

AGU-NESTA Geophysical Information for Teachers (GIFT) Workshop 2017
Hot Topics in Earth and Space Science!

Hilton Riverside – Third Floor, Camp

Monday, December 11

7:30 – 8:00 Continental Breakfast

8:00 – 8:05 **Welcome from AGU** – Dr. Pranoti Asher, AGU Higher Education Manager

8:05 – 8:10 **Welcome from NESTA** – Dr. Carla McAuliffe, Executive Director, NESTA

8:10 – 8:15 **Logistics** – Dr. Pranoti Asher, AGU Higher Education Manager

8:15 – 9:45 ***Playing Against Nature: Natural Hazards Mitigation as a Relevant (and NGSS-focused) Topic for Scientific Argumentation*** – Dr. Seth Stein (Northwestern University), Michael Hubenthal (IRIS Consortium), and John Taber (IRIS Consortium)

9:45 – 10:00 BREAK

10:00 – 11:30 ***Understanding the Anthropocene: New Three-dimensional Learning Tools from UCMP and HHMI*** – Dr. Jessica Bean (University of California, Berkeley Museum of Paleontology), Mark Nielsen (Howard Hughes Medical Institute), and Aleeza Oshry (Howard Hughes Medical Institute)

11:30 – 12:15 LUNCH

12:15 – 1:15 **Share – a – Thon**

1:30 – 3:00 ***Bringing the Tundra to Your Classroom: Hands-on, NGSS-Aligned Lessons and Lab Activities for Teaching Climate Change, Focusing on Thawing Permafrost and the Earth's Carbon Cycle*** – Dr. Rose M. Cory (University of Michigan), Bruce Taterka (West Morris Mendham High School), Regina Brinker (Livermore Valley Joint Unified School District)

3:00 – 3:15 Discussion, Closing for Day 1

3:30 – 5:30 Optional Field Trip – New Orleans French Quarter: How Geology Built and Threatens to Destroy a World Class City in the Era of Climate Change – Sadredin Moosavi (GSA) and Dinah Maygarden, University of New Orleans – meeting place TBD.

Tuesday, December 12

7:30 – 8:00 BREAKFAST

8:00 – 8:10 **Overview of Day 2 Plans** – Dr. Carla McAuliffe, Executive Director, NESTA

8:10 – 9:40 **Melting Greenland Ice Sheet, Melting Arctic Sea Ice - Global Causes and Global Effects** – Dr. Asa Rennermalm (Rutgers University), Dr. Missy Holzer (Chatham High School), and Peter Sinclair (Yale Climate Connections)

9:40 – 10:00 Break

10:00 – 11:30 **Tracking Mosquito Vector-borne Disease using GLOBE Observer Mosquito Habitat Mapper: Connections between Earth System, Climate Change and Human Health** – Dr. Russanne Low (Institute for Global Environmental Strategies), Cassie Soeffing (Institute for Global Environmental Strategies), and Dr. Rebecca Boger (Brooklyn College)

11:30 – 12:15 LUNCH

12:15 – 1:15 **Share – a – Thon**

1:15 – 2:45 **Constructing Knowledge using the Climate Explorer for the U.S. Climate Resilience Toolkit** – Dr. Forrest Melton (California State University Monterey Bay), Dr. Corin Slown (California State University Monterey Bay), and LuAnn Dahlman (NOAA Climate Program Office)

2:45 – 3:00 Discussion, Closing, Next Steps

3:00 – 3:20 Workshop Evaluation