Business and Education Building
15-16 April 2021

Schedule of Events

Thursday, April 15, 2021
3:00pm -4:30pm  Poster Hanging (B&E Gym)

Friday, April 16, 2021
Poster Session 1 - 10:00 am – 11:00 am
Poster Session 2 - 11:30 am – 12:30 pm
Poster Session 3 - 2:30 pm – 3:30 pm

Sponsored by USC Aiken Alumni, Celeste Suggs
Poster 1 (Session 3) Bottom Line: The Triple Bottom Line
by Audrey Winters
Mentored by Dr. Santosh Nandi

Poster 2 (Session 1) Identifying the Location of ORF1 and TPase Proteins in Arabidopsis
by Tyneisha Bradley
Mentored by Dr. C. Nathan Hancock

Poster 3 (Session 3) Structure-Activity Relationships in the 2,4'-Dihydroxyacetophenone Dioxygenase Reaction
by Faith Oladejo
Mentored by Dr. Kenneth Roberts

Poster 4 (Session 1) Effects of ldlrap1a on lipid metabolism in zebrafish
by Cristen Curry
Mentored by Dr. April DeLaurier

Poster 5 (Session 3) Computational predictions of the intermediates in the reaction of di-copper(I) compound with carbon dioxide
by Lauren Miko
Mentored by Dr. Gerard Rowe

Poster 6 (Session 1) Testing of a siRNA targeted to HIV Rev
by Meghann Williams
Mentored by Dr. William Jackson

Poster 7 (Session 3) Exercise and Meditation Effecting Depression
by Emya Morant
Mentored by Dr. Brian Parr

Poster 8 (Session 1) Exploring Bipolar Disorder in Students
by Adam Eubanks
Mentored by Dr. Melissa Martin

Poster 9 (Session 3) The effects of Exercise on Dementia and Alzheimer's
by Ronald Golding
Mentored by Dr. Brian Parr

Poster 10 (Session 1) Generalized Anxiety Disorder and our Students
by Jamilynn Hiers
Mentored by Dr. Melissa Martin

Poster 11 (Session 3) Design, cloning, and testing of an anti-HIV-I Rev small interfering RNA
by Kylie Tager
Mentored by Dr. William Jackson

Poster 12 (Session 1) Exploring Dissociative Disorder in Schools
by Deanna McCord
Mentored by Dr. Melissa Martin
Poster 13 (Session 3) Investigating the Function of the zmym2 Gene in Developing Zebrafish  
by Larissa Arias  
Mentored by Dr. April DeLaurier

Poster 14 (Session 1) How Selective Mutism Impacts a Child in the School System  
by Skyla Watson  
Mentored by Dr. Melissa Martin

Poster 15 (Session 3) Dyin' How They Lived: How Your Occupation Determined How Perished In 1920s-30s Aiken County  
by Amber Bussey  
Mentored by Dr. Andrew Dyer

Poster 16 (Session 1) Examining the Performance of the Multi-Core Workstation and High-Performance Computing  
by Keith McBride and Christopher Brunswick  
Mentored by Dr. Bethany Fralick

Poster 17 (Session 3) Analyzing the anti-retroviral activity of a pro-apoptotic HIV-based expression system  
by Madison Carelock  
Mentored by Dr. William Jackson

Poster 18 (Session 1) Continuous Improvement and RCM of SRTE Ice Plant  
by Adam Harley, Cameron Bedenbaugh and Matthew Beeler  
Mentored by Dr. Bethany Fralick

Poster 19 (Session 3) Creating a HIV-dependent mCherry reporter control plasmid  
by Campbell Crook  
Mentored by Dr. William Jackson

Poster 20 (Session 1) Characteristics of a Competitive Baton Twirler  
by Alexis Dicks  
Mentored by Dr. Andrew Hatchett

Poster 21 (Session 3) Genomic Population Structure of the American Wood Stork  
by Erin Doran  
Mentored by Dr. Kristina Ramstad

Poster 22 (Session 1) Effect of Exercise on Depression  
by Andrew Kolczynski  
Mentored by Dr. Brian Parr

Poster 23 (Session 3) Deaths of Aiken and Charleston County: Looking at a cohort of men born in 1900  
by Harley King  
Mentored by Dr. Andy Dyer
Poster 24 (Session 1) The Effects of Exercise on Depression  
by Nicholas Sanders  
Mentored by Dr. Brian Parr

