2018 Celebration of Scholars:
Exposition of Faculty and Student Research, Scholarship and Creativity

Monday, August 20, 2018
11:30am - 1:30pm

Addlestone Library
First Floor
RPG Deadline
For conference travel during the following dates:

July 13
August 30
October 30
January 22
August 15–October 31
October 15–January 31
January 15–April 30
April 15–June 1

MAYS Deadlines
For project support during the following dates:

August 30
October 30
September 30–May 31
November 30–May 31

SURF Deadlines
For project support during the following dates:

February 6
May 14–August 17

CONSULTATION HOURS AND INFORMATION SESSIONS
Drop-in consultation hours are held in 6 Green Way, 2nd floor and are posted
on the URCA website: urca.cofc.edu
SURF Information Sessions will be held in Berry Residence Hall 104
Wednesday, January 9, 4:00-5:00 pm and Thursday, January 10, 4:00-5:00 pm

Contact us:
Office: 6 Green Way, 2nd Floor
Phone: 843.953.6592
Email: urca@cofc.edu
Website: http://urca.cofc.edu

For updates and information:
Follow us on Facebook:
https://www.facebook.com/urcaofc
Join the URCA group on Yammer
POSTER TITLES and PRESENTERS

1. *The Effects of Sertraline and Fluoxetine on Tadpole Behavior*
   **Student:** Jordan Bralley (Biology-SURF)
   **Faculty Mentor:** Allison Welch (Biology)

2. *Amphibian Community Composition along Coastal Salinity Gradients*
   **Student:** Mikayla Drost (Geology & Marine Biology-SURF)
   **Faculty Mentor:** Allison Welch (Biology)

3. *Evapotranspiration and Groundwater Modeling of a Floodplain Forest in South Carolina*
   **Student:** Emma Collins (Geology & Mathematics)
   **Faculty Mentor:** Tim Callahan (Geology & Environmental Geosciences)

   **Student:** Emily Anderson (English & Psychology-SURF, HSS, English & Honors)
   **Faculty Mentor:** Tim Carens (English)

5. *An Exploration of Maternal Factors Affecting Young Children’s Memory*
   **Students:** Grace-Anne West (Psychology-SURF)
   Tess Shymanksi (Psychology-SURF)
   **Faculty Mentor:** Daniel Greenberg (Psychology)

6. *Heme A Biosynthesis*
   **Students:** Hannah Addis (Biochemistry-SC-INBRE, SSM)
   Mason Huebsch (Biochemistry-SC-INBRE, SSM)
   **Faculty Mentor:** Jennifer Fox (Chemistry & Biochemistry)

7. *ATPase Afg1 Helps Maintain Protein Homeostasis in the Mitochondrial Matrix*
   **Student:** Mason Huebsch (Biochemistry-SC-INBRE, SSM)
   **Faculty Mentor:** Jennifer Fox (Chemistry & Biochemistry)

8. *Reactivity of Homologous Sulfohydrolases*
   **Student:** Abigail Reeves (Biochemistry-SURF)
   **Faculty Mentors:** Jennifer Fox (Chemistry & Biochemistry)
   Marcello Forconi (Chemistry & Biochemistry)

9. *Modification of thiols via nucleophilic aromatic substitution*
   **Student:** Jaclyn Dunne (Biology-SSM, SC-INBRE)
   **Faculty Mentor:** Marcello Forconi (Chemistry & Biochemistry)

10. *Kemp eliminase activity of heme systems*
    **Student:** Briana Taormina (Biochemistry-SURF)
    **Faculty Mentor:** Marcello Forconi (Chemistry & Biochemistry)

11. *Developing the Scene Design Process*
    **Student:** Ceili Hesselgrave (Theatre-SURF)
    **Faculty Mentor:** Charlie Calvert (Theatre & Dance)
12. **Singularity of Quaternionic 1-Solitons**  
   **Student:** Monique Sparkman (Mathematics-SURF)  
   **Faculty Mentor:** Alex Kasman (Mathematics)

13. **Quaternionic KdV 2-Soliton Interactions**  
   **Student:** John Cobb (Mathematics, Data Science, and Chemistry-SSM)  
   **Faculty Mentor:** Alex Kasman (Mathematics)

14. **A computational model of hippocampus lesions**  
   **Student:** Tristan Aft (Physics-SC-INBRE)  
   **Faculty Mentor:** Sorinel Oprisan (Physics & Astronomy)

