Friday, April 12, 2013
12-5 pm

Oral Presentations – Humanities and Social Sciences
SAC Mezzanine
1:00-3:10 pm

Session 1
Prof. Jack Benjamin, Presiding

1:00  A Poet, a Potter, and a Slave: What David Drake Can Teach Us
     Brianna Arnone (English Major), Jennifer Gilmore (English Major)
     Faculty Mentor: Dr. Tom Mack

1:20  Hickman Hall: The Heart of Graniteville
     Jonathan Larry (Business Administration Major)
     Faculty Mentor: Prof. Karen Edgington

1:40  Plato's Receptacle Examined by Ancient, Modern, and Feminist Philosophers
     Michelle Pakla (Fine Arts Major)
     Faculty Mentor: Dr. David Dillard-Wright

Break – 10 minutes

Session 2
Prof. Jack Benjamin, Presiding

2:10  "Snow White" and "Beauty and the Beast" - A Feminist Look at the Evolution of Fairy Tales
     Kayla Pruitte (Communications Major)
     Faculty Mentor: Dr. Jill Hampton

2:30  James Matthews Legare: Poet and Inventor
     Tayler Rodgers (English Major)
     Faculty Mentor: Dr. Tom Mack

2:50  Creating Intertextuality with Visual Rhetoric: Adapting a Novel into a Graphic Novel
     Delicia Williams (English Major)
     Faculty Mentor: Dr. Matthew Miller
Oral Presentations – Sciences  
SAC Mezzanine  
12:00-3:30 pm

Session 1  
Dr. Edward Callen, Presiding

12:00  **Pacing Strategy: The Effect of Teleoanticipation on Performance**  
Andrew Littlefield (Exercise Science Major)  
Faculty Mentor: Prof. Patrick Gelinas

12:20  **Ping and Pong ORF 1 Domain Swapping to Determine the Role of DNA Binding and Nuclear Localization in mPing Transposition**  
Giselle Outten (Biology Major)  
Faculty Mentor: Dr. Nathan Hancock

12:40  **Design and Synthesis of a 1,4,7-Triazacyclononane Ligand for Use in Models of Type 2-Cu-Nitrite Reductase**  
Sarah Weaver (Chemistry Major), Shelby Fuller  
Faculty Mentor: Dr. Gerard T. Rowe

Break – 10 minutes

Session 2  
Dr. Edward Callen, Presiding

1:10  **Determining Transposition Promoting Regions Based on Recombinant mPing and mPong Constructs**  
Kristian Pickrel (Biology Major)  
Faculty Mentor: Dr. Nathan Hancock

1:30  **Sweet Tooth or Artificial Sweetener Craving: Replacing Sugar with Artificial Sweeteners**  
Margaret McCoy (Nursing Major)  
Faculty Mentor: Prof. Iris Walliser

1:50  **The Effects of Various Promoters on mPing Transposition in Arabidopsis**  
Keifer Richardson (Biology Major)  
Faculty Mentor: Dr. Nathan Hancock

Break – 10 minutes
Session 3
Dr. William H. Jackson, Presiding

2:20 The Presence of Glyphosate-Resistance Weed Seeds in Commercial Potting Soils
Katherine I. Layne (Biology Major)
Faculty Mentor: Dr. Andrew Dyer

2:40 How Well Do Science Freshmen Understand Source Citation?
Brittany Cheeks (Biology Major)
Faculty Mentor: Dr. Michelle Vieyra

3:00 Evidence of Genetic Variation and Adaptive Phenotypic Plasticity in Two California Annual Invasive Grasses
Shana Woodward (Biology Major)
Faculty Mentor: Dr. Andrew Dyer

Poster Session
SAC Lobby
12:00-3:30 pm
(All posters will be on display from 12:00-3:30 pm. Authors in Session 1 should be present from 12:30-2:00 pm. Authors in Session 2 should be present from 2:00-3:30 pm)

Session 1
12:30-2:00 pm

(RD-1) Visually Evoked Potential Test Parameters and Clinical Implications
Austin Kaiser (Psychology Major), Alan Saul
Faculty Mentor: Dr. Dawn A. Morales

(RD-2) Phaseolus acutifolius Transformation
Courtney Burckhalter (Biology Major)
Faculty Mentor: Dr. Nathan Hancock

(RD-3) Investigations into Analogs of EDAB as Raman Spectroscopic Probes of Solvent/Solute Interactions
Shanna Henson (Chemistry Major)
Faculty Mentor: Dr. Monty Fetterolf

(RD-4) Helping Recently Deployed Service Members with Symptoms of Traumatic Brain Injury and Post-Traumatic Stress Get Better with Writing.
Angel Legare (Psychology Major), Maliah Smith, Joel Raintree, Scott Mooney
Faculty Mentor: Dr. Dawn A. Morales
Soda and Candy for Breakfast – A Nutritional Assessment of Popular Children’s Breakfast Foods
Brittney Austin (Exercise and Sports Science Major)
Faculty Mentor: Dr. Brian Parr

Dose Dependent Effects of Caffeine on Cognitive Performance and Neuronal Activation
Stephan Albrecht (Biology and Psychology Major), Helen Morris
Faculty Mentor: Dr. Michelle Vieyra

