



2016 Research Projects

A Continuing Study of the Water Quality in the Pasquotank Watershed in Northeastern North Carolina - Kamberlin King (MVSU), Kevin Benton (ECSU), Mentor: Mr. Jeff Wood (ECSU)

Analyzing Long-Term Drought Effects on Land Surface Temperature and Vegetation Using NOAA Satellite Data - Cornelius Holness (ECSU), Daquan Rascoe (ECSU), Mentor: Mr. Andrew Brumfield (ECSU)

Implementation & Documentation of Technology Training for Seniors and the PiMERS Middle School Program - Steffi Walthall (SCAD), Derek Morris (ECSU), Mentor: Dr. Darnell Johnson (ECSU)

Implementation of Power Divider for 2-18-GHz Vivaldi Antenna Array - Audrey Evans, (KU)

The Impact of STEM Outreach in Schools and Communities - Tayla Frizell - (MVSU), Joselyn Hathaway (ECSU)

Image Processing Techniques and the Role of Temperature in Antarctic Firn Stratigraphic Internal Layering - Megan Metz (KU)

Compiling bed topography data along a central flowline of Helheim Glacier - Levi Sedlock (KU)

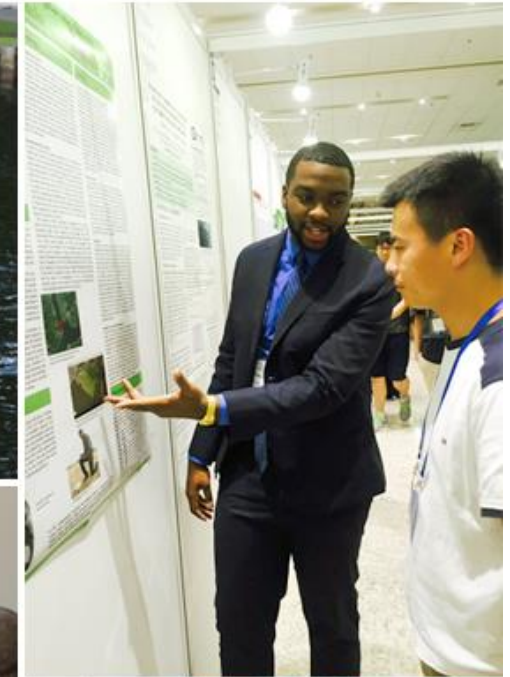
3D Radar Imaging of Canadian Archipelago Glaciers - Jordan Sprick (KU)

Beamforming Sensitivity of Airborne Distributed Arrays to Flight Tracking and Vehicle Dynamics - Joe Vincent (KU)

ELIZABETH CITY STATE UNIVERSITY RESEARCH EXPERIENCE FOR UNDERGRADUATES AND PIMERS

JUNE 1 - JULY 29, 2016

CLOSING WEEK EVENTS @ ECSU



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 NASA MUREP NNX16AC89A



2016 Research Projects

The REU/URE program objective is to promote the professional development of minority undergraduate students through their participation in 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 2016, with online mentoring and follow-up during the academic year 2016-2017. In addition to the six students at ECSU during summer 2016, Indiana University (Dr. Geoffrey Fox, Co-PI) hosted four students, two students and two educators were assigned to NASA LaRC, University of Kansas (Dr. Prasad Gogineni Co-PI) hosted seven students and two students were accepted into the Juneau Icefield Research Program (JIRP).

Elizabeth City State University

Kamberlin King, JR/CS/MVSU
Kevin Benton, SO/CS/ECSU
Daquan Rascoe, SO/CS/ECSU
Derek Morris, GRAD/RS/ECSU
Cornelius Holness, GRAD/MATH/ECSU
Steffi Walthall, SR/DIGITAL MEDIA/SCAD

Juneau Icefield Research Program

Joel Gonzales-Santiago, JR/BUS_RS/ECSU
Kiya Riverman, GRAD/PSU

NASA LaRC

Jefferson Ridgeway, SR/CS/ECSU
Jessica Hathaway, SR/MathEd/ECSU
Edmond Koker, MUREP - PiMERS Researcher
Wanda Hathaway, In-service teacher

Indiana University

Tangee Beverly, SO/CS/ECSU
Charles Hockaday Jr., SO/CS/ECSU
Hagan Hodgkins, JR/CS/ECSU
Nigel Pugh, SR/CS/ECSU

University of Kansas

Audrey Evans, SR/ENGPY/KU
Tayla Frizell, SR/MATHED/MVSU
Joselyn Hathaway, SO/MATHED/ECSU
Megan Metz, KU
Levi Sedlock, SR/EE/KU
Jordan Sprick, SR/EE/KU
Joe Vincent, SO/AEROSPACE/KU

2016 Participating Institutions

Mississippi Valley State University (MSI) Elizabeth City State University (MSI)
University of Kansas Savannah College of Art and Design
Pennsylvania State University

2016 ECSU REU Mentors



Andrew Brumfield
TeraScan



Jeff Wood
Water Quality



Dr. Darnell Johnson
Outreach

<http://nia.ecsu.edu/ureomps/>

(252) 335-3696

REU Closing Events Program

Room 229 Dixon-Patterson Hall

Monday July 25, 2016

3:00 pm Research Poster Viewing
Review of Professional Websites

Team Report

Implementation & Documentation of Technology Training for Seniors and the PiMERS Middle School Program

Pizza Served

6:30 pm RS 502 meeting

Tuesday July 26, 2016

AM Teams Meet
9:30 am Breakfast in Dixon Hall
Review of Team Research Webpages
Remarks Dr. Van Newkirk, Vice Chancellor for Academic Affairs

Wednesday July 27, 2016

2:00 pm Eastern NC GRSS Chapter 03191 Meeting, Dr. Linda Hayden
Minutes from Past Meeting, Jeff Wood
IGARSS 2016, Beijing, China Travel Report, Cornelius Holness & Kamberlin King
Student Chapter Update, Andrew Brumfield

Team Reports

- *A Continuing Study of the Water Quality in the Pasquotank Watershed in Northeastern North Carolina*
- *Analyzing Long-Term Drought Effects on Land Surface Temperature and Vegetation Using NOAA Satellite Data*

Refreshments

Remarks Dr. Harry Bass, Interim Director ECSU Sponsored Programs



Thursday July 16, 2015

Final Written Reports and Task Sheets are Due
NC Coastal Studies Institute Field Trip Dr. Lindsay Dubbs, CSI Estuarine Ecology
Closing Dinner – Kelly’s Restaurant

Friday July 17, 2015

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

