

Promoting Partnerships with the College of Education

Dr. Sharon Schleigh
East Carolina University

2011 Fall Southeast Regional Space Grant Meeting
Raleigh, NC



ECU NC Space Grant program is a collaborative group involving multiple colleges and departments and industries

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Our mission is to increase the interest, awareness, and opportunities brought by ECU faculty to develop astrobiology, space science, planetary sciences, and exploration opportunities for university students and thereby reach K-12 teachers, students, and the public.

- Monthly Symposium /Visiting Talks
- Faculty & student involvement
- As a collaborative we are focusing on sharing and facilitating research interests and opportunities between colleges, departments and the community
 - Jan. 2011: Inaugural Event (Introducing the members and their research/mentoring opportunities)
 - Feb. 2011:
 - Voyages of Discovery (Neil deGrasse Tyson)
 - Regional Science & Engineering Fair
 - March 2011: Astrobiology
 - April 2011: Remote Sensing
 - May 2011: Informal & Formal STEM Education
 - Sept. 2011: Art & Science (Root-Berenstein), Sky as Frontier (Courtwright) & Extreme places in the SS (Baker).

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About Space Grant at ECU | Research Opportunities | Space Grant Resources | North Carolina Space Grant | National Space Grant | Award Recipients

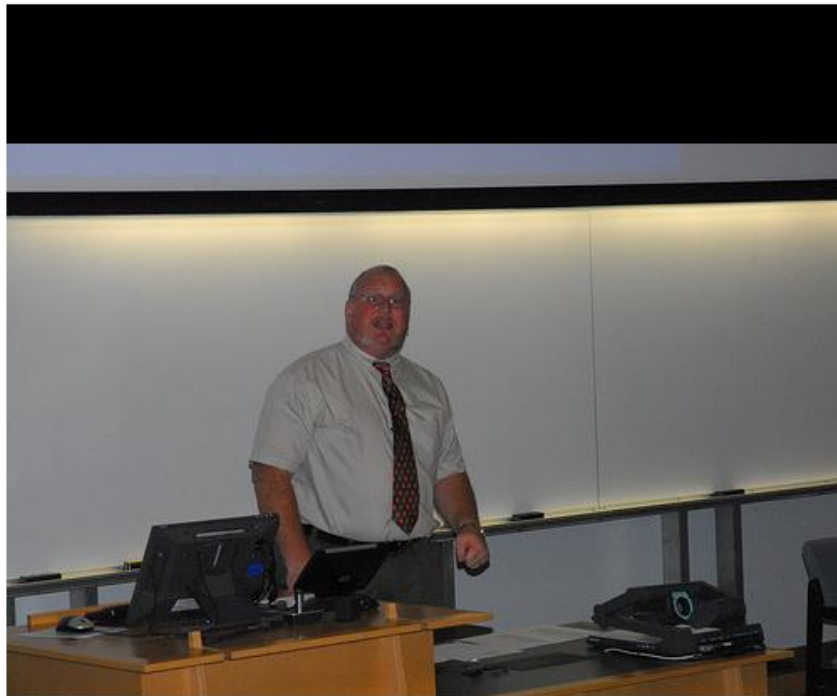
<http://www.ecu.edu/ncspacegrant/>

North Carolina Space Grant Symposium

Informal and Formal STEM Education@ East Carolina University

A series of short talks by faculty and students about the opportunities for STEM education and collaboration between formal and informal education in NC Space Grant and the ECU Space Grant Collaborative.

Thursday, May 26th, 2011



News and Events

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Creativity and Innovation in Science and Art with Dr. Robert Root-Bernstein
September 6 at 5 pm
Flanagan 265

Facebook social plugin

[NASA Image of the day](#)



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About NC Space Grant

Student Funding Opportunities

Faculty Funding Opportunities

2011 Student Award Recipients

2011 Faculty Award Recipients

NASA Educator Resource Center - Langley, VA

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Funding Opportunities

The 2011-2012 application period has ended.

Each year NC Space Grant solicits proposals and applications from students to participate in the following programs:

Program	Description
Graduate Research Fellowship Program Due: Each Spring Max: \$8,000	This program provides add-on support for graduate students to supplement and enhance STEM research experiences at university labs, NASA centers, or commercial facilities.
Undergraduate Research Scholarship Program Due: Each Spring Max: \$7,000	This program engages the future STEM workforce in basic and/or applied aerospace-related research projects and facilitates the development of mentor relationship between students, faculty and the NASA community.
Undergraduate Scholarship Program Due: Each Spring Max: \$1,000	The goal of this program is to promote undergraduate STEM-related research by assisting students with establishing relationships with student and faculty mentors early in their academic career.
Community College STEM Scholarship Program Due: Each Spring Max: \$1,000	The goal of this scholarship program is to encourage students engaged in associate degree programs to pursue studies in math, engineering, science fields that are essential to America's industrial and technological competitiveness.
NC Space Grant/LORD Corporation Scholarship - Applications available	The NC Space Grant has partnered with the Lord Corporation to establish a summer internship program to give students real-world experiences in a cutting-edge industrial setting.

