynote Speaker

Jane Couperus, Hampshire College, Amherst, MA
“PURSUE: Hands on, Student-centered Research and Education in Cognitive Neuroscience.”

Friday, April 13, 2018

Oral Presentations
9:00am – 2:00pm

Poster Presentations
2:00pm – 3:00pm  Poster Session 1 (Even Numbered Presentations)
3:15pm – 4:15pm  Poster Session 2 (Odd Numbered Presentations)

Chancellor’s Message
3:00-3:15pm

Sponsored by USC Aiken Alumni, Celeste Suggs
Oral Presentations

Session A: Memorial Room
Moderators – Meredith Elzy and Bill Jackson

9:00 Vascular Risk Factors and Diabetes in Late Adolescents and Young Adults, an Assessment of Working Memory
Heather Nall and Juliette Seremak
Mentored by Dr. Alexandra Roach

9:15 Honors: Increasing Likelihood of Cognitive Biases by Increasing Belief in Conspiracy Theories
Yasmin Bedenbaugh
Mentored by Adam Pazda

9:30 Comparison of a Prototype Remote Rat Monitoring System with Conventional Video Observations for Drinking Behavior in Rats
Heather Nall
Mentored by Dr. Derek Zelmer

9:45 The Effect of HDAC Inhibition on Expression of tbx5 Paralogs in Zebrafish
Alec Arthur Jones
Mentored by Dr. April DeLaurier

10:00 Honors: Student Moral Distress
Sharon Rose Seufert
Mentored by Dr. Mary Gaffney

10:15 Using CRISPR/Cas9 to Study the Role of ZmyM2 and ZmyM3 in Zebrafish Craniofacial Development
Terence Willoner
Mentored by Dr. April DeLaurier

10:30 BREAK
Moderators – April DeLaurier and Nathan Hancock

10:45 Designing and Cloning of an Anti-Rev shRNA
Geneva Masak
Mentored by Dr. William Jackson

11:00 Honors: Altering mPing Transposition Behavior Using Different Plant Promoters
Haley Stone
Mentored by Dr. C. Nathan Hancock

11:15 Graph Theory: Edge-Maximal Graphs Containing No Vertex-Disjoint Triangles
Michaela Howard
Mentored by Dr. Mohammad Hailat

11:30 Honors: Downregulation of HIV-1 Replication in siRNA-protected T Lymphocytes
Christian Fay
Mentored by Dr. William Jackson
11:45  Honors: Understanding the Replicative Transposition Mechanism of the Transposable Element \textit{mPing}
\textbf{Lisette Payero}
Mentored by Dr. C. Nathan Hancock

12:00  Honors: Cloning an Anti-HIV Vif siRNA to Prevent Vif Association with APOBEC3
\textbf{Kirstyn Denney}
Mentored by Dr. William Jackson

\textbf{12:15}  \textbf{BREAK}
Moderators – Clint Page and Titan Paul

12:30  Developing a Yeast One-hybrid Assay for Evaluating Protein Binding to the \textit{mPing} Transposable Element
\textbf{Jacob Michael Reagin}
Mentored by Dr. C. Nathan Hancock

12:45  The Effects of Caffeine and Sugar Consumption with and without Exercise on Muscle Growth and Bone Density in Rats
\textbf{Jonathan Hayes Rodgers}
Mentored by Dr. Michelle Vieyra

13:00  Effects of Sugar, Caffeine, and Exercise on Anxiety and Memory in Rats
\textbf{Marissa Gross}
Mentored by Dr. Michelle Vieyra

13:15  Measuring the Effects of Caffeine and Exercise on Metabolic Disturbances in Rats Fed a Sucrose Solution
\textbf{Emily Mele}
Mentored by Dr. Michelle Vieyra

13:30  Honors: Correlation of the rs4988235 C/T Single Nucleotide Polymorphism with Lactose Intolerance
\textbf{Michaela Treadway}
Mentored by Dr. C. Nathan Hancock
Session B: Library 108
Moderator – Deborah McMurtrie

