

AGU-NESTA Geophysical Information for Teachers (GIFT) Workshop 2018

Hot Topics in Earth and Space Science

Renaissance – Room 8-9

Monday, December 10

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 **Hands-on Learning About the Atmosphere in the New NGSS-Aligned GLOBE Weather Curriculum** – Dr. Lisa S. Gardiner (University Corporation for Atmospheric Research), Becca Hatheway (University Corporation for Atmospheric Research), and John Ristvey (University Corporation for Atmospheric Research)

9:45 – 10:00 BREAK

10:00 – 11:30 **Flood Hazards in the 21st Century** – Dr. Joel Johnson (University of Texas at Austin), Alison Mote (University of Texas at Austin), and Paul Southard (University of Texas at Austin)

11:30 – 12:15 LUNCH

12:15 – 1:15 **Share – a – Thon**

1:30 – 3:00 **Soil: a vital natural resource** – Dr. Ashlee Dere (University of Nebraska at Omaha), Dr. Carol Engelmann (Einstein Evaluation Group), Dr. Missy Holzer (Chatham HS), Dr. David Lindbo (USDA)

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

4:00 – 6:00 **Optional Education Session** – ED14A: Partnerships Between K–12 Teachers/Informal Educators and Scientists: Lessons Learned I (Location: Marriott Marquis, Marquis 7-8)

6:00 – 8:00 **Optional Exhibit Hall Opening** – Hall E

Tuesday, December 11

7:30 – 8:00 Continental Breakfast

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

8:10 – 9:40 ***Algae in our backyard: An ArtScience Exploration*** – Kyle Browne (Massachusetts Institute of Technology) and Dr. Sarah Rosengard (University of British Columbia)

9:40 – 10:00 Break

10:00 – 11:30 ***Earth Science All Around: Using 360 Imagery To Support Place-based Instruction*** – Aida Awad (Einstein Fellow), Dr. Melinda Daniels (Stroud Water Research Center), Cheryl Manning (Evergreen High School), Dr. Ed Robeck (American Geosciences Institute), and Dr. Steve Semken (Arizona State University)

11:30 – 12:15 LUNCH

12:15 – 1:15 **Share – a – Thon**

1:15 – 2:45 ***Investigating Weather and Natural Hazards with Next Generation Satellite Data*** – Dr. Scott Lindstrom (Cooperative Institute for Meteorological Satellite Studies), Margaret Mooney (Cooperative Institute for Meteorological Satellite Studies), and Tim Schmit (National Oceanic and Atmospheric Administration)

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

3:00 – 3:20 Workshop Evaluation

3:30-5:30 – **Optional Field Trip – Rockin' DC: Building Stones of the National Mall.**

The National Mall is a unique architectural annex to the urban geology of Washington, DC - a historic and old federal city located at the intersection of two distinctive geologic provinces. Our two-hour walking tour will consider some of the most noteworthy building stones used in the construction of the monuments, memorials, and buildings located on the Mall, and the far-reaching geological stories they can tell to those who care to look closely. Lead by Dr. Ken Rasmussen and Dr. Victor Zabielski (Northern Virginia Community College).