

Seismic Instrumentation Technology Symposium

Albuquerque, New Mexico

June 16-17, 2011



Theme: To explore emerging instrumentation technologies that provide solutions for key technical challenges in observational seismology. Symposium will highlight operator perspectives on these challenges as well as emerging technologies in the thematic areas of communications, power, and timing. The symposium will focus on creating and facilitating a dialog between academia, industry, and others.

Thursday, June 16, 2011

7:00 a.m. Breakfast (**Salon F**)

8:00 a.m. Welcome (**Salon E**)

Bob Nigbor, University of California - Los Angeles
John Collins, Woods Hole Oceanographic Institution

Session #1 - Operator Perspective (25 min talks, plus questions)

8:15 a.m. Observatory Seismology

Lind Gee, U.S. Geological Survey
Bob Hutt, U.S. Geological Survey

8:45 a.m. Large-scale, Temporary Networks

Bob Busby, IRIS Consortium

9:15 a.m. Engineering Seismology

Jameson Steidl, University of California - Santa Barbara

9:45 a.m. Portable Broadband Seismology - PI Perspective

Matt Fouch, Arizona State University

10:15 a.m. Break - **Lobby**

10:30 a.m. Portable Broadband Seismology - PIC Perspective

Tim Parker, PASSCAL Instrument Center

11:00 a.m. Timing

Frank Vernon, University of California - San Diego

11:30 a.m. Challenges of Operating Modern Instrumentation in a Regional Network Focusing on Challenging Environments.

Roger Hansen, University of Alaska

12:00 p.m. Lunch (**Salon F**)

1:00 p.m. Active Source

Randy Keller, University of Oklahoma

1:30 p.m. Defense Applications I

Gunnar Radel, Department of Defense

- 2:00 p.m.** Rapid Response – Ground Motion
Jameson Steidl, University of California - Santa Barbara
- 2:15 p.m.** Rapid Response – Building
Bob Nigbor, University of California - Los Angeles
- 2:30 p.m.** BREAK (**Lobby**)
- 3:00 p.m.** Rapid Response Seismic
George Slad, PASSCAL Instrument Center (On behalf of Anne Meltzer, Lehigh University)
- 3:30 p.m.** Early Warning
Tom Heaton, California Institute of Technology
- 4:00 p.m.** Wrap-Up for Session #1
- 4:30 p.m.** **Session #2 Vendor Introductions (Salon E)**
(5 min. each, product line, latest innovations, looking forward, invitation to discussion at poster)
- 6:00 p.m.** – **Posters with cash bar and hors d'oeuvres** (starts after vendor talks) – **Salons A-D**

Friday, June 17, 2011

- 7:00 a.m.** Breakfast (**Salon F**)
- 8:00 a.m.** - **Session #3 - Emerging Technologies Introduction (Salon E)**
John Collins, Woods Hole Oceanographic Institution
Bob Nigbor, University of California - Los Angeles
- 8:15 a.m.** Communications - Leveraging Existing Infrastructures (RUDICS Iridium SBD)
Derek Inglis, XEOS Technologies Inc.
- 8:45 a.m.** Wireless LAN/Mesh Networking for Seismic Arrays in Buildings
Bob Nigbor, University of California - Los Angeles
- 9:15 a.m.** Satellite Communications - Deploying Application-Specific Infrastructure
John Beattie, Wild Blue Communications
- 9:45 a.m.** Break (**Lobby**)
- 10:15 a.m.** Power/Batteries - Lithium Batteries and Controllers
Alex MeVay, Genasun LLC
- 10:45 a.m.** Oil Industry Seismic Technology
Scott Williams, Guralp Systems Ltd
- 11:15 a.m.** Oceans & Atomic Clocks
John Collins, Woods Hole Oceanographic Institution
- 12:15 p.m.** Adjourn