

## **AEG Professional Forum**

# **Time to Face the Landslide Hazard Dilemma: Bridging Science, Policy, Public Safety, and Potential Loss**

Conference Dates: Thursday and Friday, February 26 and 27, 2015

Location: University of Washington, Seattle, 316 South Campus Center

Field Trip: Saturday, February 28, 2015 - Everett and Oso Landslides, WA

### **Keynote Speakers**

Keynote 1: The Oso, Washington Landslide Overview – Lessons Learned and Catalyst for this Conference; presented by Dr. Joe Wartman, PE, UW, co-leader of the GEER Oso team.

Keynote 2: What is Landslide Hazard? Inventory Maps, Uncertainty, and an Approach to Meeting Insurance Industry Needs; presented by Dr. Jeffrey Keaton, PG, Amec Foster Wheeler, co-leader of the GEER Oso team.

Keynote 3: Lessons from the National Earthquake Hazards Reduction Program can be applied to the National Landslide Hazards Program: A Rational Approach; presented by Mr. Richard Roth, Jr., Consulting Insurance Actuary.

Keynote 4: Catalyst for the 2<sup>nd</sup> Day Workshop – Saving Lives and Property, Is Science the Easy Part?; presented by Dr. Dave Montgomery, UW, member of the GEER Oso team and member of the WA governor's Oso Landslide Commission.

### **Program**

Day one focuses on current conditions and knowledge. Day two focuses on needed improvements and what we do next. Day three is a fieldtrip to visit landslides that exemplify the problems with our current systems. Posters will be displayed in the conference room and time is allotted for poster presentations. The poster author will be expected to be at their posters for the break times specified for posters to interact with attendees.

## **Day 1 – Program**

**7:00 – 8:00am Pre-Program Set-Up and Posters – Coffee, Tea and Baked Goods provided**

### **Morning Session: Landslide Mapping Programs and Impacts**

8:00 – 8:15 Introduction and Welcome: Kathy Troost, UW and Mark Molinari, AECOM

8:15 – 9:00 **Keynote 1:** The Oso, Washington Landslide Overview – Lessons Learned and Catalyst for this Conference - Dr. Joe Wartman, UW and GEER Oso Team

9:00 – 9:45 **Keynote 2:** What is Landslide Hazard? Inventory Maps, Uncertainty, and an Approach to Meeting Insurance Industry Needs - Dr. Jeffrey Keaton, Amec Foster Wheeler and GEER OSO team

### **9:45 – 10:15 Mid-Morning Break, Refreshments, and Posters**

10:15 – 10:45 Current Status of the U.S. Geological Survey Landslide Hazards Program – Dr. Jonathan Godt, USGS

10:45 – 11:15 Canadian Technical Landslide Guidelines and Best Practices for Landslide Professionals – Mr. Doug VanDine, VanDine Geological Engineering Ltd.

11:15 – 11:45 Landslides: the poor stepchild of geological hazards; what we can do and what other countries are doing to solve this situation – Dr. Scott Burns, Portland State University

11:45 – 12:15pm U.S. Army Corps of Engineers Reflections on Ground Failures and Particularly Landslides – Dr. Richard Olsen US COE Headquarters

### **12:15 – 1:15 Lunch (provided) and Posters**

### **1<sup>st</sup> Afternoon Session: Example State Programs and Implementation**

1:15 – 1:45 Landslide Hazard and Risk Reduction Process in Oregon – Mr. Bill Burns, DOGAMI

1:45 – 2:15 North Carolina Landslide Mapping – Public and Private Programs – Ms. Jennifer Bauer, Appalachian Landslide Consultants

2:15 – 2:45 Landslides in Kentucky: Inventory, Data Delivery, and Collaboration– Mr. Matt Crawford, Kentucky Geological Survey

2:45 – 3:15 Landslide inventory in Washington State: the past, present, and future – Mr. Stephen Slaughter, Washington DNR

**3:15 – 3:30 Mid-Afternoon Break – Beverages, Snacks, and Posters**

**2<sup>nd</sup> Afternoon Session: Landslide Risk, Prediction and Local Implementation**

3:30 – 4:00 Managing Slope Hazards Along Transportation Infrastructure – Mr. Tom Badger, WSDOT

4:00 – 4:30 Landslide Modeling and Forecasting—Recent Progress by the U.S. Geological Survey – Dr. Rex Baum, USGS

4:30 – 5:00 Landslide Hazard Mapping in King County – Mr. John Bethel, King County, WA

5:00 – 5:30 Landslide Management During Property Development in Los Angeles County – Mr. Charles Nestle, County of Los Angeles Department of Public Works, CA

**5:30-6:30 pm Posters/Ice Breaker – Hosted Drinks and Appetizers**

**Day 2 – Where do we go from here?**

**Morning Session: Regulations, Planning and Public Policy – Financial Impacts and How Do We Better Protect Public Safety and Reduce Financial Losses?**

8:00 – 8:15 am 2<sup>nd</sup> Day Introduction and Goals – Jeff Keaton and Mark Molinari

8:15 – 9:00 **Keynote 3:** Lessons from the National Earthquake Hazards Reduction Program can be applied to the National Landslide Hazards Program: A Rational Approach – Mr. Richard Roth, Jr., Consulting Insurance Actuary

9:00 – 9:30 Managing Recognized Hazards: Land Use Planning and Zoning, Strategies and Public Education/Notification – Mr. Mark Molinari, AECOM

9:30 – 10:00 What do planners do with hazard information? Bridging the science/policy gap – Mr. David Sherrard, AICP, Planning Consultant

**10:00-10:30 Mid-Morning Break, Refreshments, and Posters**

10:30 – 11:00 How Emergency Management Can Achieve a "Landslide Victory" Related to Community Preparedness and Public Warning – Mr. Mike Chard, Boulder CO Emergency Management Director

- 11:00 – 11:30 How Can Congress Help? The Potential for Comprehensive Landslide Policy – Ms. Abigail Seadler, American Geosciences Institute (AGI)
- 11:30 - 12:00 pm **Posters**
- 12:00– 1:15pm Lunch (provided) and Posters**
- 1:15 – 1:45 Summary of Key Points from NRC’s Board on Earth Sciences and Resources Special Workshop: “Landslides and Landslide Risk: Needs for the Next Decade” – Dr. Joe Wartman, PE, UW
- 1:45 – 2:30 **Keynote 4:** Saving Lives and Property, Is Science the Easy Part? – Dr. David Montgomery, UW and Washington Governor’s Commission on Oso Landslide
- 2:30 – 3:00 Workshop Introduction
- 3:00 – 3:30 Mid-Afternoon Break, Beverages, Snacks, and Posters**
- 3:30 – 5:00 Workshop – Where Do We Go From Here? (conveners Kathy Troost and Jennifer Bauer)
- 5:00- 5:30 pm Workshop Recap and Closing**