

Field Education and Support by the UNAVCO GAGE Facility
UNAVCO, 6350 Nautilus Drive, Boulder, Colorado
November 17-18, 2014

Monday, November 17

- 8:10 *Meet in hotel lobby for travel to UNAVCO*
- 8:30 *Arrive at UNAVCO; breakfast*

- 9:00 *Introduction to the workshop; welcome from M. Miller, UNAVCO president*
- 9:05 *Group introductions*
- 9:30 *Overview of UNAVCO, workshop goals, and objectives (D. Charlevoix)*
- 9:50 *Introduction to UNAVCO field support, equipment, geodetic imaging and field education (C. Crosby)*
- 10:10 *Importance of field education, research, broader impacts (J. Ryan)*
- 10:30 *Field education and best practices (D. Mogk)*

- 10:50 *Break*

Current GPS/TLS Field Educational Programs Supported by UNAVCO

- 11:10 *Bruce Douglas (IU): TLS at the IUGFS field camp*
- 11:30 *Nathan Niemi (U. Michigan): TLS at U. Michigan field camp*
- 11:50 *Bob Wang (UH): GPS and LIDAR Education at UH*

- 12:15 *Lunch*

Current field educational programs (imaging and GPS)

- 1:00 *Katie Kumamoto (Stanford): Lasers on Landscape: Setting up a TLS field course at Stanford*
- 1:20 *Beth Bartel (UNAVCO, for Michael Hamburger (IU)): GPS at the Indiana University Sierra field class*
- 1:40 *D Sarah Stamps (UCLA): Field Methods for High Precision GPS Measurements: lessons from 3 short-courses in Africa*
- 2:00 *Breakout session: What are successes, challenges and existing complimentary materials for field education using geodetic technologies? (with a focus on the technologies discussed in the presentations)*

- 2:45 *Break (in kitchen)*
- 3:00 *UNAVCO Facility tour and group photo*

Current field educational programs continued (GPS and GIS-based mapping)

- 3:30 *Tina Niemi (UMKC): Using RTK GPS and developing tablet fieldbooks for undergraduate research*
- 3:45 *Jeff Snyder (BGSU): Integrating GPS/GIS-Based Mapping in a Mobile Five-Week Field Geology Course Taught in New Mexico and Colorado*
- 4:00 *Ben Crosby (ISU): Finding a Home for Technology in a Traditional Geology Field Camp: Lessons from Idaho's Lost River Field Station*

- 4:15 Breakout session: What are successes, challenges and existing complimentary materials for field education using geodetic technologies? (with a focus on the technologies discussed in the presentations)
- 5:00 Group report out
- 5:20 Wrap up, goals for Day 2
- 5:40 *Return to hotel*
- 6:30 *Dinner at Oskar Blues, Longmont*
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Tuesday, November 18

- 8:10 *Meet in hotel lobby for travel to UNAVCO*
- 8:30 *Arrive at UNAVCO; breakfast*

9:00 Recap of Monday, agenda and goals for today (D. Charlevoix)

Looking forward: program development

- 9:15 Karl Kreutz (U. Maine): *Field education in Alaska and REU planning*
- 9:30 Diedre Lamb (U. Arizona): *Accessibility issues, inside and outside the classroom*
- 9:45 Rick Bennett (U. Arizona): *Experiences developing an accessible field trip to the Grand Canyon*
- 10:00 Breakout Discussion: What can UNAVCO do to better support field education in the areas of: 1) equipment and technical support, 2) staffing support and training, 3) curriculum materials and online resources.
- 10:45 *Break*
- 11:00 Breakout Discussion continued.
- 11:45 Reports from breakout & discussion
- 12:15 *Lunch*
- 1:15 Final breakouts & generation of preliminary set of community recommendations to UNAVCO
- 2:15 Report out
- 2:45 Workshop wrap up, next steps
- 3:00 *Workshop adjourns*