9:15  Honors: Gifted and Talented Students in the Mathematics Classroom
Angelina Martin
Mentored by Dr. Bridget Coleman

9:30  Social Media and its Effects on Social Interactions
Brooklin Kuipers, Sydney Royer, Dyneise Conner-Johnson, Drew Epps,
James Stukes, and Pervis Walker
Mentored by Dr. Ben Triana

9:45  Does the Mass Media Perpetuate Negative Stereotypes with LGBTQIA Characters
Erica Link
Mentored by Dr. Ben Triana

10:00  Interracial Dating
Victoria Caldwell, Avery Macklin, David Belfield, and Brye Epley
Mentored by Dr. Ben Triana

10:15  Transfer Athlete Research Study
Amanda Nicole Giordano, Christian Aragon, and Conner Durden
Mentored by Dr. Ben Triana

10:30  BREAK
Moderator – Jeremy Culler

10:45  Psychoanalysis and the Evolution of Psychological Research Represented in Films
Kristen Ryan
Mentored by Dr. Jeremy Culler

11:00  Student Government Association
Tatiana Lane Griffin, Leah Boghosian, and Sydney Kate Murphy
Mentored by Dr. Ben Triana

11:15  African American Women and the Media
Brittany Alston
Mentored by Dr. Ben Triana

11:30  It’s Always Sunny for Feminism
Judah Londo
Mentored by Dr. Ben Triana

11:45  Fashion Forward
Sydia Baggit, Rhett Bernard, and Kimberley Jergenson
Mentored by Dr. Ben Triana

12:00  The Role of Music in Relation to the Identity of USCA Students
Michelle Scrborough, Gabrielle Scarborough, and QuaNikqwa Staley
Mentored by Dr. Ben Triana
12:15  **BREAK**  
Moderator - Jeremy Culler and Deborah McMurtrie

12:30  Moral Code Development in Atheism  
**Lindsey Kennedy, Austin Cheshire, and Kailey Spence**  
Mentored by Dr. Ben Triana

12:45  Traditional vs. Nontraditional Communication  
**Felicia Cretella**  
Mentored by Dr. Ben Triana

13:00  Social Media’s Effect on USC Aiken Students  
**Brittany Kibler, Jaleisa Williams, Frances Taylor, and Rebekah Powell**  
Mentored by Dr. Ben Triana

13:15  Honors: Separation of Church and Business: How America Has Extended the Political Principle to the Business World  
**Derek James Corder**  
Mentored by Dr. Kathy Mack

13:30  Honors: The True Myth: Christ’s Function as the Hero Archetype in Myth  
**David Broughton Corder**  
Mentored by Dr. Eric Carlson

13:45  The Systematic Marginalization of African American Males  
**Hannah E Jameson**  
Mentored by Dr. Deborah McMurtrie
Session C: Learning Commons
Moderator – Jessica Sullivan and Ken Roberts

9:00  Computational Analysis of Copper (II) Pyridylamide Compounds
   **Brett Anthony Smith**
   Mentored by Dr. Gerard Rowe

9:15  Zinc Oxide Nanoparticle Self-Assembly Efficiency with Substituted Carboxylic Acid Chains of Varying Length and Concentration
   **Raymond Anthony Parkman Jr.**
   Mentored by Dr. Nicholas Marshall

9:30  Honors: Temperature Dependence of the Visible Absorption of Methylene Violet Dye in Alcohols
   **James Connor Taylor**
   Mentored by Dr. Monty Fetterolf

9:45  Examining the Effects of Natural and Environmental Stressors on *Ambystoma opacum*
   **Mariela Muniz-Gonzalez**
   Mentored by Dr. Kristina Ramstad

10:00 Biodegradation of Mature Fine Tailings by the Microbial Consortium BioTiger™ and Final Solution Toxicity
   **Erin Peck**
   Mentored by Dr. Michele Harmon

