

**Dates: Sunday / Monday, March 8-9, 2015**

Present: Jeff Ryan, Andrew Goodwillie, Cassidy Jay, Josh Roering, Lisa Ely, Sarah Robinson (for Steve Semken), David Schmidt, Lina Patino (NSF)

UNAVCO: M. Meghan Miller, Donna Charlevoix, Beth Bartel, Aisha Morris, Shelley Olds, Beth Pratt-Sitaula, Melissa Weber

Absent: Steve Semken

Via Teleconference: Rick Bennett, John Taber, Becca Walker, Bruce Douglas

**Agenda Items****Sunday, March 8, 2015 (no UNAVCO staff present)**

- I. Introductions, Dinner
- II. Review of Agenda
  - a. Approval of Minutes
  - b. Review of committee charter and charge, identification of secretary
- III. Whitepapers for GAGE Future Workshop

**Monday, March 9, 2015**

- I. Introductions, Overview of Agenda – J. Ryan
- II. Overview of Implementation Plan – D. Charlevoix
- III. Report from EarthScope – S. Robinson
- IV. Report from IRIS – J. Taber
- V. Field Education Initiative – D. Charlevoix/B. Pratt-Sitaula
- VI. Geo-Workforce Development – D. Charlevoix/A. Morris

**J. Ryan opens meeting at 5:30p.m. MST, March 8, 2015**

- I. **Approval of Minutes– J. Ryan**
  - Committee unanimously votes to approve the minutes from the January 2015 Teleconference.
- II. **Whitepapers for GAGE Future Workshop– J. Ryan**

J. Ryan charges the committee to discuss and write Whitepapers for the upcoming GAGE Futures Workshop in early May 2015. Deadline for papers is April 15, 2015. Planners realized that direct funding is provided to ECE projects, which justifies a presence/role at the workshop. Committee decides that core subjects for papers will focus on

  - Diversity in the workforce
  - Authentic Data in science education

**Meeting adjourns at 8:00pm MST****J. Ryan opens meeting at 8:03a.m. MST, March 9, 2015**

- III. **Introductions, Overview of Agenda– J. Ryan**

J. Ryan reviews agenda and a round-table introduction of the committee and the UNAVCO ECE team is completed.
- IV. **Overview of Implementation Plan – D. Charlevoix**

The ECE Implementation Plan was updated in November 2014. This is the roadmap for work activities for FY 2015.

D. Charlevoix summarized the reporting to NSF, Broader Impacts, and GAGE Annual Reporting. ECE is now responsible for leading the effort to capture metrics on all UNAVCO outreach efforts.

**ECE Activities**

Professional Development Short Courses

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- At UNAVCO and at conferences; funds are from participant support through the GAGE award

Committee suggestions and questions: Capturing the workshops and posting the files on-line (e.g. on YouTube) is really important. How to capture them in digestible chunks? And, how to advertise the availability of the archived workshop recordings? How to reach international audiences?

International capacity-building activities M. Miller has briefly outlined some international collaborations, e.g. COCONet and a South American effort.

ACTION: C. Jay to provide more info/ideas to D. Charlevoix in regards to getting word of short courses out to graduate students.

ACTION: D.Charlevoix to contact WinSAR/D. Schmidt to work collaboratively on getting word out about short courses

ACTION: A. Goodwillie to send listserv ideas to Donna (check GMA webinar listservs)

#### Educational Resources

- A fully revised module of *Taking the Pulse of Yellowstone's "Breathing" Volcano: Problem-Based Learning in America's First National Park* was posted online in February.
- GPS animations on YouTube are available to support the GETSI curriculum development project. GETSI project is continuing to work on *Visible Earthquakes* and view/manipulate interferograms.

Geodesy Tools for Societal Issues (GETSI). The GETSI goal is to be done within funding deadline of 2016. B. Pratt-Sitaula solicits help from committee to work on next phase. The next working idea is to complete a few more modules at the majors level and retool information for undergrad and faculty learning opportunities.

