South Carolina

Space Grant Consortium & NASA EPSCoR

an overview

October, 2014

NASA in South Carolina . . .

Members

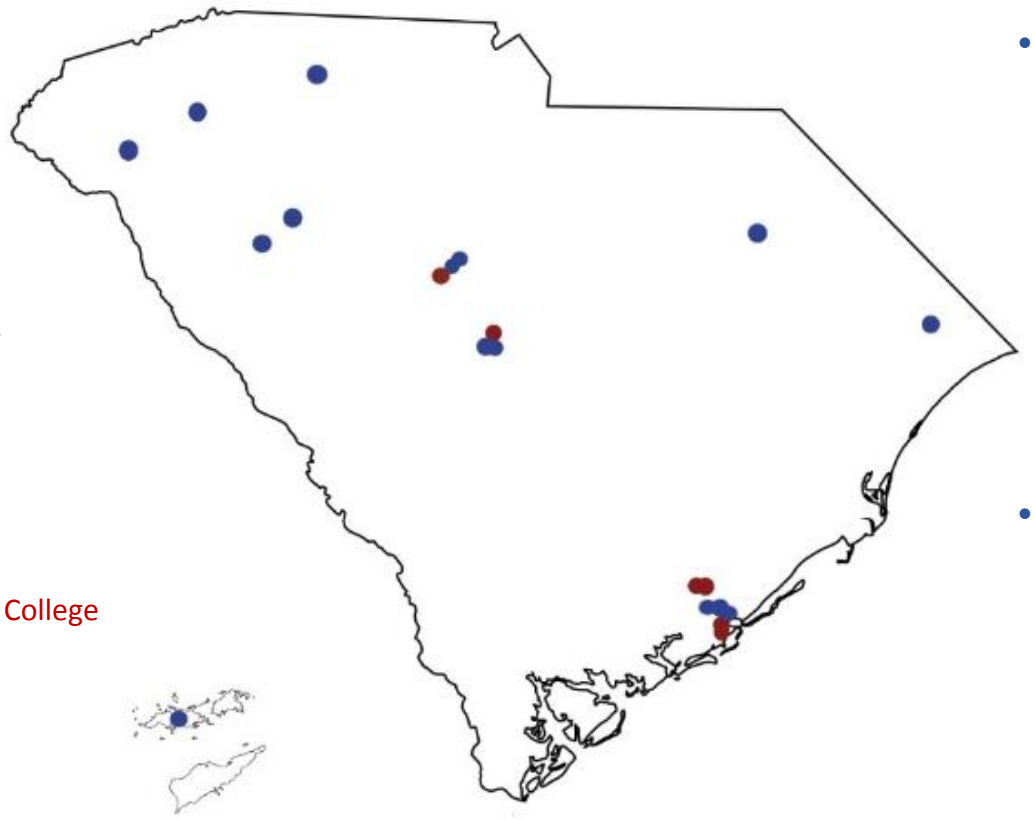
Benedict College
The Citadel
Coastal Carolina University
College of Charleston
Claflin University
Clemson University
Francis Marion University
Furman University
Lander University
Medical University of SC
Presbyterian College
South Carolina State University
University of South Carolina
Wofford College
University of the Virgin Islands

Educational Partners

Dome Education
Orangeburg-Calhoun Technical College
Palmetto Scholars Academy
SC State Museum
Trident Technical College

Affiliates

South Carolina Sea Grant Consortium
South Carolina EPSCoR



NASA faculty & student programs in SC

- ***Space Grant Awards ($895,000)***
  - Palmetto Academy
  - Research & Education Awards Program (REAP)
  - Graduate Assistantship
  - Kathryn Sullivan Fellowship (w/ SC Sea Grant Consortium)
  - Undergraduate Research Award
  - Minorities in Science & Technology (MIST)
  - NASA Center Internships
  - Bridging the Future Scholarship (BTF)

