

Research Day 2012

UNIVERSITY OF SOUTH CAROLINA AIKEN

...a Forum of Discovery

April 6th, 2012 Student Activities Center, 12:00-5:00 pm

Friday April 6, 2012 12-5 pm

Oral Presentations

SAC Mezzanine 1:00-3:30 pm

Session 1 Dr. Edward Callen, Presiding

- 1:00 A Stage Production: Franny and Zooey Ellice Whatley, English major Faculty Mentor: Dr. Matthew Miller
- 1:20 A Marriage of Two Popular Nanofabrication Methods, Physical Vapor Deposition and Electroless Deposition, for the Development of a Novel SERS-SEIRA Substrate Rachel Strickhouser, Chemistry major Faculty Mentor: Dr. Chad L. Leverette

1:40 African Americans and the United States Legal System Ryan Adams, History major Faculty Mentor: Dr. Maggi Morehouse

Break - 10 minutes

Session 2

Dr. Tom Mack, Presiding

- 2:10 A Putative Functional Model of Type II Copper Nitrite Reductase Alexander Brugh, Chemistry major Faculty Mentor: Dr. Gerard Rowe
- 2:30 **Determining the Prevalence of the Improper Use of Citations and Sources at Regional Science Fairs and Conferences** Brittany Cheeks, Secondary Education major Faculty Mentor: Dr. Michelle Vieyra
- 2:50 **Packaging Poe** Leah Stanley, English major Faculty Mentor: Dr. Tom Mack
- 3:10 **The Development of Social Relationships in Captive Male Giraffa camelopardalis** Amanda Steffen, Biology major Faculty Mentor: Dr. Michelle Vieyra

Poster Session

SAC Lobby 12:00-3:30 pm (All posters will be on display from 12:00-3:30 pm with authors present from 2:00-3:30 pm.)

- (RD-1) Synthesis of a Diels-Alder Cycloadduct, 8-aza-1,4-oxidobicyclo[4.3.0] non-2-ene, Using Trityl Chloride as a Steric Buttress David Dragano, Chemistry major Faculty Mentor: Dr. Nandeo Choony
- (RD-2) The Orion Molecular Cloud Brady Morris, English major Faculty Mentor: Dr. Stelios Kapranidis

(RD-3) **Gluten Free and Autism** Alisha Frazier, Nursing major Faculty Mentor: Dr. Thayer McGahee

- (RD-4) Response Interference and Activity-Based Anorexia in Rats Nicole Streeb, Psychology/Business Management Major Faculty Mentor: Dr. Edward Callen
- (RD-5) **The Effect of Lifestyle on Cognition in Aging** Christa Armfield, Psychology major Faculty Mentor: Dr. Echo Leaver
- (RD-6) Examining the Combined Impact of Hurt Disposition and Dispositional Jealousy on Emotional, Cognitive, and Behavioral Outcomes of Jealously Experiences Abigail Mojica, Psychology major Faculty Mentor: Dr. Laura N. May
- (RD-7) Women's Perceptions of How Having a Child as a Teenager has Impacted Their Lives Rebekah LeMay, Psychology major Faculty Mentor: Dr. Keri Weed
- (RD-8) Level of Executive Function Predicts Tendency to Perseverate Crystal Hamilton, Psychology major Faculty Mentor: Dr. Dawn Morales
- Using the Sleeping Beauty Transposon to Deliver HIV-1 Tatdependent GFP
 DeAnndra Pickens, Biology major
 Faculty Mentor: Dr. Bill Jackson

- (RD-10) Short Interfering RNAs Successfully Down-Regulate the HIV-1 Transactivator of Transcription in a Transient Luciferase Assay Alexander S. Jureka, Biology major Faculty Mentor: Dr. Bill Jackson
- (RD-11) Cloning of Pro-Apoptotic tBid into the Tat-Dependent Plasmid, pU3R Priscilla Simon, Biology major Faculty Mentor: Dr. Bill Jackson
- (RD-12) Comparing the Abilities of siRNA and Hammerhead Ribozymes to Reduce Vif Expression in a Cell Model Madison Sweet, Biology major Faculty Mentor: Dr. Bill Jackson

Awards Ceremony: SAC Mezzanine, 4pm

With Gratitude

We wish to thank USCA Alumna Ms. Celeste Suggs for her generous contribution and continuous support of Research Day.

We also wish to thank the following for their assistance.

Dr. Julia Ball Dr. Jack Benjamin Prof. Natalia Bowdoin Dr. Ed Callen Dr. Bing Han Dr. Nathan Hancock Dr. Bill Jackson Dr. Echo Leaver Dr. Chad Leverette Prof. Layech Mahfoudhi Ms. Carol McKay Dr. Dawn Morales Dr. Jeff Priest Prof. Brad Reinhart