   **David Hodges**
   Mentored by Dr. Jessica Sullivan

10:30  **BREAK**
Moderator – Doug White and Kristina Ramstad

10:45  Honors: Nest Monitoring of American Wood Storks via Remote Cameras
   **Michaela Elizabeth Day**
   Mentored by Dr. Kristina Ramstad

11:00 Reproductive Biology of Queen Triggerfish *Balistes vetula* from Puerto Rico
   **Laurielle Octavies Gibson**
   Mentored by Dr. Virginia Shervette

11:15  Honors: C- and N- Termini Truncation of 2,4'-Dihydroxyacetophenone Dioxygenase
   **Jason Weeks**
   Mentored by Dr. Kenneth Roberts

11:30  Honors: Raman Spectroscopy of Methyl-4-Dimethylaminobenzoate (MDAB) and Analogs in Four Solvents
   **Massiel Payero-Garcia**
   Mentored by Dr. Monty Fetterolf
11:45  Determination of Invasive Lionfish Species Composition in Western Atlantic Waters of the Southeastern U.S.  

McHale Donnelly Rich  
Mentored by Dr. Virginia Shervette

12:00  Honors: Crossbreeding Glycine max Varieties to Influence Insect Resistance  

Hannah Lubner Herlong  
Mentored by Dr. Andrew Dyer

12:15  \textbf{BREAK}  
Moderator – Kelly Gibson and Nick Marshall

12:30  Reproductive Biology of Redtail Parrotfish (Sparisoma chrysoperum) from the U.S. Caribbean  

Amanda Mazzie  
Mentored by Dr. Virginia Shervette

12:45  Dam! Impacts of a Local Reservoir on Fish Diversity  

David Tran  
Mentored by Dr. Virginia Shervette

13:00  Honors: Scale and Synchrony: Population Dynamics of Parasites of Bluegill Sunfish (Lepomis macrochirus) in Lake Strom Thurmond  

Alexis Moore  
Mentored by Dr. Derek Zelmer

13:15  Honors: An LC/MS Assay for the Quantification of Analytes in the DAD-Catalyzed Reaction  

Catherine Cave  
Mentored by Dr. Kenneth Roberts

13:30  Honors: A Comparison of Three Commercially Available SERS Substrates for the Detection and Analysis of Alkaloid Compounds  

Courtney Merz  
Mentored by Dr. Chad Leverette

13:45  The Veteran and Military Student Success Center: A Case Study in Social Media Marketing and Branding  

Josh Imholte  
Mentored by Dr. Ben Triana
Poster Session

**Poster 1**  The Women Behind the Witches: A Study and Response
*Anniebelle Lynn Quattlebaum*
Mentored by Dr. Katie Smith

**Poster 2**  Graphing with Animals: An Integration of Math, Science, and Literature
*Haley West*
Mentored by Dr. Bridget Coleman

**Poster 3**  Female Soldiers in the American Civil War: A Novel Approach
*Kristin Anna Kay Norris*
Mentored by Dr. Todd Hagstette

**Poster 4**  Mission Addition
*Somer Nicole Williams*
Mentored by Dr. Bridget Coleman

**Poster 5**  Interdisciplinary Learning Centers to Teaching Elementary Mathematics
*Alondra Martinez and Kaelah Primus*
Mentored by Dr. Bridget Coleman

**Poster 6**  The Effects of Exercise on Anxiety: A Review of Literature
*Erin Holley*
Mentored by Dr. Brian Parr

**Poster 7**  The Disproportionate Nature of Suicide: A Discussion of Mental Health In Men Throughout Time
*Joshua Grubb*
Mentored by Dr. Andrew Dyer

**Poster 8**  The Effect of Exercise on Schizophrenia: A Literature Review
*Hunter Christian Wilson*
Mentored by Dr. Brian Parr

**Poster 9**  The Effect of a Curved Non-Motorized Treadmill on Running Gate Length, Imbalance and Step Angle
*Kaitlyn Armstrong, Mallory Crews*
Mentored by Dr. Andrew Hatchett

