

AGU-NESTA Geophysical Information for Teachers (GIFT) Workshop

Hot Topics in Geoscience!

Moscone South Mezzanine Rooms 250 & 262

Thursday, December 16

7:30 – 8 BREAKFAST

8:00 – 8:15 **Introductions** – Roberta Johnson (NESTA) and Pranoti Asher (AGU)

8:15 – 12 Natural Hazards

8:15 – 10:00

Earthquakes: New Science Is Changing our View of Earthquake Hazards and Predictability – John Taber and Michael Hubenthal (IRIS)

Break: 10-10:15

10:15 – noon

Radar and Weather Together: Vortex II – Bob Henson, Tim Barnes, and Susan Foster (UCAR)

12:00 – 1:00 LUNCH

1-5:00 Climate Change

1 – 1:40 An Update on Climate Change – Timothy Killeen (NSF)

1:40 – 2:15 Teaching Climate Change Today – Facilitated Discussion (Roberta Johnson, NESTA)

15 min Break

2:30 – 3:45 Ice Core Drilling and Classroom Activity – Joe McConnell, Linda Morris, and Jo Dodds (US Ice Core Drilling Program)

2:30 Introductions

2:35 Science Presentation: Dr. Joe McConnell

3:10 Polar Detectives Activity: Linda Morris and Jo Dodds

3:45 – 4:45 Climate Change Activities – Missy Holzer, Ardis Herrold, Michael Passow (all NESTA), Randy Russell (UCAR), Roberta Johnson (NESTA)

- Thermal Expansion and Sea Level Rise
- CO2 Sources and Sinks
- Plugged into CO2
- Paleoclimates and Pollen

4:45 – 5 pm Discussion, Plan for Day 2

5 pm Adjourn for the Day

Friday, December 17

7:30 – 8 am BREAKFAST

8:00 – 8:15 am Overview of Plans for Day 2, Logistics

8:15 – 10 am **Natural Resources**

8:15 – 10 am Oil Spill talk and Activities

8:15 – 8:20 Introductions

8:20 – 9:10 Science Talk by Amy MacFadyen, Christopher Barker, and Lindsay Knippenberg (NOAA)

9:10 – 10:00 Classroom Activity

10 - 10:30 BREAK (Share-a-Thon set up)

10:30 – 11:30 **AGU-NESTA GIFT Share-a-Thon!**

11:30- 12:30 LUNCH

12:30 – 4:30 pm **Space and Planetary Hot Topics**

12:30 – 1:00 Earth Science – Electromagnetic Spectrum - Dr. Eric Brown de Colstoun,

1:00 – 2:30 Planetary Science – Interplanetary Space Weather and the Moon/LRO - Dr. Diane Wooden, Andrea Jones

2:30 – 2:45 break

2:45 – 4:15 Heliophysics – STEREO Mission/Space Based Solar Observatories - Dr. Terry Kucera, Deborah Scherrer, Nicholas Gross

4:15 – 4:30 WrapUp Space and Planetary Hot Topics

4:30 – 5 pm **Closing AGU-NESTA GIFT Workshop Discussion, Next Steps, Evaluation**

5 pm ADJOURN