Poster 25 (Session 3) The Effect of BUD8 and TAL1 on Transposition  
by Zara Lacera  
Mentored by Dr. C. Nathan Hancock

Poster 26 (Session 1) The Effect of Exercise and Cognitive Thinking  
by Jordan Thompson  
Mentored by Dr. Brian Parr

Poster 27 (Session 3) Tissue culture treatment of wheat to induce mobilization of an mPing based activation tag.  
by Angela Plemmons  
Mentored by Dr. C. Nathan Hancock

Poster 28 (Session 1) Cognitive Function and Exercise  
by Abby Williams  
Mentored by Dr. Brian Parr

Poster 29 (Session 3) Determining the role of goosecoid in craniofacial skeletal development in zebrafish  
by Chasey Shabdue  
Mentored by Dr. April DeLaurier

Poster 30 (Session 1) The Effect of Exercise Environment on Health: A Review of the Literature  
by Kimberly Zorn  
Mentored by Dr. Brian Parr

Poster 31 (Session 3) Egg specific expression of ORF1 and Transposase in Arabidopsis.  
by David Weidner  
Mentored by Dr. C. Nathan Hancock

Poster 32 (Session 1) The Impact of COVID-19 Precautions on Social Anxiety  
by Ashton Blush  
Mentored by Dr. Maureen Carrigan

Poster 33 (Session 2) Community Acquired Pneumonia and the Pneumococcal Vaccine  
by Amanda Bates, Victoria Riddle, Richatta Holmes and Erica Faircloth  
Mentored by Dr. Mary Gaffney

Poster 34 (Session 3) Synthesis of new pyridine amide compound for metal organic frame-work  
by Andrew Fuller  
Mentored by Dr. Gerard Rowe

Poster 35 (Session 2) Racial Disparities and Perinatal Outcome  
by Ti'Aunte Bethea, Sophie King and Kayla LaCroix  
Mentored by Dr. Mary Gaffney
Poster 36 (Session 3) Long Lost Loved Ones  
by Jennifer Farrer  
Mentored by Dr. Andrew Dyer

Poster 37 (Session 2) Utilizing Bacteriophage to Inhibit Bacterial Growth  
by Madison Ackroyd  
Mentored by Dr. Charles Hancock

Poster 38 (Session 3) No Doctor Present: A comparison of location and race in South Carolina in 1925  
by Bailey Hamilton  
Mentored by Dr. Andy Dyer

Poster 39 (Session 2) Developing and testing an HIV-based tBid expression system to selectively induce apoptosis  
by Nina Adams  
Mentored by Dr. William Jackson

Poster 40 (Session 1) SWOT Analysis of the South Carolina Emergency Management Division  
by Evan Jenkins  
Mentored by Dr. Sarah Young

Poster 41 (Session 2) Differences in Death Certificate Detail Among Black and White Americans in the 1950s and 1960s  
by Daija Bryant  
Mentored by Dr. Andrew Dyer

Poster 42 (Session 3) Measuring Sedimentation Along the Congaree River, SC  
by Juan Maldonado  
Mentored by Dr. Jessica Sullivan

Poster 43 (Session 2) Cloning and Testing of an Anti-HIV Vif Short Hairpin RNA  
by Caroline Cockrell  
Mentored by Dr. William Jackson

Poster 44 (Session 3) Can drones be used to estimate the hatching success of WOST?  
by Hannah Mayo  
Mentored by Dr. Kristina Ramstad

Poster 45 (Session 2) Cloning firefly luciferase as a reporter gene in plasmids that will be used to test HIV-dependency  
by Andrew Gregory and Kaitlynn Cook  
Mentored by Dr. William Jackson
Poster 46 (Session 3) The Influence of Penicillin on Child Death Rates Before and After 1945
by Tanner Starnes
Mentored by Dr. Andy Dyer

Poster 47 (Session 2) Does the Nuclear Export Signal Affect Harbinger Transposition in Human Cells?
by Dania Hailat
Mentored by Dr. Priscilla Redd and C. Nathan Hancock

