2012 Undergraduate Research Competition Program

Coastal Carolina University
The Fourth Annual
Undergraduate Research Competition

Friday, March 30, 2012 through Saturday, March 31, 2012

• WHAT: Each session will include an 8-10 minute presentation by an undergraduate student followed by 5-7 minutes of Q&A.

• HOW: Each session will be judged based on the criteria listed on the Celebration website. Judges will be Coastal Carolina University faculty. Refer to www.coastal.ed/inquiry/2012/competition.html for evaluation criteria.

• WHERE: All undergraduate research competition sessions will be scheduled in two small case study rooms Wall 304, 318 and 322.

• WHEN: See schedule of times below. All sessions are scheduled back-to-back.

The top three ranked presentations will be awarded $500, $300 and $100. Award recognition will be on Saturday at 5:30 pm in Wall Auditorium after the Closing Session.

FRIDAY, MARCH 30

2:10 to 2:30 p.m. WALL 318
Claudia Ortuno and Abigail Smith
Faculty Mentor:
Alcohol and Energy Drinks

2:10 to 2:30 p.m. WALL 322
Jessica Cinardo
Faculty Mentor: Wes Fondren, Keira Williams
Handling Conflict: Males vs. Females

2:30 to 2:50 p.m. WALL 318
Russell Alston
Faculty Mentor: Carol Osborne
Sports or Scholarship: The Path to Success for the African-American Teen

2:30 to 2:50 p.m. WALL 322
Aliyyah Willis
Faculty Mentor: Eldred Prince, Jr.
Freedom in Education: the Movement to Educate the Freed Slaves during Reconstruction in the Pee Dee Area

2:50 to 3:10 p.m. WALL 322
Laura Clemmons
Faculty Mentor: Carol Osborne
Once Upon a Time in a Castle that Became a City: Modern Fairy Tales for Adolescents

3:10 to 3:30 p.m. WALL 304
Lisa Richardson
Faculty Mentor: George Lyerly
Energy Expenditure of Walking vs. Riding a Round of Golf in an Elderly Population

3:10 to 3:30 p.m. WALL 318
Haleigh Woodlief
Faculty Mentor: Michael Campbell
In Defense of Disney Princesses

3:10 to 3:30 p.m. WALL 322
Andrew Lesh
Faculty Mentor: Michael Campbell
Rumplestiltskin Rewritten

3:30 to 3:50 p.m. WALL 304
Jamie Roberson
Faculty Mentor: Michael Campbell
Red Riding Hood Revisited
3:30 to 3:50 p.m. WALL 318
Desmond Wallace
Faculty Mentor: Holley Tankersley
Midterm Elections Used to Gauge President’s Reelection Chances

3:30 to 3:50 p.m. WALL 322
Kevin Torres
Faculty Mentor: Carol Lane
Linking Knowing and Doing

3:50 to 4:10 p.m. WALL 304
Dominique de Wit and Tennia Walker
Faculty Mentor: Pamela Martin
Great Strides After Apartheid: The Economic Future of South Africa

3:50 to 4:10 p.m. WALL 318
Kaitlyn Zuilkowski
Faculty Mentor: Linda Palm
Social Distance as a Function of Mental Health Status and Gender of College Student Peers

3:50 to 4:10 p.m. WALL 322
Noelle Teramani
Faculty Mentor: Caroline Knight
The Importance of Non-Curriculum Classes in Elementary Students’ Lives

4:10 to 4:30 p.m. WALL 304
Rebecca Ringrose
Faculty Mentor: Dodi Hodges
Twenty-First Century Learning: Is Project Based Learning the Learning of the Future?

4:10 to 4:30 p.m. WALL 318
Lakesha Barnett
Faculty Mentor: Richard Aidoo
The Study of African Politics in Contemporary Global Affairs

4:10 to 4:30 p.m. WALL 322
Marilyn Sussmann
Faculty Mentor: JongHan Kim
When Body Meets Mind…
SATURDAY, MARCH 31

8:50 to 9:10 a.m. WALL 318
Heather Estep
Faculty Mentor: Rob Young
Tursiops Truncatus Population Structure at North Inlet, S.C.

8:50 to 9:10 a.m. WALL 322
Kyle St. Clair
Faculty Mentor: Kevin Xu
Sediment Grain Size Characteristics along the Louisiana-Texas Continental Shelf After the 2011 Mississippi River Flood

9:10 to 9:30 a.m. WALL 318
Cathy Nguyen
Faculty Mentor: Deborah Hutchinson
Dietary Sequestration of Defensive Toxins by the Asian Snake Rhabdophis tigrinus

9:10 to 9:30 a.m. WALL 322
Christopher McHugh
Faculty Mentor: Rich Viso
Assessing the Hydrogeological Controls on Submarine Groundwater Discharge in the Duplin River Estuary

9:30 to 9:50 a.m. WALL 318
Sean Gilroy and David Walling
Faculty Mentor: Paul Richardson
Genetic Fingerprinting of T4 Bacteriophage

9:30 to 9:50 a.m. WALL 322
Ina Troutman
Faculty Mentor: Paul Richardson
Searching for Prophylactic Bacteriophages that Infect and Lyse Staphylococcus aureus or Escherichia coli.