The Temperature Dependence of the Solvatochromism of Methylene Violet in Alcoholic Solvents
Ashleigh Kimberlin (Chemistry Major)
Faculty Mentor: Dr. Monty Fetterolf and Dr. Gerard Rowe

An Examination of Gender and Dispositional Hurt Differences in Utilization of Coping Strategies
Sarah Norris (Psychology Major)
Faculty Mentor: Dr. Laura N. May

The Relationship of Heart Rate and Blood Pressure Between Children and Adults
Craig D. Ross (Exercise and Sports Science Major)
Faculty Mentor: Dr. Christopher M. DeWitt

The Relationship Between Child Sexual Abuse and Self-Esteem in College Students
Karolta Duffy (Nursing Major)
Faculty Mentor: Dr. Linda Heraldo-Gacad

Targeted Insertion of the mPing Transposable Element
Ashley Strother (Biology Major), David Gilbert
Faculty Mentor: Dr. Nathan Hancock

Does the Reality Television Show “16 and Pregnant” Portray the Reality of Being a Teen Mom?
Shelby N. Smith (Psychology Major)
Faculty Mentor: Dr. Keri Weed

Synthesis of a Diels-Alder Cycloadduct; 9-aza-1,4-oxidobicyclo[4.4.0]dec-2-ene Using Trityl Chloride as a Steric Buttress.
Tripp Warrick (Chemistry Major), Michael Lancaster, Amir Abdulaziz, Stacee Kingsberry
Faculty Mentor: Dr. Nandeo Choony
**Session 2**
2:00-3:30 pm

(RD-14) **Response Effort and Prevention in Activity - Based Anorexia in Rats**  
Nicole Streeb (Psychology/Business Management Major)  
Faculty Mentor: Dr. Edward Callen

(RD-15) **Reinstated Fear Increases Over Time**  
Nicole Streeb (Psychology/Business Management Major)  
Faculty Mentor: Dr. Edward Callen

(RD-16) **The Effect of Selectively Expressed Pro-Apoptotic tBid on 293T cells Expressing HIV-1 Tat**  
Claudia Fulmer (Biology Major)  
Faculty Mentor: Dr. William H. Jackson

(RD-17) **Developing a DNA-Transposon Based Gene Delivery System**  
DeAnndra Pickens (Biology Major)  
Faculty Mentor: Dr. William H. Jackson

(RD-18) **Comparison of Nutritional Quality in Fast Food and Casual Dining Restaurants**  
Kyle Sprow (Exercise and Sports Science Major)  
Faculty Mentor: Dr. Brian Parr

(RD-19) **Exploring Properties of in vitro Point Mutations in the Drosophila Protease Gastrulation Defective**  
Rachel Roberts (Biology Major), Ellen LeMosy  
Faculty Mentor: Dr. William H. Jackson

(RD-20) **Analysis of the Ability of Tat-Dependent Bax to Induce Apoptosis**  
Priscilla Simon (Biology Major)  
Faculty Mentor: Dr. William H. Jackson

(RD-21) **A Colorful Story: Pigmented Sclerites from Gorgonians**  
Chris Perez (Chemistry Major)  
Faculty Mentor: Dr. Monty Fetterolf, Dr. Chad Leverette, Dr. Garriet Smith

(RD-22) **Quantitative Analysis of Expression from a Gene Cassette Controlled by the HIV-1 Promoter/Enhancer**  
Emily Bush (Biology Major)  
Faculty Mentor: Dr. William H. Jackson

(RD-23) **Bioaccumulation of Mercury in Crayfish (*Procambarus acutus*) Inhabiting a Site Polluted by a Coal-Burning Power Plant**  
Casey Garvin (Biology Major)  
Faculty Mentor: Prof. Brad Reinhart
Measuring the Comparative Effectiveness of Anti-HIV 1 Tat siRNAs
Alexander S. Jureka (Biology Major)
Faculty Mentor: Dr. William H. Jackson

The Effect of Patient Education and Use of Therapeutic Support Services in Decreasing Incidence and Severity of Foot Complications Associated with Diabetes Mellitus
Olivia Moyer (Nursing Major), Tina Jordan
Faculty Mentor: Dr. Linda Heraldo-Gacad

Anti-HIV Vif Activity Using Hammerhead Ribozymes Expressed from an RNA Polymerase III Promoter
Madison Sweet (Biology Major)
Faculty Mentor: Dr. William H. Jackson

Developing a DNA Transposon-Based Gene Delivery System
Emily M. Webb (Biology Major)
Faculty Mentor: Dr. William H. Jackson

Awards Ceremony: SAC Mezzanine, 4pm
With Gratitude

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

We also wish to thank the following for their assistance.

Prof. Jack Benjamin
Dr. Tara Beziat
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Dr. Tom Mack
Dr. Philip Mason
Ms. Carol McKay
Ms. Dale McCarthy
Dr. Brian Parr
Dr. Blanche Premo-Hopkins
Dr. Jeff Priest
Dr. Jane Stafford
Ms. Rachel Strickhouser
Prof. Brad Reinhart
Dr. Gerard Rowe

“I do believe that exposure educates us --- exposure to information, to experiences, to different types of people or 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, Ms. Celeste Suggs