15. **Generalized phase resetting phenomena in neural networks activity**  
   **Students:** Dave Austin (Physics-SC-INBRE)  
   Braylin Williams (Physics-Physics & Astronomy)  
   **Faculty Mentor:** Sorinel Oprisan (Physics & Astronomy)

16. **Optogenetic-based models for prefrontal cortex**  
   **Student:** Jessica Helms (Physics-SC-INBRE)  
   **Faculty Mentor:** Sorinel Oprisan (Physics & Astronomy)

17. **The Role of Brain Insulin in Functional Recovery After Stroke in Mouse Model of Hyperinsulinemia**  
   **Student:** Stacy Nguyen (Biology)  
   **Faculty Mentor:** Catrina Robinson (MUSC Neurology)

18. **The Subsurface Distribution of Geological Formations of the Charleston Peninsula, South Carolina**  
   **Student:** Reagen Desilets (Geology-SURF)  
   **Faculty Mentor:** Steven Jaume (Geology & Environmental Geosciences)

19. **Eudora Welty through Letters and Friendships: A Historian’s Perspective**  
   **Student:** Mary Scott Gilbert (History-SURF)  
   **Faculty Mentor:** Julia Eichelberger (English)

20. **Eudora Welty through Letters and Friendships: A Writer’s Experience**  
   **Student:** Estelle Rousefello (English-SURF)  
   **Faculty Mentor:** Julia Eichelberger (English)

21. **The Impact of Sertraline Hydrochloride on MC3T3-E1 Cells**  
   **Students:** Amanda Anyim (Biology-VA Merit Grant)  
   Ryan Kelly (Ph.D. Candidate-MUSC-VA Merit Grant)  
   **Faculty Mentors:** Amanda LaRue (MUSC-Pathology & Laboratory Medicine)  
   Renaud Geslain (Biology)

22. **Synthesis, Characterization, and Conformational Analysis of 1,1-dichloro-1-silacyclopent-3-ene**  
   **Student:** Austin Clark (Biochemistry-SSM)  
   **Faculty Mentor:** Gamil Guirgis (Chemistry & Biochemistry)
23. Preparation, characterization, FT–microwave spectra and conformational stability of 1, 1-difluoro-1-silacyclopent-2-ene and its Chloro, Fluoro derivatives
   **Student:** Trisani Mukhopadhyay (Biology-SURF)
   **Faculty Mentor:** Gamil Guirgis (Chemistry & Biochemistry)

24. Regulation of food intake and neuronal activation following intranasal leptin administration
   **Student:** Donzelle Benton (Biology-NSF-IOS)
   **Faculty Mentor:** Claudia Grillo (USC Medical School)

25. Effect of Intranasal Leptin Administration Upon Food Intake and Serotonin Turnover in the Rat Brain
   **Student:** Dylan Vaughan (Biology-NSF)
   **Faculty Mentor:** Claudia Grillo (USC Medical School)

26. Numerical Simulations of Neutron Star Type I X-Ray Burst Interactions with Accretion Disks
   **Student:** Aidan Blankenship (Astrophysics-NSF-AST & AST, SC NASA EPSCoR RGP, and NSF-ACI)
   **Faculty Mentor:** Chris Fragile (Physics & Astronomy)

27. Negative Jet Feedback in Dragonfly Galaxies
   **Student:** Quinn Dobson (Astrophysics-STScI Grant # HST-GO)
   **Faculty Mentor:** Chris Fragile (Physics & Astronomy)

28. Numerical Simulations of Black Hole Accretion Disk Precession
   **Student:** Payden Shaw (Astrophysics & Mathematics-SURF)
   **Faculty Mentor:** Chris Fragile (Physics & Astronomy)

29. Documenting LGBTQ Oral Histories in the Lowcountry
   **Student:** Alexandra Mielcarek (Public Health & Spanish-SURF, Donnelly)
   **Faculty Mentors:** Cara Delay (History)
                   Beth Sundstrom (Communication)

30. Multipurpose Web–Platform for Labeling Audio Segments Efficiently and Effectively
   **Student:** Griffin Hiers (Computer Science)
   **Faculty Mentor:** Ayman Hajjia (Computer Science)

