



HELIOPHYSICS

Educator Ambassador Program

" Exploring Boundaries in Space "

Alaska 2009

HEA Teacher Agenda

University of Alaska, Anchorage

June 21 - 26, 2009

Sunday – JUNE 21, 2009

5: 00 pm – Rooms 106 and 107 of the Commons

Welcome to AK!! And Ice Breaker

Casual activities and dinner:

Dinner, ☼ Planetary Shows, and Hands-on Activities

continued on next page...

☼ indicates we will be asking for your feedback on the value of these parts of the workshop





HELIOPHYSICS

Educator Ambassador Program

" Exploring Boundaries in Space "

Alaska 2009

Monday – JUNE 22, 2009

8:00 am – Room 106

Introductions

- ☼ Power of the NASA Meatball – HEA team Intro
- Teachers Introduction (name, state, grade(s) teaching)

- ☼ Activity: Mapping Magnetic Fields – Victor Trautman, Cris DeWolf

Activities: Space Science Sequence (SSS) Unit 1

- ☼ 1.1 Mystery & Research – Wendy Esch, Victor Trautman
- ☼ 1.3 Solar Output (EM Spectrum & particles) – Cris DeWolf, Laura Orr
- ☼ 1.4 Stormy Sun – Laura Orr, Jim Bean

11:30 am – Cafeteria

Lunch

12:30 pm – Room 106

- ☼ Discussion: SSS Unit 1 NASA support resources – Laura Peticolas
- ☼ Video and Skype Presentation: What can we learn from SSS? – Greg Schultz
- ☼ Skype Presentation: NASA Heliophysics Elementary Grade Focus – Ruth Paglierani

The Heliopause Presentation and Activities – Lindsay Bartolone

- ☼ Presentation: IBEX mission
- ☼ Activity: Four states of matter
- ☼ Computer Interactive: Plasma Pinball
- ☼ Demonstration: A water analogy

Evaluation: what is it and why are we doing it? Getting your feedback – Allyson Walker

4:00 pm – Free

5:00-6:30 pm – Cafeteria

Dinner

Night Free

☼ indicates we will be asking for your feedback on the value of these parts of the workshop





HELIOPHYSICS

Educator Ambassador Program

" Exploring Boundaries in Space "

Alaska 2009

Tuesday – JUNE 23, 2009

8:00 am – Room 106

- ☀ Discussion: HEA roles and responsibilities – Laura Peticolas
 - ☀ Presentation: Magnetospheres Protecting Atmospheres – Pat Reiff
 - ☀ Panel: THEMIS Magnetometers in the Classroom – THEMIS Teachers
- Activities: Space Science Sequence (SSS) Unit 1
- ☀ 1.6 UV Bead Experiments – Jim Bean, Wendy Esch

11:30 am – Cafeteria

Lunch

12:30 pm – Room 106

- ☀ Presentation: Sun-Earth Connection – Laura Peticolas
- Activities: Space Science Sequence (SSS) Unit 1
- ☀ 1.5 Balloon-Rocket Mission and Layers of the Atmosphere – Dawn Turney
 - ☀ Presentation: The upper atmosphere and TIMED mission – Dawn Turney
- Reviewing workshop goals – Lindsay Bartolone
- Evaluation: Getting your feedback – Allyson Walker

4:00 pm – Break

5:00-6:30 pm – Cafeteria

Dinner

6:30 pm – Room 107

- ☀ Planetarium Shows – Pat Reiff, Lindsay Bartolone

8:00 pm – End

☀ indicates we will be asking for your feedback on the value of these parts of the workshop





Alaska 2009

Wednesday – JUNE 24, 2009

8:00 am – Room 106

- ☼ Discussion: HEA roles and responsibility - Laura
- ☼ Presentation-Demo: Light Interactions with Matter, Absorption, Emission, Scattering, Reflection – Paul Adams and Barbara Maggi
- ☼ Experiment: The Greenhouse Effect – Paul Adams, Barbara Maggi
- ☼ Demo-Activity: A cloud by any other name – Paul Adams, Barbara Maggi
- ☼ Video: AIM mission and Noctilucent Clouds – Paul Adams, Barbara Maggi
- ☼ Skype Presentation: AIM science – Jim Russell

11:30 am – Cafeteria

Lunch

12:30 pm – Room 106

- ☼ Pre-assessment & KWL chart: climate versus weather – Paul Adams, Barbara Maggi
 - ☼ Activity: Ice Core Analogy – Paul Adams, Barbara Maggi
 - ☼ Presentation: Contributions to climate change from solar variations versus human activity – Paul Adams, Barbara Maggi
 - ☼ Activity: Earth as a System (GLOBE) – Paul Adams, Barbara Maggi
- Reviewing workshop goals – Lindsay Bartolone
- Evaluation Feedback – Allyson

4:00 pm – Break

6:30 pm – Texas Gail’s House

Dinner: Alaska Cook-out

Free Time

2:00 am (Thursday) Noctilucent Cloud Observation Trip – (optional)

☼ indicates we will be asking for your feedback on the value of these parts of the workshop



Thursday – JUNE 25, 2009

7:30 am – Vans & Cars: Leave for Byron Glacier Hike and Portage Glacier

☀ Byron Glacier

10:00 am – Portage Glacier

☀ Portage Glacier Field Work

12:00 pm – Box Lunches

3:30 pm – Outdoor Patio outside of Room 106

☀ Play and Discussion: Acting Teacher Workshops – Lindsay Bartolone, Laura Peticolas, HEA Ambassadors

☀ Working Groups: Creating Workshop Agendas

5:30-6:30 pm – Cafeteria

Dinner

Post-Assessment Questionnaire on your own

☀ indicates we will be asking for your feedback on the value of these parts of the workshop





HELIOPHYSICS

Educator Ambassador Program

" Exploring Boundaries in Space "

Alaska 2009

Friday – JUNE 26, 2009

8:00 am – Room 106

☼ Working Groups: Creating Workshop Agendas (*cont.*)

☼ Discussion: Workshop Agendas

Ending Remarks – Laura Peticolas and Lindsay Bartolone

Final Evaluation

11:30 am – Lunch

Box Lunches, take with you to the airport if needed

End of Workshop – Safe Travels!!

☼ indicates we will be asking for your feedback on the value of these parts of the workshop