9:50 to 10:10 a.m. WALL 318
Joseph Cannon
Faculty Mentor: Paul Richardson
The Effects of Salinity, pH and Dissolved Oxygen on the Sensitivity of PCR

9:50 to 10:10 a.m. WALL 322
Lynsey Deudne and Harley Seeger
Faculty Mentor: Fang Ju Lin
The Neuroprotective Effects of EGCG and Nicotine on Drosophila

10:10 to 10:30 a.m. WALL 318
Devin Howard
Faculty Mentor: Vladislav Gulis
Wood Decomposition and Associated Fungal Biomass in SC Salt Marsh

10:10 to 10:30 a.m. WALL 322
Robert Louder
Faculty Mentor: Photocatalytic Activity of Zinc Oxide Thin Films

10:30 to 10:50 a.m. WALL 318
Jen Kisabeth
Faculty Mentor: Juli Harding.
Timing and Intensity of Crassostrea virginica Settlement in North Inlet and Dunn Sound, South Carolina 2011

10:30 to 10:50 a.m. WALL 322
Kevin Crowley
Faculty Mentor: David Evans
Co-Crystallization and Polymorphism of Naturally Occurring Peptide Derivatives

10:50 to 11:10 a.m. WALL 318
Lisa Brown
Faculty Mentor: Erin Burge
Macroalgae cover and composition correlated to densities of Diadema antillarum

10:50 to 11:10 a.m. WALL 322
Kelly Gregory
Faculty Mentor: Richard Peterson
Seasonal hypoxia in the nearshore zone of Long Bay: Groundwater discharge as a driving force

11:10 to 11:30 a.m. WALL 318
Shannon Kelly
Faculty Mentor: Fang Ju Lin
A Devastating Disease: Fibrodysplasia Ossificans

11:10 to 11:30 a.m. WALL 322
Lauren Haller
Faculty Mentor: Deborah Hutchinson
Lessons Not Learned: Knowledge Gaps and Risky Protocol in the Oil Industry
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>11:30 a.m.</td>
<td>WALL 318</td>
<td><strong>Carrie Wein</strong>&lt;br&gt;<em>Faculty Mentor: Rob Young</em>&lt;br&gt;Effects of “Ultrasound” on Completion of Difficult Cognitive Tasks in Relation to Dolphin Assisted Therapy</td>
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<tr>
<td>11:30 a.m.</td>
<td>WALL 322</td>
<td><strong>Kevin Kern</strong>&lt;br&gt;<em>Faculty Mentor: Louis Rubbo</em>&lt;br&gt;Multimessenger Astronomy: Modeling Gravitational and Electromagnetic Radiation From a Stellar Binary Source</td>
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<td>11:50 a.m.</td>
<td>WALL 318</td>
<td><strong>Kaitlyn Hofeldt</strong>&lt;br&gt;<em>Faculty Mentor: Keira Williams</em>&lt;br&gt;The impact of whaling on countries’ tourism industries</td>
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<td>11:50 a.m.</td>
<td>WALL 322</td>
<td><strong>Kelsey Couch</strong>&lt;br&gt;<em>Faculty Mentor: Craig Gilman</em>&lt;br&gt;The Effects of Significant Rainfall Events on Surface Dissolved Oxygen Concentrations Off the Coast of Long Bay in South Carolina</td>
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<td>12:10 p.m.</td>
<td>WALL 318</td>
<td><strong>Shawnee Lechliter</strong>&lt;br&gt;<em>Faculty Mentor: Megan Cevasco</em>&lt;br&gt;Kleptoplasty: A Symbiotic Relationship between Plastids and Foraminifera at Waties Island, SC</td>
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<td>12:10 p.m.</td>
<td>WALL 322</td>
<td><strong>Sarah Sexton</strong>&lt;br&gt;<em>Faculty Mentor: Tessa Weinstein</em>&lt;br&gt;Making Waves in Long Island Sound</td>
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<td>12:30 p.m.</td>
<td>WALL 318</td>
<td><strong>Melissa Sabbaugh</strong>&lt;br&gt;Faculty Mentor: Doug Van Hoewyk&lt;br&gt;The involvement of the 26S proteasome complex in selenium toxicity</td>
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<tr>
<td>12:50 p.m.</td>
<td>WALL 318</td>
<td><strong>Whitney Hucks</strong>&lt;br&gt;<em>Faculty Mentor: Linda Henderson</em>&lt;br&gt;U.S. Progress Toward IFRS</td>
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<tr>
<td>12:50 p.m.</td>
<td>WALL 322</td>
<td><strong>Rebekah Harding, Eric Morphy, Alex Hester, Amanda Mazzoni and Teyanna Lewis</strong>&lt;br&gt;<em>Faculty Mentor: Janice Black</em>&lt;br&gt;Inspiring Entrepreneurs</td>
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<td>12:50 p.m.</td>
<td>WALL 322</td>
<td><strong>Shayne Reddington</strong>&lt;br&gt;<em>Faculty Mentor: Shelia Mitchell</em>&lt;br&gt;Enron: The Smartest “Guise” in the Room</td>
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<td>1:10 p.m.</td>
<td>WALL 318</td>
<td><strong>Ly Pham</strong>&lt;br&gt;<em>Faculty Mentor: Linda Henderson</em>&lt;br&gt;Who is REALLY Doing Your Taxes?: Unveiling the use of outsourcing in accounting</td>
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<td>1:10 p.m.</td>
<td>WALL 322</td>
<td><strong>Kelsey Ritari</strong>&lt;br&gt;<em>Faculty Mentor: Bomi Kang</em>&lt;br&gt;Ecotourism in the Grand Strand</td>
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<td>1:30 p.m.</td>
<td>WALL 318</td>
<td><strong>Tiffani Cosson</strong>&lt;br&gt;<em>Faculty Mentor: Michael Collins</em>&lt;br&gt;Perceptions of Walt Disney World: Antecedents to Return Visits</td>
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<td>1:30 p.m.</td>
<td>WALL 322</td>
<td><strong>Janna Cole</strong>&lt;br&gt;<em>Faculty Mentor: Carol Megehee</em>&lt;br&gt;Investigating the Role of Online Social Media in Consumer-Firm Relationships</td>
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<td>1:50 p.m.</td>
<td>WALL 318</td>
<td><strong>Stephanie Wehrung</strong>&lt;br&gt;<em>Faculty Mentor: Shelia Mitchell</em>&lt;br&gt;The Effect of IFRS Convergence on Coastal Carolina University Students</td>
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<td>1:50 p.m.</td>
<td>WALL 322</td>
<td><strong>Mary Ewen</strong>&lt;br&gt;<em>Faculty Mentor: Andrew Weinbach</em>&lt;br&gt;“If You Build it, They Will Come” The Economic Impact of NFL Stadiums</td>
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</table>
2:10 to 2:30 p.m.  WALL 318
Kirsten Costello  
*Faculty Mentor: Taylor Damonte*
Can the Demand Problem Be Fixed? The Effect of Economic Crisis on the Lodging Sector of the Tourism Industry