Poster 48 (Session 3) Exploring Child Mortality Rates Between Races: Aiken South Carolina Over the Years
by Erica Jamerson
Mentored by Dr. Andy Dyer

Poster 49 (Session 2) Cloning and testing the effects of Tat siRNAs on a HIV-dependent reporter gene
by Q'May Qourters
Mentored by Dr. Q'May Qourters

Poster 50 (Session 3) Examining the Implementation of Mindfulness Activities on Achievement and Social-Emotional Learning for Students with Disabilities
by Emily Bostedor
Mentored by Dr. Melissa Martin

Poster 51 (Session 2) Exercise and Anxiety Disorder
by Markayla Davis
Mentored by Dr. Brian Parr

Poster 52 (Session 3) Advocating for Students with Mental Health Issues
by Gracie Taylor
Mentored by Dr. Deborah McMurtrie

Poster 53 (Session 2) Post COVID-19 Business Plan Proposal for Small Town Gym
by Brittany Temples
Mentored by Prof. Brent Hoover

Poster 54 (Session 3) Monitoring and Control System DCS Upgrade (SRNL)
by John Bunch, Christopher Mills and Daniel Stevens
Mentored by Dr. Bethany Fralick

Poster 55 (Session 2) Economics and Child Mortality: Comparing Aiken and Hampton Counties in 1915 and 1935
by Erykah Buckner
Mentored by Dr. Andy Dyer

Poster 56 (Session 3) Stability of Al2O3 Nanofluids
by Caroline Dempsey
Mentored by Dr. Titan Paul

Poster 57 (Session 2) Respiratory Hellfire: Infectious Disease Deaths in Children and Young Adults during the 1920s and 1950s
by Joseph Costello
Mentored by Dr. Andrew Dyer
Poster 58 (Session 3) The Stability of Nanoparticles in Base Fluids
by James Hale and Andrew Kricke
Mentored by Dr. Titan Paul

Poster 59 (Session 2) The Effect of Race on Medical Diagnosis Across Southern Counties in the Last 100 Years
by Zachary Dabbs
Mentored by Dr. Andy Dyer

Poster 60 (Session 3) Stability of Ionic Liquid Based Nanofluids Using UV Spectroscopy
by Anna Hawcroft
Mentored by Dr. Titan Paul

Poster 61 (Session 2) The Effect of Infectious Diseases on Race and Gender in Rural Edgefield County
by Maxwell Marsh-Upson
Mentored by Dr. Andrew Dyer

Poster 62 (Session 3) Radiative properties of Al2O3 Nanoparticles Enhanced Ionic Liquids (NEILs) for direct absorption solar collectors
by Melanie Howe
Mentored by Dr. Titan Paul

Poster 63 (Session 2) 1918 Pandemic: Age comparison of Men and Women
by Samantha Pollack
Mentored by Dr. Andrew Dyer

Poster 64 (Session 3) Quantifying Physical Fitness and Functional Fitness Deficits in Adults
by Brynn Bonner and Matthew Osborn
Mentored by Dr. Brian Parr

Poster 65 (Session 2) Media’s Impact on School Performance
by Andrew Putman
Mentored by Dr. Anne Poplin

Poster 66 (Session 3) Effects of Exercise and the Recovery of Traumatic Brain Injury
by Mark Griggs
Mentored by Dr. Brian Parr

Poster 67 (Session 2) Advanced High School Courses' Impact on Anxiety: Classes of 2012-2020 and 2021-2024
by Shelton Schutte
Mentored by Dr. Anne Poplin

Poster 68 (Session 3) Quality of Life with LVADs
by Cameron Nunnery, Walker Buist and Kyle Ready
Mentored by Dr. Mary Gaffney

Poster 69 (Session 2) Creation of a CIP Method for the Heat Exchangers at Rolls-Royce
by Caroline Dempsey, Melanie Howe and Austin Locklear
Mentored by Dr. Bethany Fralick
Poster 70 (Session 3) Mental Health Consequences of COVID-19 on the Aging Population
by Kayla Patterson, Aelina Clark and Tess Husen
Mentored by Dr. Mary Gaffney

Poster 71 (Session 2) Monitoring Computer Information and Settings
by Jeffrey Lipford
Mentored by Dr. Zhenheng Li