31. Drawing Insights About Student Coding Practices from a Data-Driven Web–Platform
   **Student:** Austin Hunt (Computer Science-SSM)
   **Faculty Mentor:** Ayman Hajjia (Computer Science)

   **Students:** Lyndsey Prosser (Biochemistry-SSM)
                 Erin Day (Chemistry-SSM)
   **Faculty Mentor:** Neal Tonks (Chemistry & Biochemistry)
33. *Assessing Transfer RNA Stability During EMT*
   **Students:** Ian Cromwell (Biology-SC-INBRE, SSM)
   Jacob Goldmintz (Biology-SC-INBRE, SSM)
   Morgan Troiano (Biology-SC-INBRE, SSM)
   **Faculty Mentor:** Renaud Geslain (Biology)

34. *Post-eruption lightcurves of the classical novae V630 Sagittarii and V841 Ophiu*
   **Student:** Katherine Bruce (Physics & Astronomy-SURF)
   **Faculty Mentor:** Ashley Pagnotta (Physics & Astronomy)

35. *Long Term Photometry of the classical Novae X Serpentis and V1016 Sagittarii*
   **Student:** Bridget Ierace (Astrophysics & Physics-SSM)
   **Faculty Mentor:** Ashley Pagnotta (Physics & Astronomy)

36. *JythonMusic: An environment for developing interactive music systems*
   **Student:** Pangur Brougham-Cook (Computing in the Arts-SSM)
   **Faculty Mentor:** Bill Manaris (Computer Science)

37. *Creating a common coordinate system from multiple kinect sensors*
   **Student:** Kyle Stewart (Computer Science-SSM)
   **Faculty Mentor:** Bill Manaris (Computer Science)

38. *Chemical Interactions with Crumb Rubber: Implications for Environmental Monitoring and Risk*
   **Student:** Hayley Mazur (Marine Biology & Chemistry-SSM)
   **Faculty Mentor:** Barbara Beckingham (Geology & Environmental Geosciences)

39. *Green Lakes from Space: Monitoring Algal bloom in Charleston-Area Storm- water Ponds*
   **Student:** James Burke (Geology-SC Space Grant Consortium)
   **Faculty Mentors:** Barbara Beckingham (Geology & Environmental Geosciences)
   K. Adem Ali (Geology & Environmental Geosciences)

40. *Application of Sentinel-2 Multispectral Imager for Monitoring Water Quality Along Coral Reefs in the U.S. Virgin Islands*
   **Student:** Tanner Maharrey (Geology & Marine Biology-SSM)
   **Faculty Mentor:** K. Adem Ali (Geology & Environmental Geosciences)

   **Student:** Noah Katz (Geology-SSM)
   **Faculty Mentor:** K. Adem Ali (Geology & Environmental Geosciences)

42. *The Effect of an Unexpected Trunk Perturbation on Lower Extremity Landing Biomechanics in Healthy Adult Females*
   **Students:** Anastasia Miletich (Exercise Science-SURF)
   Elizabeth King (Exercise Science-EHHP CPIC Summer Research)
   **Faculty Mentor:** Kate Pfile (Health & Human Performance)
43. *Assessment of Mortality in Charleston during the 1918 Spanish Flu*
   **Student:** Samara Grimes (Public Health-SURF)
   **Faculty Mentor:** Brian Bossak (Health & Human Performance)

44. *Spectroscopy of Dipeptide Mimetics*
   **Student:** Celia Hamill (Chemistry-SSM)
   **Faculty Mentor:** Richard Lavrich (Chemistry & Biochemistry)

45. *Substitution of Backbone Chain Length Effects on the Strength of Intramolecular Hydrogen Bonding in Amino Alcohols*
   **Student:** Michael Harris (Psychology-SSM)
   **Faculty Mentor:** Richard Lavrich (Chemistry & Biochemistry)

46. *Photoredox Catalysis for Polyphenol Synthesis*
   **Student:** Emily McGee (Biochemistry)
   **Faculty Mentor:** Michael Giuliano (Chemistry & Biochemistry)

47. *Influence of Organic Materials on the Dissolution of Zinc Oxide Nanoparticles*
   **Student:** Emily Ramsayer (Biochemistry-SSM)
   **Faculty Mentor:** Katherine Mullahugh (Chemistry & Biochemistry)

48. *Sulfidation of Silver Nanoparticles by Metal Sulfides*
   **Student:** Heather Lieb (Chemistry-SSM)
   **Faculty Mentor:** Katherine Mullahugh (Chemistry & Biochemistry)