**Poster 10**  Stroke Education
*Carrie Vomund, Nikki Hudgeons, Kristen Roberts, and Erica Stone*
Mentored by Dr. Mary Gaffney

**Poster 11**  The Effects of Exercise on Memory: A Review of Literature
*Rebecca Lee Fanning*
Mentored by Dr. Brian Parr
**Poster 12**  
Impact of the Anti-Vaccination Movement and Education on Receiving the HPV Vaccine  
*Jahna Martin Salvo, Kimberly Flanagan, Sara Maloy, and Lara Campbell*  
Mentored by Dr. Mary Gaffney

**Poster 13**  
Exercise and Bipolar Disorder: A Literature Review  
*Danielle Seals*  
Mentored by Dr. Brian Parr

**Poster 14**  
Home Births: A Good Candidate  
*Bethany Fordham*  
Mentored by Dr. Mary Gaffney

**Poster 15**  
Exercise and Concussions: A Literature Review  
*Laurel Adams*  
Mentored by Dr. Brian Parr

**Poster 16**  
Speciality Diets  
*Elizabeth Anna Congdon, Rickey DeLaigle, Angel Oquendopadaro, and Rachael Herring*  
Mentored by Dr. Mary Gaffney

**Poster 17**  
The Effect of Exercise on Sleep  
*Stephanie Hollis*  
Mentored by Dr. Brian Parr

**Poster 18**  
Identifying Sex Trafficking Victims in a Healthcare Setting  
*Haley Williamson, Hannah Lowe, and Erin Seigler*  
Mentored by Dr. Mary Gaffney

**Poster 19**  
The Butterfly Effect: The Reconstruction of the Food Pyramid  
*Davonte' Jenkins and Brittasia Simpson*  
Mentored by Dr. Patrick Gelinas

**Poster 20**  
Prescription Safety and Literacy  
*Jesli Cook, Hannah Baughman, Ashlyn Towner, and Shequita Morris*  
Mentored by Dr. Mary Gaffney

**Poster 21**  
Red, Threat, and Race Categorizations  
*Anna Deegan, Jessalin Good, and Hector Lopez-Lopez*  
Mentored by Dr. Adam Pazda

**Poster 22**  
Incidence of Workplace Violence in Nursing  
*Kayla Justus*  
Mentored by Dr. Mary Gaffney

**Poster 23**  
Mapping the Sand River Downstream Depositional Zone  
*Brooks Flickinger*  
Mentored by Dr. Jessica Sullivan
**Poster 24**  Extinction Delay and Reinstated Fear Generalization  
**Sarah Przywara and Collytte Cederstrom**  
Mentored by Dr. Ed Callen

**Poster 25**  What was Happening to Our Babies? Infant Mortality in Aiken County (1915-1920)  
**Deidra Jefferson**  
Mentored by Dr. Andrew Dyer

**Poster 26**  Reducing Anxiety in Pediatric Patients  
**Kevin Jared Stogner**  
Mentored by Dr. Mary Gaffney

**Poster 27**  Gender and Vehicle Type as Mediators for Aggression While Driving  
**Nicole Smith, Kristen Ryan, and Jamal Lopez**  
Mentored by Dr. Adam Pazda

**Poster 28**  Computer Vision Syndrome  
**Luke Nightwine, Grayson Goodwin, and Ciara**  
Mentored by Dr. Mary Gaffney

**Poster 29**  An Investigation into the Neuroscience of Emotion-processing Using Noninvasive Brain Stimulation: An HD-tDCS Study  
**Mason T. Rodriguez**  
Mentored by Dr. Alexandra Roach

**Poster 30**  Medication/Therapeutic Interventions to Benefit NAS  
**Peyton Smith, Dantravia Cuthbertson, and Chandra Cole**  
Mentored by Dr. Mary Gaffney

**Poster 31**  Conspicuous Conservation: Replication of Griskevicius et al. (2010)  
**Heather Nall**  
Mentored by Dr. Adam Pazda