Poster 72 (Session 3) Nursing Burnout Related to COVID-19
by Morgan Powell, Jada Lee and Torie Bell
Mentored by Dr. Mary Gaffney

Poster 73 (Session 2) SRNL Tool Design Process
by Daniel Nwachukwu, Christopher Seigler and Aaron George
Mentored by Dr. Bethany Fralick

Poster 74 (Session 3) Medication Adherence with the Use of Smartphone Apps
by Ann Ray, Ashley Eldredge and Daija Gary
Mentored by Dr. Mary Gaffney

Poster 75 (Session 2) Metal-Organic Frameworks in Nuclear Packaging: A Design Supporting the Practical Use of Experimental Materials in Nuclear Packaging
by Mallorie Prandy, Alexander Hart and Quin-Tasia Utsey
Mentored by Dr. Bethany Fralick

Poster 76 (Session 3) The Effects of Exercise on ADHD
by Tyler Rembowski
Mentored by Dr. Brian Parr

Poster 77 (Session 2) Quantifying Physical Fitness and Functional Fitness Deficits in Adults
by Brynn Bonner and Matthew Osborn
Mentored by Dr. Brian Parr

Poster 78 (Session 3) Exercise and Dementia
by Kennedy Smith
Mentored by Dr. Brian Parr

Poster 79 (Session 2) BMI Relationship to Forced Vital Capacity (FVC), Forced Expiratory Volume (FEV1), and Forced Expiratory Flow (FEF) in University Students
by Catherine Garvin
Mentored by Dr. Christopher DeWitt

Poster 80 (Session 3) Co-morbidities as Predictors of COVID-19 Mortality
by Hannah Sommer, Nicole Moore and Mikayla Morales
Mentored by Dr. Mary Gaffney
Poster 81 (Session 2) How Has the Culture of Hip-Hop Music Helped to Influence a Sense of Being in African American Adolescents in the CSRA Through a Use of Parasocial Interactions and Social Cognitive Theory in 2020?
by Kennedy Brown
Mentored by Dr. Anne Poplin

Poster 82 (Session 3) Hypercoagulopathies and Covid 19
by Nathaniel Tate, Alyce Goldman and Melissa Munoz
Mentored by Dr. Mary Gaffney

Poster 83 (Session 2) The Inequality of Climate Change
by Breanna Florido
Mentored by Dr. Christine Wernet

Poster 84 (Session 3) Intravenous Drug Users with Infective Endocarditis: Treatment, Recurrence, and Mortality
by Cassidy Tronco, Mika Alday and Katyra Holden
Mentored by Dr. Mary Gaffney

Poster 85 (Session 2) World War I Trench Art as a Reflection of the Individual Themes in Soldiers First-Hand Accounts
by Savill Jensen
Mentored by Dr. Anne Poplin

Poster 86 (Session 3) Smart Infusion Pumps and Safe Medication Administration
by Skyler Baker, Amanda DeLuca and Katey Rogers
Mentored by Dr. Mary Gaffney

Poster 87 (Session 2) Different Generations’ Media Use: A Phenomenological Study
by Kara Loyd
Mentored by Dr. Anne Poplin

Poster 88 (Session 3) Imposter syndrome and new graduate nurses
by Megan Martin
Mentored by Dr. Mary Gaffney

Poster 89 (Session 2) What are the lived experiences of students in Advanced Placement classes at an academically gifted high school, regarding workload and their lives outside of class, from 2019-2020?: A phenomenology
by Mika Mayo
Mentored by Dr. Anne Poplin

Poster 90 (Session 3) Evaluation of PC-CARE, a dyadic parenting intervention for young children in foster care
by Emma Swanson
Mentored by Dr. Bridget Cho

Poster 91 (Session 2) Stroke Mortality in Aiken: 1930 vs 1950
by Destenny Savoris
Mentored by Dr. Andrew Dyer
With Gratitude

We wish to thank UofSC Aiken alumna, Ms. Celeste Suggs, for her generous contribution and continuous support of Scholar Showcase.

We also wish to thank the following:

**Scholar Showcase Organizing Committee:**
- Dr. Bill Jackson
- Dr. C. Nathan Hancock
- Dr. Jeremy Culler
- Dr. Michele Harmon

**Technical Assistance**
- Prof. Brad Reinhart

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