Mar 8th, 9:00 AM - 9:20 AM

I²STEMe - What, Who, Where?

Kania Greer  
*Georgia Southern University, kagreer@georgiasouthern.edu*

Bob Mayes  
*Georgia Southern University, rmayes@georgiasouthern.edu*

Follow this and additional works at: [https://digitalcommons.georgiasouthern.edu/stem](https://digitalcommons.georgiasouthern.edu/stem)  
Part of the [Computer Sciences Commons](https://digitalcommons.georgiasouthern.edu/computer-sciences-commons), [Engineering Commons](https://digitalcommons.georgiasouthern.edu/engineering-commons), [Scholarship of Teaching and Learning Commons](https://digitalcommons.georgiasouthern.edu/scholarship-teaching-learning-commons), and the [Science and Mathematics Education Commons](https://digitalcommons.georgiasouthern.edu/science-mathematics-education-commons)

Recommended Citation  
[https://digitalcommons.georgiasouthern.edu/stem/2013/2013/1](https://digitalcommons.georgiasouthern.edu/stem/2013/2013/1)  

This event is brought to you for free and open access by the Conferences & Events at Digital Commons@Georgia Southern. It has been accepted for inclusion in Interdisciplinary STEM Teaching & Learning Conference by an authorized administrator of Digital Commons@Georgia Southern. For more information, please contact digitalcommons@georgiasouthern.edu.
The mission of the Institute for Interdisciplinary STEM Education is to establish collaborative interdisciplinary programs committed to excellence in K-20 STEM teaching and learning. The i²STEM will strive to create broadly inclusive partnerships across academia, business, education, and research centers in the coastal plains of Georgia, support professional development, outreach, curricular development, and research in STEM education through grant funded projects, and establish interdisciplinary STEM education master’s and Ph.D. programs. The Institute will support STEM projects by providing expertise in the evaluation of projects and in addressing broader impact initiatives of STEM research grants.

Our Vision for Outreach
We want to improve the STEM pipeline by developing collaborative partnerships with school districts, community colleges, and universities in Southeast Georgia with the goal of improving transition between these entities and improving engagement through real-world student centered pedagogy that prepares students for STEM-related job opportunities.

Current School District Partners:
- Richmond County School District
- Bulloch County School System
- Ware County School System
- Treutlen County School System
- Burke County School District
- Camden County School District
- Jenkins County School District
- Candler County School District
- Effingham County School District
- Bryan County School District

Current Research Institute Partners:
- Ossabaw Island Education Alliance
- Southeastern Natural Science Academy
- Skidaway Institute of Oceanography
- Grey’s Reef Marine Sanctuary
- Marine Education Center and Aquarium
- GSU Applied Coastal Research Laboratory
- Applied Coastal Research Lab
- St. Catherine’s Island Sea Turtle Program
- Savannah Science Museum Caretta Research Program
- Sapelo Natural Estuarine Research Reserve
- Cumberland Island National Seashore
- Okefenokee Nat’l Wildlife Refuge
- Tifton LIAR

Funded Proposals
- Feb 2013 – May 2014. Georgia Department of Education - Improving Teacher Quality: $75,000. To improve STEM content knowledge by engaging teachers in an interdisciplinary study of the Savannah River Basin; translate that knowledge into the classroom, implement real-world, problem-based, place-based pedagogies, and connect to CCGPS.
- Dec 2008-Dec 2013. NSF MSP: Math Teacher Leadership Center: $3,000,000. Develop virtual master’s program for secondary mathematics education and a teacher leadership program for 4-12 grade mathematics teachers.

Mission
The mission of the Institute for Interdisciplinary STEM Education is to establish collaborative interdisciplinary programs committed to excellence in K-20 STEM teaching and learning. The i²STEM will strive to create broadly inclusive partnerships across academia, business, education, and research centers in the coastal plains of Georgia, support professional development, outreach, curricular development, and research in STEM education through grant funded projects, and establish interdisciplinary STEM education master’s and Ph.D. programs. The Institute will support STEM projects by providing expertise in the evaluation of projects and in addressing broader impact initiatives of STEM research grants.

Teaching for Understanding
Problem Based Pedagogy
Interdisciplinary Education
Place Based Pedagogy

Outreach
We want to improve the STEM pipeline by developing collaborative partnerships with school districts, community colleges, and universities in Southeast Georgia with the goal of improving transition between these entities and improving engagement through real-world student centered pedagogy that prepares students for STEM-related job opportunities.