**Poster 32**  Metformin versus Insulin for the Treatment of Gestational Diabetes  
**Ruby Simpson, Belmar Garcia-Lopez, and T'Keyah Martin-Jones**  
Mentored by Dr. Mary Gaffney

**Poster 33**  Intrinsic Motivation and Reading Improvement with At-risk Students  
**Collytte Cederstrom**  
Mentored by Dr. Adam Pazda

**Poster 34**  Simulation Training and Medication Errors in Emergencies  
**Sara Gainey, Rebecca Fabich, Brianna Valvano, and Alie Thompson**  
Mentored by Dr. Mary Gaffney

**Poster 35**  Effects of Facial Expression and Coloration on Electrodermal Activity  
**Gabrielle Gray, Sarah Przywara, and Collytte Cederstrom**  
Mentored by Dr. Adam Pazda
**Poster 36**  
Aging in Place and the Effects of Technology  
*Savannah Zerbel, Stephen Gordon, and Kenley Clark*  
Mentored by Dr. Mary Gaffney

**Poster 37**  
Vascular Risk Factors and the Effects of Anxiety on Inhibitory and Attentional Control using Virtual Reality Technology  
*Kiamondi Alecia Thomas*  
Mentored by Dr. Alexandra Roach

**Poster 38**  
The Importance of Medication Adherence with Heart Failure  
*Trenaysia Pearson*  
Mentored by Dr. Thayer McGahee

**Poster 39**  
The Influence of Depressive Symptoms on FRN Amplitude: An EEG Study  
*Cara Culpepper, Eliya Husid, and Jonathan Burton*  
Mentored by Dr. Laura Swain

**Poster 40**  
Understanding the Perception and Experience of Diversity  
*Nikia Rose Franklin*  
Mentored by Dr. Alexandra Roach

**Poster 41**  
The Influence of Induced Anxiety on Executive Functions Among Athletes and Novices Measured by the P3 Wave in a Go/NoGo Task  
*James Conley Waters Jr, Ty'Keyana Mickles, and Kaitlan Hozey*  
Mentored by Dr. Keri Weed

**Poster 42**  
Relationships between Social Media Use and Academic Achievement  
*Jessalin Good*  
Mentored by Dr. Adam Pazda

**Poster 43**  
Math Anxiety May Be Reduced With Awareness and a Positive Interpretation  
*Hope Adams, Lauren Carroll, Kellie White, and Rachel Hopkins*  
Mentored by Dr. Keri Weed

**Poster 44**  
The Effectiveness of Physiological Measures in Determining Deception  
*Lily Anzuoni*  
Mentored by Dr. Keri Weed

**Poster 45**  
Collegiate Preparedness and the Transition from High School to College  
*Brooke Turk, Rebecca Elizabeth Fanta, and Mercedes Lane Holmes*  
Mentored by Dr. Laura Swain

**Poster 46**  
The Effect of Acetaminophen on Pain Empathy and Mu Rhythm Suppression  
*Sara Anne McCommon*  
Mentored by Dr. Laura Swain

**Poster 47**  
Comparing the Causes of Death in 1921 and 1961 in Pennsylvania of 18 to 25 Year Olds  
*Chase Boulton*  
Mentored by Dr. Andrew Dyer
Poster 48  Death by Heart Complications in Years Surrounding the Great Depression
Reed Bentley Moseley and Emilie Thomas
Mentored by Dr. Andrew Dyer

Poster 49  "Taken Too Young"; Infectious Death Rates for Young Children in South Carolina and Pennsylvania During 1920-1940
Andrea Sightler and Brooke Inman
Mentored by Dr. Andrew Dyer

Poster 50  Suicide Rates After Black Tuesday: A Comparison Between Charleston, SC and Detroit, MI
Cara Culpepper and Catherine Gouge
Mentored by Dr. Andrew Dyer

