

# **AGU 2013**

## **TRAVEL REPORT**

Mr. Kaiem Frink Mathematics Instructor at Virginia Union University attended the 2013 American Geophysical Union (AGU 2013) as a NASA NICE participant of Cohort II. NASA Innovations in Climate Education (NICE) program, Elizabeth City State University (ECSU) has joined with the University of New Hampshire (UNH) in developing the program: “Engaging Minority University STEM Education Professors in the Science of Climate Change”. This program is designed to 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.

As an AGU presenter and first author on the project titled “NASA NICE Climate Change Education: Best Practices for Incorporating Climate Change Pedagogy” with co-authors Mr. Ervin Howard Elizabeth City State University; Dr. Edward Hill Fort Valley State University. This project addresses the Climate Literacy and standards that are currently in place in conjunction with the common core curriculum. Where a significant aspect of the project entails how STEM educators address faith based organizations in regards to Climate Change and or Literacy.

- On Monday there was several sessions from other NASA NICE funded projects which displayed the significant work that is be doing throughout the country.
- On Tuesday there was several oral session that I attended on Earth Science abroad in addition to an afternoon of Poster Session.
- On Wednesday we held our NASA NICE strategy meeting where we discussed on how to move forward with our projects at our respected institutions. Presented the submitted project titled NASA NICE climate change education best practices with Mr. Howard and Dr. Hill.
- On Thursday attended the AGU Market place full of Science vendors and demonstrations there was a model of Earth on a Sphere however it was sponsored by NOAA where there data sets are available online for free however the significant aspect is that why are we the science community representing data on a flat axis that is captured from a spherical shape? In addition to the . Bright STaRS: Bright Students Training as Research Scientists Posters

# **AGU 2013**

## **TRAVEL REPORT**

- On Friday we participated in the presentation with Dr. Jagers from Grambling State University, Lois Riccardio, Dr. Ashanti Johnson presentations on "IBP's Four-Prong Approach for Broadening Participation in the STEM Community"

Mr. Kaiem Frink was selected to participate in the 2013 Deep Submergence Science Committee (DESSC) is a standing Committee of the University - National Oceanographic Laboratory System (UNOLS). DESSC provides advisory responsibilities for the National Deep Submergence Facility which includes *Alvin*, *Jason/Medea*, and the *Sentry*. These vehicles are used for Ocean exploration at this event Mr. Kaiem Frink presented on the "Modeling Applications of Rogue Waves" In addition to titled "Cyber Infrastructure Research Investigating Correlation with Deep Sea Fiber Optic Cable Phase II" The project addressed how to satisfy the real time monitor systems that include ocean investigation is demonstrated in such policy as the *Stewardship of the Ocean, Our Coasts and the Great Lakes Act* warranting the use of spatial tools. The project addressed STEM skills critical to pipeline lifecycle that identifies as well as suggest the best direction for ocean science skill set dissemination.

That can be incorporated into formal ocean-informatics and or marine geo-informatics trainings critical to ocean data acquisition and research. The specific investigation has searched to frame the best practices of ocean data lifecycle and GIS tool integration that becomes useful to the ocean research community need to address deep sea fiber optic cables. The deep sea fiber optic cable efforts may be critical to future global communication, research capacity, exploration and what we know as the current day internet. Critical communication systems may be at risk. Hence, this project may incite research to mitigate such risk by proposing such intentional ocean learning skill.