



Post-Disaster Reconnaissance 1-Day Workshop

Friday, 7 November 2014

*Sponsored by GEER in conjunction
with the University of Washington*

**Location: University of Washington Campus
Room 332 of the HUB Building (see map on p. 3)**

**Parking info at: <http://www.washington.edu/facilities/transportation/park-self-serve>
(note that closest parking lot is E1)**

Registration Instructions and Details

- Please reserve your attendance by sending E-mail to: Alex Grant, alexrrgrant@gmail.com
- Please indicate if you are registering as a *regular participant*, or as a *student*
- Payment will be due during morning registration/check-in as cash or as a check addressed to: *University of Washington*
- Registration fees: \$140 for regular attendees and \$20 for students

The Geotechnical Extreme Events Reconnaissance (GEER) Association, supported by the U.S. National Science Foundation, organizes the response of the geoen지니어ing professional community to earthquakes and other natural disasters.

The purpose of this workshop is to standardize reconnaissance practices among researchers so as maintain safety in the field, improve the overall quality of the data collection effort, and to best organize the findings for digital report and map delivery. The primary goals of the GEER team is to survey the damaging geotechnical aspects of the event, to document key sites to develop well-documented case histories, and to identify opportunities for further research. Reconnaissance has served an important role in earthquake engineering research and have led to significant advancements in our understanding of geoen지니어ing phenomena.

Workshop Presenters

Dr. Scott Anderson, USDOT
Professor Jonathan Bray - UC Berkeley
Professor Robert Kayen – UCLA/USGS
Professor Joseph Wartman, University of Washington



Workshop Agenda

Registration - 7:30 to 8:30 a.m.

1. Welcoming remarks – Summary of the days objectives and agenda (8:30 a.m.)
KAYEN

2. GEER - The Importance of Post Extreme-Event Reconnaissance. (8:40 a.m.) & Organizational elements, coordination, communication, and safety of reconnaissance teams. Geotechnical damage aspects of post-extreme events reconnaissance. BRAY

3. Lessons learned from past reconnaissance – (9:10 a.m.) KAYEN

4. Pre-reconnaissance – Use of remote sensing data - capturing site data—
9:40 ANDERSON

Morning Break (20 min) 10:10-10:30

5. Special Presentation and GEER Webinar- The Oso Landslide Reconnaissance —
10:30 WARTMAN and ANDERSON.

6. Reconnaissance in sites of Liquefaction-induced Ground Failure— 11:20 a.m.
BRAY

7. Modern Tools for Post-Event Reconnaissance: Manual for practices for merging GPS, iPhone/Android data, digital photography, and physical measurements. Use of tools for mapping /recording of damage for Post – Earthquake reconnaissance (11:40 a.m.). KAYEN

LUNCH 12:20-1:30 p.m. (Food court of the HUB)

8. Field Exercise: Methods for Recording ‘ Damage’ using GPS, tape measure, common laser distance and level devices, compass, etc. (1:30 p.m.)

9. Post-Field Desktop Exercise: Using your laptop/Tablet for integrated recordings of results & observations, 2:45 p.m. (use data collected in Field Exercise to record).

Afternoon Break (20 min.) 3:20-3:40

10. Discussion and demonstration of Innovative Tools (e.g., Ground-based LiDAR, SASW, DCPT, SWS, UAVs) KAYEN and ANDERSON 3:40 p.m.



11. Data Integration and reporting (GEER approach (Web, FTP, QR Reports on recent earthquakes) 4:10 p.m. BRAY

12. Closing remarks, Q & A. BRAY/KAYEN.