49. *Role of the Chelate Effect in the Affinity of Organic Material for Silver Nanoparticle Surfaces*
   **Student:** Bach Nguyen (Biochemistry-SURF)
   **Faculty Mentor:** Katherine Mullahugh (Chemistry & Biochemistry)

50. *Conceptions of Altruism across Western and Non-Western Countries*
    **Student:** Harper Richards (Psychology-SURF)
    **Faculty Mentor:** Jen Wright (Psychology)

51. *Adaptation of Halomonas desiderata to multiple extreme environments via lateral gene transfer*
    **Student:** Isabella Valente (Biology-SC-INBRE)
    **Faculty Mentor:** Matthew Rhodes (Biology)

52. *The effect of haloarchaea on ice cloud nucleating*
    **Student:** Lilyana Newman (Marine Biology-SURF)
    **Faculty Mentor:** Matthew Rhodes (Biology)

53. *An Automated System for Polyp Detection in Wireless Capsule Endoscopy Images based on Deep Learning*
    **Student:** Michael Lanier (Mathematics-SURF)
    **Faculty Mentor:** Mukesh Kumar (Mathematics)
54. *Investigating the Effect of Stellar Activity on Planetary Formation and Evolution*

**Students:** Blake Mino (Physics & Astronomy-SC Space Grant Consortium)
Dereck Morgado (Physics & Astronomy-SSM)

**Faculty Mentors:** Joseph Carson (Physics & Astronomy)
Ana Uribe (Physics & Astronomy)

55. *Investigating the Impact of Episodic Stellar Activity on Planet Formation and Evolution*

**Students:** Lucille Williamson (Astrophysics & Physics-SURF)
Will Ceva (Astrophysics & Physics- Palmetto Academy NASA Space Grant)
Aly Nida (Palmetto Academy High School)

**Faculty Mentors:** Joseph Carson (Physics & Astronomy)
Ana Uribe (Physics & Astronomy)

56. *3D Medical Imaging for the Early Detection of Cervical Cancer*

**Student:** Maxwell Rabe (Physics-SURF)

**Faculty Mentor:** Joseph Carson (Physics & Astronomy)

57. *Assessment of Select Trace Metals in Urban Road Dust in the Charleston Peninsula*

**Student:** Sarah Sneath (Geology-SSM)

**Faculty Mentor:** Vijay Vulava (Geology & Environmental Geosciences)

58. *Examining Water Pollution in Stormwater Ponds*

**Students:** Logan Richard (Geology-SSM)
Manny Byas (Geology-SSM)

**Faculty Mentor:** Vijay Vulava (Geology & Environmental Geosciences)

59. *Bilayer Interactions of the Endogenous Opioids*

**Student:** Dashiel Jay (Biochemistry-SC-INBRE & DRP-Giuliano)

**Faculty Mentor:** Michael Giuliano (Chemistry & Biochemistry)

60. *Structural and Biophysical Characterization of Human Neuropeptide Galanin*

**Students:** Katelyn Kraichely (Biochemistry-DRP-Giuliano)
Cecelia Hendy (Chemistry)

**Faculty Mentor:** Michael Giuliano (Chemistry & Biochemistry)

61. *Functional trait responses to temperature and soil nutrient environments of EPC1 and GUN4 Arabidopsis knockout mutants*

**Student:** Jamison Lee (Biology-NSF, SC-INBRE and SSM)

**Faculty Mentor:** Courtney Murren (Biology)

62. *Effects of abiotic stresses on Arabidopsis thaliana knockout mutants*

**Students:** Gracen Mitrick (Biology-NSF and SSM)
Keyaira Morgan (Marine Biology-NSF, SC-INBRE and SSM)

**Faculty Mentors:** Courtney Murren (Biology)
Matthew Rutter (Biology)
63. **Data in the Movies: Introductory Data Science Contextualized to Filmmaking**  
**Students:** Alexandra Shope (Data Science-SSM)  
Sarah Sayce (Computer Science-SSM)  
**Faculty Mentor:** William Bares (Computer Science)

64. **Addition of Benzylboronates to Ketones**  
**Student:** Jacob Hayes (Chemistry-SC-INBRE and SSM)  
**Faculty Mentor:** Timothy Barker (Chemistry & Biochemistry)

