

Engaging Minority University STEM Education Professors in the Science of Climate Change







Goal



- Empower faculty of education programs at Minority Serving Institutions to better engage their pre-service teachers in teaching and learning about global climate change through the use of NASA Earth observation sets.
- Key Element Summer workshop that provided the faculty with approaches to understanding climate change and its impacts on terrestrial and ocean ecosystems.



Summer Workshop 2012

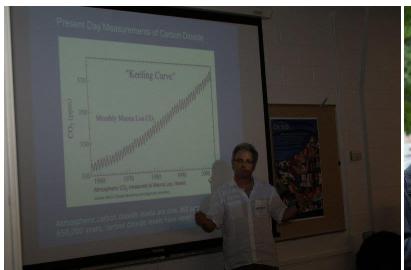


Delaware State
Elizabeth City State
Grambling
Hampton
Jackson State

Johnson C. Smith Mississippi Valley Morgan City State Norfolk State St. Augustine













Summer Workshop 2013



Alabama A&M Alcorn Delaware State Elizabeth City State Grambling Fort Valley State

Jackson State Norfolk State Texas State Tuskegee Virginia Union







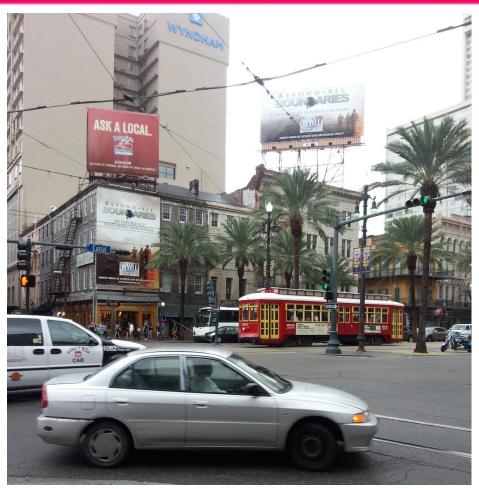








41ST ANNUAL CONFERENCE New ORLEANS, LOUSIANA SEPTEMBER 23-26, 2014 STEMulating Economic Growth Through









Dr. Waneene Dorsey **Grambling University**



Kaiem Frink Virginia Union University



Dr. Frvin Howard Elizabeth City State University



Dr. Loretta Jaggers **Grambling University**

Climate Literacy: Approaches to Multidisciplinary Climate Education in Higher Education Institutions II

Primary Conveners

Monica Bruckner Carleton College

Co-conveners

James Byrne University of Lethbridge
Stephen Hale University of New Hampshire
Leanne Little University of Lethbridge



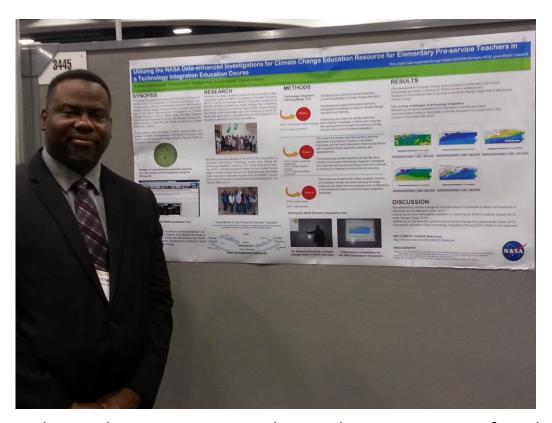


ESTEEM - Posters



Frink, K. 2014. Virginia Union University STEM Education for Pre-service Educators. Fall Meeting of the American Geophysical Union. San Francisco, CA.

ESTEEM - Posters



Howard, E. 2014. Utilizing the NASA Data-enhanced Investigations for Climate Change Education for Elementary Pre-service Teachers in a Technology Integration Classroom. Fall Meeting of the American Geophysical Union. San Francisco, CA.

ESTEEM - Posters



Jaggers, L. 2014. Pre-Service Teachers Enhance Climate Literacy in Writing Children's Books on Climate Literacy Concepts and Implementing Related Activities in the PK-12 Classroom. Fall Meeting of the American Geophysical Union. San Francisco, CA.

ESTEEM – Oral Presentations





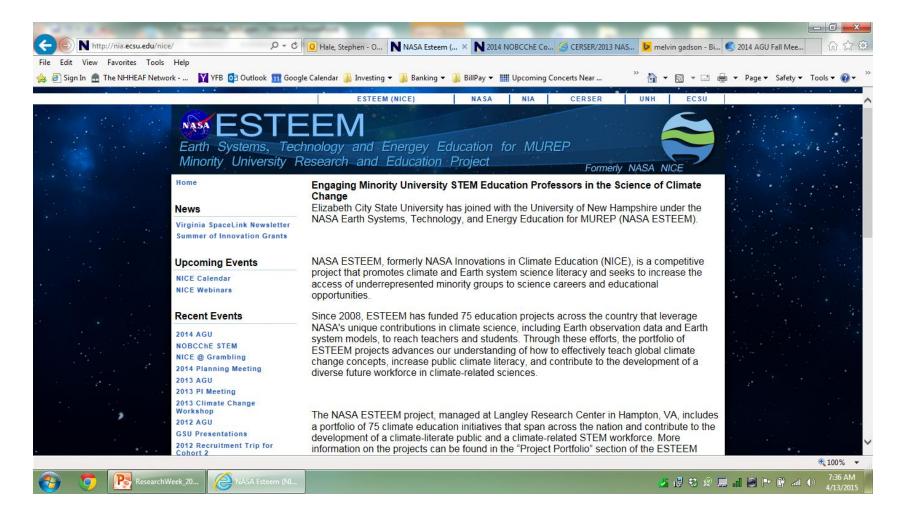
Dorsey, W. and T. Moore. 2014. Using NASA DICCE GIOVANNI to Prepare Pre-service STEM Teachers to Teach Climate Science. Fall Meeting of the American Geophysical Union. San Francisco, CA.

ESTEEM – Oral Presentations



Ozbay, G. 2014. Collaborative Education in Climate Change Sciences and Adaptation through Interactive Learning Fall Meeting of the American Geophysical Union. San Francisco, CA.

For more information about this ESTEEM project



http://nia.ecsu.edu/nice/