



Validation of the Antarctic Snow and Ice Accumulation Discharge Basal Stress Boundary in the South Eastern Region of the Ross Ice Shelf, Antarctica

Kamberlin King (MVSU), Charlie Nelson (KSU), Ayanna Overton (NCAT), Mentor: Mr. Michael Jefferson (ECSU) Antarctic

A Corresponding Study of Water Quality Evaluation of the Pasquotank Watershed in Northeastern North Carolina

Raveen McKenzie (MVSU), Jamal Stevenson (MVSU), Ricky Dixon (MVSU), Steffi Walthall (SCAD), Mentor: Mr. Jeff Wood (ECSU) Water Quality

Autochamber Measurements of Net Ecosystem (CO2) Exchange at a Subarctic Mire in Northern Sweden

Maeah Walthall (GMU), Xavier Parker-Smith (NCAT), Mentor: Mr. Ryan Lawrence (UNH) Arctic



**RESEARCH EXPERIENCE FOR UNDERGRADUATES
IN OCEAN, MARINE, AND POLAR SCIENCE**
ELIZABETH CITY STATE UNIVERSITY *MAY 26 - JULY 17, 2015*
CLOSING PROGRAM EVENTS @ ECSU



CReSIS
Center for Remote Sensing Education and Research

Center of Excellence in Remote Sensing Education and Research

Dr. Linda B. Hayden, Principal Investigator

Elizabeth City State University | 1704 Weeksville Road CB 672 | Elizabeth City, NC 27909

ONR - URE/OMS N00008-1-0832 NSF REU ANT-0944255 CReSIS - NSF FY 2005-108CM1



REU Closing Events Program

Room 229 Dixon-Patterson Hall

The REU/URE OMPS program objective is to promote the professional development of minority undergraduate students through their participation in ocean, marine and polar science research. The program consists of undergraduate students from minority serving institutions; each student was assigned to a specific research team, where they worked closely with a faculty mentor. In addition, seminars, lunch meetings, and social functions were organized to facilitate undergraduate interaction. The project was conducted for eight weeks during summer 2015, with online mentoring and follow-up during the academic year 2015-2016. In addition to the nine students at ECSU during summer 2015, Indiana University (Dr. Geoffrey Fox, Co-PI) hosted five students, University of Kansas (Dr. Prasad Gogineni Co-PI) hosted four students and two students were accepted into the Juneau Icefield Research Program (JIRP).

Elizabeth City State University

- Maeah Walthall, SO/Elec Tech/GMU
- Xavier Parker-Smith, SO/Elec Tech/NCAT
- Raveen McKenzie, SO/CS/MVSU
- Ricky Dixon, JR/MathED/MVSU
- Jamal Stevenson, SO/MathED/MVSU
- Steffi Walthall, JR/Digital Media/SCAD
- Kamberlin King, SO/CS/MVSU
- Charlie Nelson, SR/CS/KSU
- Ayanna Overton, SO/Elec Tech/NCAT

Juneau Icefield Research Program

- Arianna Varuolo-Clark, JR/Ats Sci/LSC
- James Headen, GRAD/Math/ECSU

Indiana University

- Tatyana Matthews, JR/CS/ECSU
- Tori Wilbon, JR/CS/ECSU
- Maya Smith, SR/Info Tech/WSSU
- Omar Owens, JR/CS/WSSU
- Anthony Scott, JR/CS/WSSU

University of Kansas

- Jennah Seaver, JR/Elem Ed/HINU
- Laurissa Marcotte, JR/Aerospace Eng/KU
- Abbey Whislens, JR/Geo Info/KU
- Austin Feathers, JR/Elec Eng/KU

2015 Participating Institutions

- | | |
|------------------------------------|-------------------------------------|
| George Mason University | Mississippi Valley State University |
| North Carolina A&T University | University of Kansas |
| Elizabeth City State University | Winston Salem State University |
| Haskell Indian Nations University | Lyndon State College |
| Savannah College of Art and Design | Kentucky State University |

2015 ECSU REU Mentors



Ryan Lawrence
Arctic



Jeff Wood
Sea Level Rise
& Water Quality



Michael Jefferson
Antarctic

Monday July 13, 2015

AM Teams Meet

Noon Poster Presentations featuring Mr. Ryan Lawrence (UNH)
Ground penetrating radar survey of Edenton Green for early structural remains

1:30 pm Student GRSS Chapter #66221 Meeting - Dixon-Patterson Hall, Room 231
Welcome, Introduction and Minutes of Previous Meeting

Preview of IGARSS 2015 Oral Reports

Andrew Brumfield.....Elizabeth City State University
Update of the CERSER TeraScan Cataloguing System and the TeraScan Image Processing Scripts

Raveen McKenzieMississippi Valley State University
A Comparative Study to the 2011/2013 Water Quality Assessments in the Pasquotank Watershed in Northeastern North Carolina with a sea level rise component

6:30 pm..... C++/Python Training

Tuesday July 14, 2015

AM Teams Meet

1:30 pm Team Website Review
Arctic Team Final Oral Report
Antarctic Team Final Oral Report

3:00 pm Teams Meet

6:30 pm..... C++/Python Training

Wednesday July 15, 2015

AM Teams Meet

Noon..... Lunch

1:00 pm Water Quality Team Final Oral Report
Drone Technology Demonstration - Mr. Edward Swindell

Mr. Clay Swindell will demonstrate the use and applications of Unmanned Aerial Vehicles (UAVs), often called drones, in the field of remote sensing. He will have on hand a small unit used by a previous CERSER team to study archaeological sites in the region. Explained will be how these small compact flying cameras provide researchers with the ability to collect their own high resolution imagery and data.

3:00 pm Teams Meet

Thursday July 16, 2015

AM Teams Meet

6:00 pm Closing Dinner at Groupers Restaurant

- REU reflections from students, mentors
- Certificates: Coast Guard, CPR/First Aid, Code of Research Conduct, C++/Python

Friday July 17, 2015

- Task Sheets Due
- Final Written Reports, Checkout
- Distribution of final stipends through Joal Hathaway
- Depart for the airport