Poster 51  Changes in Vegetation Based on Channel Area in the Sand River System of Hitchcock Woods
Shalyn Najjar and Bridgette Sullivan
Mentored by Dr. Jessica Sullivan

Poster 52  Deaths from Nephritis: Females and Males During the Great Depression in North Carolina and Utah
Bryanna Creech, Brittany Saunders, and Brianna Jefferson
Mentored by Dr. Andrew Dyer

Poster 53  An LC/MS Assay for the Quantification of Analytes in the DAD-catalyzed Reaction
Najha Smith and Catherine Cave
Mentored by Dr. Ken Roberts

Poster 54  Rate of Infectious Diseases: Northern vs. Southern Regions of the U.S from 1935-1955
MacKenzie Waterman and Kristen Carver
Mentored by Dr. Andrew Dyer

Poster 55  Examining the Number of Cardiovascular Disease Deaths in Charlotte Before and After the Implementation of US Dietary Guidelines Designed to Prevent Heart Disease
Tiffany Christian
Mentored by Dr. Andrew Dyer

Poster 56  Sugar Rush: Diabetes Related Deaths in Pennsylvania and South Carolina
Sterling Green
Mentored by Dr. Andrew Dyer

Poster 57  Effects of Vaccines on Infectious Diseases That Lead to Infant Mortality
Alexandra Capps and Caroline Kreider
Mentored by Dr. Andrew Dyer
Poster 58  Was the Sandman Colorblind: A Look at South Carolina’s Inter-World War Homicide Rates.  
**Nicholas Amadeus DeLoache**  
Mentored by Dr. Andrew Dyer

Poster 59  Rate of Heart Fatalities are not Different in Urban Vermont and Rural South Carolina During the 1920s  
**Ryan Ward**  
Mentored by Dr. Andrew Dyer

Poster 60  Coronary Heart Diseases Increase Over Time: Differences in Gender, Age, and Race in 1930’s and 1950’s  
**Maya Pencheva**  
Mentored by Dr. Andrew Dyer

Poster 61  The Rural South: Leading Causes of Death Among the Aging Population in SC and TX Between 1945 and 1951  
**Teresa Pritchard**  
Mentored by Dr. Andrew Dyer

Poster 62  Historical Ecology of Groves Creek Saltmarsh  
**Ronald Willis**  
Mentored by Dr. Jessica Sullivan

Poster 63  Infant Mortality in Aiken County from 1920-1950 Between Caucasians and All Other Races  
**Peter Candela**  
Mentored by Dr. Andrew Dyer

Poster 64  Bioaccumulation of Radiation in Gray Wolves (*Canis lupus*) and Raccoon Dogs (*Nyctereutes procyonoides*) within Areas Affected by the Chernobyl Nuclear Disaster  
**Charlotte King**  
Mentored by Dr. Kristina Ramstad

Poster 65  Assessing Genetic Population Structure of American Wood Storks  
**Austin Herbert**  
Mentored by Dr. Kristina Ramstad

Poster 66  Understanding the Function of *Kdm1a* Using CRISPR/Cas-9 in Zebrafish  
**Katlin Pugh**  
Mentored by Dr. April DeLaurier

Poster 67  The Persistence of Pellagra in Richland County vs. Aiken County  
**Emily Smith**  
Mentored by Dr. Andrew Dyer

