Welcome New SCAMPers of Summer 2016

Since 1994, the LS-SCAMP program has welcomed minority freshmen into its Summer Bridge Program. This program provides an academic transition experience for underrepresented minority high school graduates who are enrolling for the fall semester. The bridge program is sponsored by Multicultural Student Programs and Services and is a subset of the Speedy Consolidation and Transition Program (SPECTRA) for students planning to major in a STEM discipline.

This summer, SCAMP welcomed eleven new students who successfully completed SPECTRA/SCAMP Bridge Program.

Celebration of Summer Poster Session

The 2016-2017 Academic year kicked off with the Undergraduate Research and Creative Activities program (URCA) holding a poster session for students that conducted research over the summer. Students representing SCAMP were: Wendell Roberson (bottom left), Victoria Bailey, Charmaine Littlejohn, Joyce Biaco and Keyaira Morgan presenting research they conducted in various areas of science including biology, astrophysics, and chemistry.
Georgia Tech Research Bound Undergraduate Experience

SCAMPers Sondrica Goines, Alyssa Johnson, Victoria Bailey, Mikel Hannah-Harding, and Wendell Roberson attended Research Bound at Georgia Tech in November of 2016. Students attended a day-long program where they learned how to compose competitive graduate school applications, explored opportunities to fund a graduate study through scholarships and assistantships, visited with faculty members, toured the Georgia Tech campus and world renowned research labs, and competed in poster research presentations. SCAMP students Sondrica Goines and Wendell Roberson both won first place in their respective fields of science (Chemistry and Astrophysics).

Pictured from left to right: Mikel Hannah-Hardin, Alyssa Johnson, Sondrica Goines, Victoria Bailey, Wendell Roberson.

SCAMP Community Outreach

Our members participated in a number of community activities in the fall. SCAMP/S^3 members spoke to at the following Title 1 Schools, Burke High and West Ashley High, about minority students involvement in the STEM fields, volunteered at College of Charleston’s AALANA preview day, helped with the annual SCAMP Research Banquet, and partnered with Public Health students to feed the homeless in North Charleston. Members who attended these events were always enthusiastic about serving the community and the group efforts created a feeling of camaraderie amongst the members. SCAMP and S^3 look forward to many more community projects and events in the future.

MUSC Urban Farming

AALANA Preview Day
The Annual Research Conference was held on October 27, 2016 to recognize students who conducted summer research. Twelve SCAMP students presented their research, while other SCAMP students had major roles such as planning and facilitating for the research night. The Research Conference was well attended with a total of 38 SCAMP students and 28 guests including Executive Vice President for Student Affairs, Associate Provost, Deans, research mentors, board of advisors, faculty members, and it was an impressive display of intellectual talent. Twelve SCAMP research presenters are: Sondrca Goines, Wendell Roberson, Bravada Hill, Heba Abdin, Hassam Solano-Morell, Keyaira Morgan, Samantha Bridges, Victoria Bailey, Ka'Dedra Creech, Jyair Dunning, Joyce Biaco, Jessica Mack.
SCAMP Banquet Research Presenters and Mentors

Sondrica Goines  
Quantification of Adsorption of Organic Compounds by Silver Nanoparticles  
Mentor: Dr. Katherine Mullaugh, College of Charleston, Chemistry Department

Bravada Hill  
Functional Studies of Viral and Host Cell Factors Involved in Regulation of the Replication and Pathogenesis of Human and Animal RNA Viruses  
Mentors: Dr. James Tam, Ng Yan Ling, Nanyang Technological University

Ka'Dedra Creech  
Development of a Novel LC-Tandem Mass Spectrometry Method to Simultaneously Assess Beta-hydroxybutyrate, Acetoacetate and Pyruvate  
Mentor: Dr. Gerald Shulman, Yale Medical University, Internal Medicine

Wendell Roberson  
Numerical Simulations of the Interaction between Planets and Photoplanetary Disks  
Mentor: Dr. Ana Uribe, College of Charleston, Physics Department

Heba Abdin  
Novel Approaches to Prevent RGC Loss in Stroke Patients  
Mentors: Dr. Shahid Husain, Medical University of South Carolina, Storm Eye Institute

Hassam Solano  
CDP Online  
Mentor: Dr. Paul Anderson, Dr. Andrew Shedlock, Computer Science Department

Keyaira Morgan  
Seeding Development of Arabidopsis Blue-Light Photoreceptor Mutants in High and Low Temperature  
Mentor: Dr. Courtney J. Murren, College of Charleston, Biology Department

Jyair Dunning  
Dirty Dunning: The Complete Genome Sequence of a New Subcluster A4 Phage  
Mentor: Dr. Christopher Korey, College of Charleston, Biology Department

Victoria Bailey  
Synthesis and Preliminary Degradation of Monoiodo- and Triiodo-PCL Material  
Mentor: Dr. Brooke Van Horn, College of Charleston, Chemistry Department

Samantha Bridges  
Effects of in utero Thyroxine Exposure on Cranial Base Growth  
Mentor: Dr. James Cray, Medical University of South Carolina

Joyce Biaco  
Copper-Catalyzed Cascade Trifluoromethylation of Alkenes  
Mentor: Dr. Timothy Barker, College of Charleston, Chemistry Department

Jessica Mack  
Developing Efficient Documentation for CIRDLES Scientific Software Projects  
Mentor: Dr. Jim Bowring, College of Charleston, Computer Science Dept.
Speakers

At each SCAMP meeting, there is a local speaker, either from around the Charleston area or from the College, who present their research. Speakers expose the students to the research opportunities around them. This Fall of 2016, we have had the following guest speakers:

- **Dr. Jason Howell**  
  Assistant Professor, Department of Mathematics  
  Research interests: Applied and Computational Mathematics

- **Dr. Sebastian van Delden**  
  Department Chair and Professor of Computer Science  
  Research interests: Visual and Voice Guided Industrial Robotics and UAV Robotics

- **Dr. Chris Korey**  
  Associate Professor, Department of Biology  
  Director of First Year Experience  
  Research interests: Development and Function of the Nervous System

- **Ms. Karen Eippert**  
  Director of Pre-Professional Health

- **Dr. Gabriel Williams**  
  Assistant Professor, Department of Physics and Astronomy  
  Research interests: Severe Convective Storms

Bake Sale

We had our biannual midnight Bake “Cell” on November 11, 2016 on King Street. We utilized our arithmetic and singing skills to sell baked goods and promote our organization. We raised a significant amount of money and raised awareness about the lack of minorities in the STEM fields. With help from SGA and our bake sale we raised enough money to purchase our “Student Science Society” t-shirts.

Multicultural Celebration Fall 2016

As the Fall semester came to a close, SCAMP had its annual Multicultural Celebration where students all brought yummy treats for the group to enjoy and Professor Agrest gifted the seniors with going away presents. The celebration was held at the end of the semester to give students an opportunity to relax before finals.

Picture above(Left to Right): Needhee Patel, Joyce Biaco, Kadedra Creech, Neha Muppala, Bravada Hill, and Quinten Meadors.