The proposed effort focuses on Scientific Education and not research

This is not a research proposal but an excellent educational one

Project should create science interest in middle school children

Applicant is excited about science education and wrote an excellent proposal.

Admirable and deserving project

Unfortunately, a research proposal is expected not an educational one



The logo for the North Carolina Space Grant features a white outline of the state of North Carolina. Inside the outline, the words "NORTH CAROLINA" are written in a bold, sans-serif font, and "space grant" is written in a smaller, lowercase sans-serif font below it. A small globe icon is positioned to the left of the text.

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- So we started the RESTEP to STEM program (**R**esearch **E**ngaged **S**trategies in **T**eacher **E**ducation **P**rograms to improve **STEM**).
- To promote STEM Education, North Carolina Space Grant is funding research projects for undergraduate and graduate pre-service teachers in research that develops their understanding of best practices and strategies of effective teaching in k-12 schools. Pre-service teachers in this program will build on and add to the current research, knowledge and curriculum that address and align with current NASA education themes and missions.
- 5 awards at \$1500 for a semester



NC Space Grant

Research Engaged Strategies in Teacher Education Programs to Improve STEM (RESTEP to STEM)

Seeking Partnerships and Collaborators

The **NCSG Research Engaged Strategies in Teacher Education Programs to improve STEM** (RESTEP to STEM) will facilitate opportunities in which pre-service teachers will build on and add to the current research, knowledge and curriculum that address and align with current NASA education themes and missions. The objectives of this effort are:

- to accelerate the opportunities of undergraduate and graduate students to engage in educational research in STEM education.
- to promote science education in the k-12 classroom, focusing on the development of improving pre-college perceptions, understanding and interests in science.
- to promote science education in the k-12 classroom focusing on the development of improving pre-college interests in pursuit of science education and science careers.
- to assist in the preparation of teachers entering into the k-12 science classrooms.

NC Space Grant STEM Teacher Education Program Student Grants Opportunities for 2011-2012

To promote STEM Education, North Carolina Space Grant is funding research projects for undergraduate and graduate pre-service teachers in research that develops their understanding of best practices and strategies of effective teaching in k-12 schools. Pre-service teachers in this program will build on and add to the current research, knowledge and curriculum that address and align with current NASA education themes and missions.

Criteria for student grant proposals:

- Projects must include a research component that builds on and/or adds to the current knowledge about curriculum, best practices, strategies, or assessments in science education in the k-12 classroom.
- Project must involve a classroom teacher and a learning scientist or science content expert advisor.
- Proposals must include:
 - a background literature section that addresses both inquiry and pedagogical issues,
 - well defined research questions and expected outcomes,
 - data collection methodology with assessment tools included or described,
 - a description of the population of students that will be involved,
 - time lines and costs (budget),
 - description of deliverables and their alignment to NASA mission/directorate,
 - letters of commitment for partnership from classroom teacher and faculty/expert,
 - references that support ideas for the project.
- Proposals should demonstrate of accuracy of content and an understanding of pedagogy/learning.
- Partnerships are encouraged with graduate students in science content areas.
- Deliverables (curricula, assessments or other products developed through this grant) should be justified and meet a wide audience.
- Project must be able to be completed by April 2012.

- Committee includes PD professionals, astronomy education professionals, middle grade teacher, high school teacher, science experts
 - Sharon Schleigh: schleighs@ecu.edu
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 - Julia Plummer: PlummerJ@arcadia.edu
 - Matt Schrenk: schrenkm@ecu.edu
 - Hayden Griffin: Griffino@ecu.edu
 - John Rummel: rummelj@ecu.edu
 - Valerie Brown-Schild: valerie_schild@ncsu.edu
 - Rob Greenberg: rgreen08@gmail.com
 - Mandy Parfitt: mandy_parfitt@bellsouth.net
- Assess the impact of the RESTEP to STEM program in k-12 education (teacher education, k-12 students).
- Serve as a pilot /model

<http://www.ecu.edu/ncspacegrant/>

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