Poster 68  Designing a Shuttle-vector to Clone shRNAs  
**Keileigh McMurray and Kylie Tager**  
Mentored by Dr. William Jackson
| Poster 69 | Determining the Role of *ldlrata* in Skeletal Development and Cholesterol Metabolism in Zebrafish  
**Kali Wiggins**  
Mentored by Dr. April DeLaurier |
|---|---|
| Poster 70 | Expression of Pro-apoptotic Bax in an HIV-1 Dependent Lentiviral Vector  
**Lance Dylan Reynolds**  
Mentored by Dr. William Jackson |
| Poster 71 | Determining the Effects of *PHF21a* in Craniofacial Development  
**Lacie Mishoe**  
Mentored by Dr. April DeLaurier |
| Poster 72 | Investigating the *mPing* Transposition Complex Through Overexpression of ORF1 and Transposase Proteins  
**Reese King**  
Mentored by Dr. C. Nathan Hancock |
| Poster 73 | Cloning an Anti-Rev shRNA to Inhibit HIV-1 Replication  
**Bethany Ann Jameson**  
Mentored by Dr. William Jackson |
| Poster 74 | Cloning Vif-resistant APOBEC3G into the Lentiviral Vector pLRed(INS2)R  
**Mckenzie Spires**  
Mentored by Dr. William Jackson |
| Poster 75 | Identifying Human Fecal Pollution Sources in the Horse Creek Watershed Using Quantitative PCR  
**Erin Annabeth Spivey**  
Mentored by Dr. Michele Harmon |
| Poster 76 | Analysis of F2 Activation Tagging Wheat Lines  
**Amanda Askins**  
Mentored by Dr. C. Nathan Hancock |
| Poster 77 | Improving the Transposition Efficiency of the *Harbinger3n_Dr* Transposable Element  
**Sarah Zamiela**  
Mentored by Dr. C. Nathan Hancock |
| Poster 78 | Analyzing a *Tol2*-based Activation Tag Construct  
**Allison Swiecki**  
Mentored by Dr. C. Nathan Hancock |
| Poster 79 | miRNA-Induced Gene Silencing Tagging in *Arabidopsis thaliana*  
**Karah Moulton**  
Mentored by Dr. C. Nathan Hancock |
**Poster 80**  
Analysis and Characterization of the 2,4'-Dihydroxyacetophenone Dioxygenase Catalyzed Reaction  
*Jason Alexander Weeks and Gabrielle Connor*  
Mentored by Dr. Ken Roberts

**Poster 81**  
The Mortality Rate of Influenza Before and After World War I  
*Jasmine Simmons*  
Mentored by Dr. Andrew Dyer

**Poster 82**  
The Effects of Vascular Risk Factors on Inhibitory Control in Cognitively Healthy Young Adults  
*Juliette Rose Seremak and Heather Nall*  
Mentored by Dr. Alexandra Roach

**Poster 83**  
Beer’s Law Analysis of the Visible Absorption Intensities of Methylene Violet in Alcoholic Solvents  
*Melanie Lynn Howe*  
Mentored by Dr. Monty Fetterolf

**Poster 84**  
Diazonium-functionalized Thin Films from the Spontaneous Reaction of p-phenylenebis(diazonium) Salts  
*Andres Rodriguez*  
Mentored by Dr. Nicholas Marshall

**Poster 85**  
IPE Capstone with NovaTech - Process Control  
*Keith Catotti, Charles Jarvis, and Travis Leischner*  
Mentored by Dr. Bethany Fralick

**Poster 86**  
Personnel Accountability System  
*Rachelle Aupont, Karly Kinard, and Jeffery Baker*  
Mentored by Dr. Bethany Fralick

**Poster 87**  
Child Mortality in Kentucky and Pennsylvania for 1935 and 1955  
*Tiffany Gomillion and Martis Simmons*  
Mentored by Dr. Andrew Dyer

**Poster 88**  
Augusta Concrete Block Capstone Group  
*Shivam Parikh, Andrew Pridgen, and Justin Pitts*  
Mentored by Dr. Bethany Fralick
With Gratitude

We wish to thank USC Aiken alumna, Ms. Celeste Suggs, for her generous contribution and continuous support of Research Day.

“I do believe that exposure educates us—exposure to information, to experiences, to different types of people of ways of living and to Research Day presentations—all these exposures give us different views. In sorting and comprehending these views, we are learning.”

- USC Aiken alumna

We also wish to thank the following:

**Research Day Organizing Committee:**

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- Prof. Jack Benjamin
- Dr. Edward Callen
- Dr. Michele Harmon

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- Stephanie Diaz

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