- GETSI - <http://serc.carleton.edu/getsi/index.html>
- Visible Earthquake InSAR tool - <http://www.3ptsience.com/earthquake>
- GPS glaciers animation - <https://www.youtube.com/watch?v=FVm3rZZs49s&list=PLzmugeDoplFOot41MIBBZiLYBCBoM-p1P>

#### **Community Communications**

The communications goal is to facilitate science and education to the community and beyond.

- Museum Exhibit at Hatfield Marine Science Center– close to 50% of science center visitors go thru our exhibit spending several minutes with a few interacting with the exhibit around 15 minutes.
- B. Bartel is planning to participate in a series of events commemorating the 35<sup>th</sup> anniversary of the 1985 Mt. St. Helen's eruption.
- PBO Playing cards

ACTION: L.Ely and S.Olds to work offline on L. Ely's experiences in the museum realm regarding funding.

ACTION: B. Bartel to reach out to A. Goodwillie to get information poster printing for the PBO Cards connections

ACTION: J. Taber and D. Schmidt to send names for B. Bartel to contact regarding Pacific NW/ Mt. St. Helens work

ACTION: Andrew: Send iMUSH contact info to Beth Bartel

**V. Overview of EarthScope Actives – S. Robinson**

The EarthScope National Office is conducting a series of K-12 workshops centered on Native American students, across the southwest, Dakotas. The national office handoff is scheduled to take place at the National Meeting. UNAVCO will offer two workshops at the ES National Meeting – a technical one on strain meters, and one on early-career mentoring. S. Robinson demonstrated a beta version ES station database that is being generated with help from N.Nguyen at UNAVCO.

ACTION: A. Goodwillie to check who is new EarthScope station info is a WFS. Add to GMA  
ACTION: B. Pratt-Sitaula and S. Olds to provide some offline insight to S. Robinson for the station database map.

**VI. Overview of IRIS Activies – J. Taber**

- As per the cooperative agreement IRIS is working on EPO evaluations methods.
- EPO is working on white papers for the Futures Workshop collaboratively with the other two committees.
- Working with UNAVCO on a Workforce GeoPATHS program – 4 lectures at minority-serving schools.

Joint UNAVCO/IRIS field trip, maybe seek money to have students stay on for GSA meeting. The Early-Career joint lunch at AGU was successful and will be done again.

**VII. Field Education Initiative – D. Charlevoix/B. Pratt-Sitaula**

Donna and Beth provided an overview of efforts to move forward with a geodesy field education program, per the community's request and with their input. The final workshop report is post on the UNAVCO website. <http://www.unavco.org/education/advancing-geodetic-skills/short-courses/2014/field-education/14-field-educ-report-final.pdf>

UNAVCO will have a summer intern to work on field education activities that will help support a proposal to resource future field education activities. Other activities suggested by the Advisory Committee:

- Provide different elements such as Short courses, educational modules,
- Secure funds from NSF and others
- Solicit input from other UNAVCO advisory committees
- Seek exploratory money to sort out different pieces of logistics
  - SEED Grant from NCALM
  - Provide paid onsite training for faculty
  - Have museums pay for applications for new exhibits – paying portion of manufacturing
- NSF-IUSE for explanatory proposals for field ed. on larger scale project.

**VIII. NSF Reminders – L. Patino**

Lina Patino from NSF joins and thanks UNAVCO ECE and the committee for their hard work. She reminds all of the funding opportunity: GEOPATHS/IUSE – deadline letter of intent August, proposals due in October for IUSE EHR solicitation

**IX. Workforce Development Discussion Highlights – D. Charlevoix/A. Morris**

RESESS' 5-year award ended August 2014. The program is funded via supplements to GAGE. Brief discussion of other potential geoworkforce activities.

Action: A. Goodwillie to send NASA Careers DVD link:  
<http://xrt.cfa.harvard.edu/outreach/dvd/dvd.php> to A. Morris

**Meeting adjourns at 4:00pm**

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