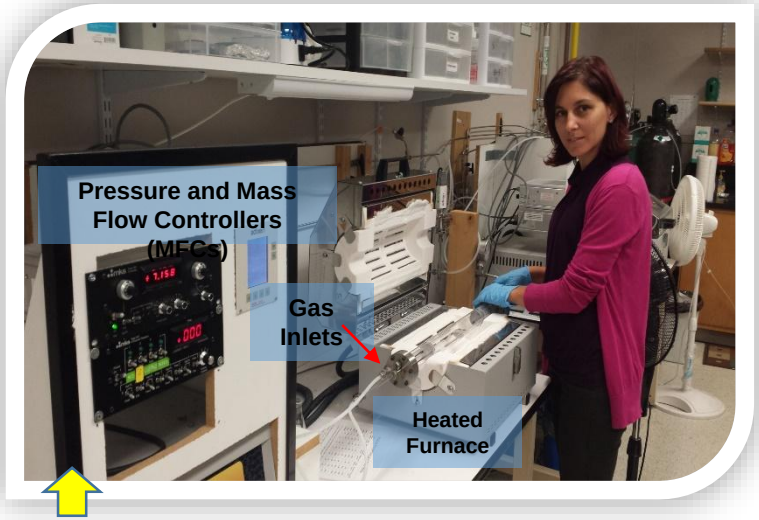
- ***NASA EPSCoR Awards ($4.2 M)***
  - Research Grant Program (RGP)
  - Minority Serving Institutions (MSI)
  - Large Research Awards ($750K)

South Carolina Space Grant Consortium

undergraduate and graduate research

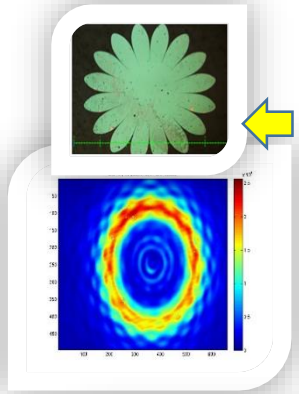
Young Astronaut Club at KSC

C. Mayer, *2014 Kathr… Sullivan Fellowship* awardee is assessing the biogeochemical constituents of the optically complex waters around Long Bay, SC to understand harmful algal blooms.



A. Wilson is using InN/In_2O_3 (Indium Nitride/Indium Oxide) core shell nanowires synthesis to fabricate chem-FET type and tunneling based sensor devices to perform highly sensitive and selective detection of hazardous gases.

S. Southard, *NASA LARSS intern*, worked on development of Photogrammetry software for noise abatement test for aircraft ..



K. Murphy, *NASA GSFC intern*, tested the efficiency of petal-shaped coronographic masks to reduce the intensity of Poisson's spot.

R. Morrison, *NASA ARC intern*, worked with a nanoparticle drug delivery system (NPDDS) that may be used to deliver anabolic drugs in order to prevent or reduce microgravity bone loss.

Programs address NASA Education Outcomes 1,2 and 3 and support the Co-STEM strategy to advance STEM

HICO

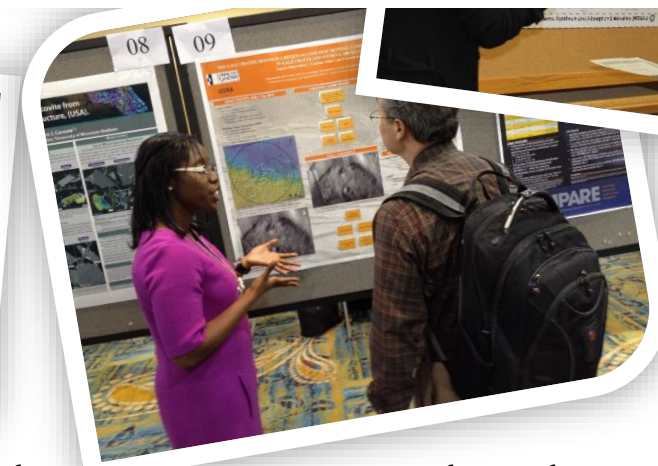
South Carolina Space Grant Consortium

Palmetto Academy – a hands-on mentored NASA experience

Summer research students touring Boeing, N. Charleston

Student research awardees presenting at national conferences

NASA Center and research lab tours



South Carolina Space Grant

Programs address NASA Education Outcomes 1,2 and 3 and support the Co-STEM strategy to advance STEM

NASA EPSCoR

South Carolina NASA EPSCoR
faculty and student research

Dr. Frank Chen

2013 South Carolina Governor's Award for Excellence in Scientific Research

Mentoring tomorrow's future STEM leaders and astronauts

South Carolina Space Grant

... together we are making an impact in STEM engagement in SC ...

NASA EPSCoR