65. **Metal-Catalyzed Coupling Between Aryl Bromides and Disubstituted-Alkyl Bromides in the Synthesis of Bis-para-anisyl Alkanes**  
**Student:** Andrew Pampu (Molecular Biology-SURF)  
**Faculty Mentor:** Rick Heldrich (Chemistry & Biochemistry)

66. **Evolution of the Taos Plateau Volcanic Field Lavas and the Role of Tres Piedras Granite Assimilation**  
**Students:** Michael Schwartz (Geology-SURF)  
Dylan McLane (Geology-SSM)  
**Faculty Mentor:** John Chadwick (Geology & Environmental Geosciences)

67. **Tectonic Evolution of the Gulf of Mexico 230 Ma to 180 Ma Based upon Stress Map Analysis**  
**Student:** Hannah Hartley (Geology-SSM)  
**Faculty Mentor:** Erin Beutel (Geology & Environmental Geosciences)

68. **Dynamics of Coalescence Events for SF6 in microgravity**  
**Student:** Christian Hawkins (Physics-SSM & SCSCG Mini-REAP Grant)  
**Faculty Mentor:** Ana Oprisan (Physics & Astronomy)

69. **The Search for Zetas: Geographical Distribution of Iron-Oxidizing Microbes in Charleston Pluff Mud**  
**Students:** Nisarg Patel (Biology-SURF)  
Alejandra Enriquez (Marine Biology)  
Lauren Rodgers (Marine Science-NSF)  
**Faculty Mentor:** Heather Fullerton (Biology)

70. **Spatiotemporal Distribution of 4 Karyopherins in Sea Urchin Embryogenesis**  
**Students:** Madison Davis (Biology & International Studies-SC-INBRE & SSM)  
James Clayton (Biology & Political Science-SC-INBRE & SSM)  
**Faculty Mentor:** Christine Byrum (Biology)
71. **Design of R367L Mutant for Endothelial Nitric Oxide Synthase to Probe Pterin Binding and Catalytic Effects**  
   **Students:** Ana Lesmes Ortega (Biochemistry-SSM)  
   Courtney Lloyd (Biochemistry-SSM)  
   **Faculty Mentor:** Amy Rogers (Chemistry & Biochemistry)

72. **Crystallography studies of 4-methoxy-tetrahydrobiopterin bound to Endothelial Nitric Oxide Synthase in the Presence of N-hydroxy-L-Arginine**  
   **Students:** Courtney Lloyd (Biochemistry-SSM)  
   Ana Lesmes Ortega (Biochemistry-SSM)  
   **Faculty Mentor:** Amy Rogers (Chemistry & Biochemistry)

73. **Spectro-Temporal Modeling in Gamma-Ray Bursts**  
   **Students:** Rebecca Brnich (Astrophysics-Physics & Astronomy)  
   Patrick Simonson (Physics)  
   **Faculty Mentor:** Jon Hakkila (Physics & Astronomy)

74. **Tropical Cyclone Climatology of Major Southeast U.S. Cities**  
   **Students:** Ryan Evisch (Meteorology-SSM)  
   Mikel Hannah-Harding (Meteorology-SSM)  
   **Faculty Mentor:** Bernhard Lindner (Physics & Astronomy)

75. **Alternative Splicing in Nurse/Forager Bee Transition**  
   **Students:** Matthew Magee (Biology-SURF)  
   Kyleigh Petersen (Biology-SURF)  
   **Faculty Mentor:** Agnes Southgate (Biology)

76. **Localization of putative melatonin in receptor in Nemastella vectensis the starlet sea anemone**  
   **Student:** Kristopher Kuhn (Biology-SSM)  
   **Faculty Mentor:** Elizabeth Meyer-Bernstein (Biology)

77. **How Heat Waves Affect the Righting Time of the Green Sea urchin (Strongylocentrotus droebachiensis) in the Gulf of Maine**  
   **Student:** Daniela Adjunta (Marine Biology-NSF)  
   **Faculty Mentors:** Jarrett Byrnes (Biology-University of Massachusetts Boston)  
   Breck McCollum (Biology-University of Massachusetts Boston)

78. **A Refined Percentile Method for Robust Regression**  
   **Student:** Samantha Kirkpatrick (Mathematics)  
   **Faculty Mentor:** Anthony Bishara (Psychology)
<table>
<thead>
<tr>
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