

**AGU-NESTA Geophysical Information For Teachers (GIFT) Workshop 2015**  
**Hot Topics in Earth and Space Science!**

**Marriott Marquis, Golden Gate A**

**Monday, December 14**

7:30 – 8:00 BREAKFAST

8:00 – 8:05 **Welcome from AGU** – Bethany Adamec, AGU Education and Public Outreach Coordinator

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

8:10 – 8:15 **Logistics** – Bethany Adamec, AGU Education and Public Outreach Coordinator

8:15 – 9:45 ***From ship to shore: Communications from the front lines of marine debris research*** – Mary Engels (University of Idaho) and Laura Nelson (Sea Education Association)

9:45 – 10:00 BREAK

10:00 – 11:30 ***Searching for Earth's Twin: NASA's Kepler Mission--1,000 Exoplanets and Counting*** – Edna DeVore (SETI Institute) and Alan Gould (Lawrence Hall of Science)

11:30 – 12:15 LUNCH

12:30 – 1:30 **TOWN HALL: *Next Steps for the Next Generation Science Standards in Earth and Space Science: A Town Hall Discussion*** – Aida Awad (Maine Township High School), Susan Sullivan (CIRES/CU Boulder), and Edward Robeck (AGI) **Moscone West 2007**

1:45 – 3:15 ***Conserving our nonrenewable resources: Developing a theme-based NGSS-aligned integrated science unit using the Mi-STAR method*** – Emily Gochis, Stephanie Tubman, Luke Bowman, Steve Mattox, Doug Oppliger, and Robert Handler (Michigan Technological University – MiSTAR Program)

3:15 – 3:30 Discussion, Closing for Day 1

3:30 Adjourn for Exhibits, Meeting

4:00 – 6:00 Optional Field Trip – ***A Ramble through San Francisco's Geology***– Dr. John Karachewski (EPA) - meet in lobby of Moscone South near luggage check-in.

## Tuesday, December 15

7:30 – 8:00 BREAKFAST

8:00 – 8:10 Overview of Plans for Day 2, Logistics - Bethany Adamec, AGU Education and Public Outreach Coordinator

8:10 – 9:40 ***Tracking Change over Time: Earth Imagery in the Classroom*** – Thomas Adamson (SGT Inc.) and Naga Manohar Velpuri (ASRC InuTeq LLC.)

9:40 – 10:00 Break

10:00 – 11:30 ***Teaching Mineral Resources with an Emphasis on the NGSS Practices and Crosscutting Concepts*** – Aida Award (Maine East High School), Susan M. Sullivan (University of Colorado), and Edward Robeck (AGI)

11:30 – 12:15 LUNCH

12:15 – 1:15 **Share-A-Thon**

1:15 – 2:45 ***The Science of Fracking*** – Gregory Lackey (University of Colorado Boulder), Lisa Gardiner (UCAR Center for Science Education), and Daniel Birdsell (University of Colorado Boulder)

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

3:00 – 3:20 Workshop Evaluation

3:45 Optional - ***Special Presentation for GIFT Registrants at the NASA HyperWall*** – Cassie Soeffing (IGES) and NASA scientists from the Earth Science Division, Planetary Science Division, and Heliophysics Division. See the latest scientific research, geared towards educators, in a visually dynamic way on the NASA HyperWall in the Exhibit Hall.