

**AGU-NESTA Geophysical Information For Teachers (GIFT) Workshop 2016**  
**Hot Topics in Earth and Space Science!**

Marriott Marquis, Golden Gate A

**Monday, December 12**

7:30 – 8:00 Continental Breakfast

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

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

8:10 – 8:15 **Logistics** – Dr. Pranoti Asher, AGU Education and Public Outreach Manager

8:15 – 9:45 **Planet Impact: Galvanize Everyone to Explore Science** – Dr. Britney Schmidt (Georgia Institute of Technology), Whitney Cobb (McREL International), Theresa Summer (Astronomical Society of the Pacific), Dr. Sanlyn Buxner (Planetary Science Institute), and Dr. Jake Noel- Storr (InsightSTEM)

9:45 – 10:00 BREAK

10:00 – 11:30 **The Shale Hills Critical Zone Observatory Virtual Fieldwork Experience: A Gateway to the NGSS's Three Dimensional Science**– Dr. Tim White (Pennsylvania State University), Dr. Don Duggan- Haas (The Paleontological Research Institution), and Sarah Sharkey (Pennsylvania State University)

11:30 – 12:15 LUNCH

12:15 – 1:15 **Share – a – Thon**

1:30 – 3:00 **Can Humans Cause Earthquakes? An Argument Driven Inquiry Lesson to Target 3D-NGSS- Learning**– Dr. Danielle Sumy (IRIS Consortium) and Michael Hubenthal (IRIS Consortium)

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

3:30 – 5:30 Optional Field Trip – **A Ramble through San Francisco's Geology**– Dr. John Karachewski (EPA) - meet in lobby of Marriot Marquis near luggage check-in / concierge.

## Tuesday, December 13

7:30 – 8:00 BREAKFAST

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

8:10 – 9:40 ***Climate Detectives: Solving a Climate Mystery on the JOIDES Resolution***– Dr. Sean Gulick (UT- Austin), Alison Mote (UT- Austin), Sharon Cooper (Lamont- Doherty Earth Observatory), and Dr. Katherine Elliins (UT- Austin)

9:40 – 10:00 Break

10:00 – 11:30 ***Images of a Changing Planet: Using Remote Sensing Data and Images to Investigate Land Surface Changes*** – Dr. John Bailey (Google Geo Education), Dr. Ed Robeck (American Geosciences Institute, Center for Geoscience and Society), Peder Nelson (Oregon State University), Aida Awad (Einstein Distinguished Educator Fellow, Department of Energy), and Dr. Susan Sullivan (University of Colorado)

11:30 – 12:15 LUNCH

12:15 – 1:15 ***Earth Cache Demonstration***- Matthew Dawson, Program Officer, Education and Outreach at Geological Society of America

1:15 – 2:45 ***GIS for Earth and Environmental Sciences*** – David DiBiase, Dr. Tom Baker (Esri), and Roger Palmer (Bishop Dunne High School)

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

3:00 – 3:20 Workshop Evaluation