2:10 to 2:30 p.m.  WALL 322
Shelby McGee  
*Faculty Mentor: Monica Fine*
Factors that Impact Consumers’ Attitudes Toward Quick Response Codes

2:30 to 2:50 p.m.  WALL 318
Christine Po, Katie Roach, Iesha Wade, Janel Reeves  
*Faculty Mentor: Sharon Thompson*
Positive Beings @ Palmetto Bays: Health Education in the Elementary School

2:30 to 2:50 p.m.  WALL 322
Taylor Epley  
*Faculty Mentor: Doug Van Hoewyk*
Analysis of a Neotropical Bromeliad Subjected to Drought

2:50 to 3:10 p.m.  WALL 318
Sean Manahan  
*Faculty Mentor: Pamela Martin*
Westernization and Muslims in Western Europe

2:50 to 3:10 p.m.  WALL 322
Jessie Benchley  
*Faculty Mentor:*  
Accuracy of Age Predicted Maximal Heart Rate Equations

3:10 to 3:30 p.m.  WALL 318
Joseph Pope  
*Faculty Mentor: Carol Osborne*
Teaching Graphic Novels as Literature to Adolescents

3:10 to 3:30 p.m.  WALL 322
Kristina Gray  
*Faculty Mentor: Carol Osborne*
An In-depth Look into the World of Adolescent Literature--What defines normality, and thus defines abnormality?

3:30 to 3:50 p.m.  WALL 318
Marilyn Sussmann  
*Faculty Mentor: Terry Pettijohn*
The Effects of Mate Attraction on Interest Towards Product Advertisements

3:30 to 3:50 p.m.  WALL 322
Justin Helton  
*Faculty Mentor: Eleanor Finnegan*
Women’s Activism in Saudi Arabia

3:50 to 4:10 p.m.  WALL 318
Kayla Martin  
*Faculty Mentor: JongHan Kim*
Sit or Stand? Perceived Impact of Situations in Relation to Body Position

3:50 to 4:10 p.m.  WALL 322
Jessica Humenik  
*Faculty Mentor: John Hutchens*
Does the Venus fly trap select prey based on size?

4:10 to 4:30 p.m.  WALL 318
Kate Dowling  
*Faculty Mentor: Jackie Sgambati*
Nutrition Knowledge Division 1 College Athletes at Coastal Carolina University

4:10 to 4:30 p.m.  WALL 322
Dea Kamberaj  
*Faculty Mentor: Terry Pettijohn*
Female Students’ Clothing Styles and their Effect on Perceived Intelligence by College Professors