



AEROKATS and ROVER Education Network (AREN)

Wayne RESA, Wayne MI - Monthly Status – September, 2019



Need(s) or Areas to Watch

- Continued development of AREN Project Theory of Action for Enabling STEM Education with Evaluators

Look Ahead

- GLOBE Learning Activities Development; Sci Act 2.0 Preparation; and Annual Report



AREN Team Meeting

Nugget Submissions

Montana State AREN Team Hosts Science Pub Talk on GLOBE Observer's Lewis & Clark National Historic Trail Citizen Science Challenge

August 6, 2019 – Bozeman, Montana

Land cover scientist Peder Nelson visited Montana State University on Aug. 6, 2019 to present a "Science Pub Talk" called GO on a Trail to Monitor Changes on Planet Earth.

The talk was hosted by NASA-AREN (AEROKATS and ROVERs Education Network) and its partners, the MSU Science Math Resource Center and Montana's National Science Foundation EPSCoR program.

Nelson, a land cover scientist at Oregon State University, spoke about GLOBE Observer's Lewis & Clark National Historic Trail citizen science challenge: what maps and data can tell us about land use change; how remote sensing can help forecast floods, fires and water flow, including snow for skiing; and how all of us as citizen scientists can contribute our own observations to the land cover puzzle.


The event was part of the Science Summer Institute, a professional development meeting for K-12 educators and administrators. The talk, which was held at Burkhout Brewing, was also open to the public.



Upward Bound STEM Day with NASA/AREN
July 11, 2019 – University of Maryland Eastern Shore

On July 11th, the University of Maryland Eastern Shore hosted thirty (30) *Upward Bound* students and seven (7) teachers supported by college mentors to partake in the first STEM Day event with NASA/AREN. Previously, there was a teacher workshop on May 25th for training purposes in efforts to aid in the organizing of the STEM Day Event. The students were involved in a workshop introduction (1.5 hours), design challenge (1.5 hours) and kite flying (1 hour). The event took place from 9:00 am to 1:00 pm. The event was organized by Dr. Willie Brown and Dr. Nicole Gale.

There were three (3) teams with two (2) assigned teachers and one (1) college mentor in two (2) out of the (3) groups. Dr. Gale had two (2) college mentors assigned to her team since she was the only assigned teacher. There was a ten (10) member team with the three groups and Dr. Brown was the rotating instructor. It was amazing to witness 30 students engaged, all who were flying kites at one time.



Updates/Changes

- Website Updates
- Monthly – Earthlings, NASA Headquarters, SciAct Working Group and AREN Team Monthly Online/Phone Conferences
- 3 Flights Added to AEROKATS Mission Mapper – from the Chesapeake Bay Environmental Center
- AREN Project presentation “What’s Up at Wallops” at the Wallops Visitor Center
- AREN / GLOBE Presentation for Undergraduate Education Students at Madonna University in Livonia, MI
- Advisory Board Meeting of the Rouge Education Project
- 10 New GLOBE Teachers – University of Michigan-Dearborn
- AREN Annual Team Meeting was held at Chesapeake Bay Environmental Center

Cross - Collaboration

- Mission Earth – Participation in the Middle School Weather and Climate Workshop to be held at Lawrence Technological University in partnership with the Metropolitan Detroit Science Teachers Association
- Tracy Ortiz, Clippert Multicultural Honors Academy in Detroit, selected to participate in GLOBE’s Virtual Exchange Toolkit Pilot Program
- Montana State University bringing together their STEM program and SciGirls
- GLOBE Learning Activities development in collaboration with NESEC (Theresa) and Goddard (Todd)