

# SEISMIC INSTRUMENTATION TECHNOLOGY SYMPOSIUM

Palm Desert, CA • November 10-11, 2009

## Spectral Extremes – Pushing the Limits of Sensing Ground Motion

(40 minute talks, 5 minutes for questions)

### TUESDAY, NOVEMBER 10

**7:00-8:00 a.m.** Continental Breakfast – *Mediterranean Lawn*

**8:00-8:15 a.m.** Welcome and Introduction – Bob Nigbor (UCLA) and John Collins (WHOI) – *Mediterranean I-II*

### SESSION I – Low Frequency/Long Period – *Mediterranean I-II*

**8:15-9:00 a.m.** Long Period Seismology – Miaki Ishii (Harvard)

**9:00-9:45 a.m.** Low Frequency/Long Period Instrumentation Developments – Jon Berger (UCSD)

**9:45-10:30 a.m.** Low Frequency Rotational Seismology – Heiner Igel (Ludwig - Maximilians University)

**10:30-10:45 a.m.** BREAK – *Mediterranean Foyer*

**10:45-11:30 a.m.** Site and Installation Effects on the Quality of Low Frequency Seismic Data – Meredith Nettles (Columbia)

**11:30 a.m.-12:15 p.m.** Barometric Pressure Measurements and Corrections for Low Frequency Seismology – Joe Stein (Quanterra)

**12:15-1:00 p.m.** LUNCH – *Mediterranean Lawn*

### SESSION II – High Frequency/Short Period – *Mediterranean I-II*

**1:00-1:45 p.m.** Insights into Earthquake Source Physics from High-Frequency Seismology – Yehuda Ben-Zion (USC)

**1:45-2:30 p.m.** Near-Source Seismic Measurements – Malcolm Johnston (USGS)

**2:30-3:15 p.m.** Seismic Instrumentation and Monitoring Needs for US Nuclear Plants – Annie Kammerer (USNRC)

**3:15-3:30 p.m.** BREAK

**3:30-4:15 p.m.** Engineering Needs for High Frequencies – Derek Skolnik (UCLA)

**4:15-5:00 p.m.** Technologies for High Frequency Rotational Measurements – John Evans (USGS)/Dennis Smith (ATA)

**POSTERS** – Posters may be viewed from 11:30 a.m. Tuesday – 1:00 p.m. Wednesday.

**5:00-7:00 p.m.** Poster Session – Heavy hors d'oeuvres and refreshments served – *Mediterranean III-IV*



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## WEDNESDAY, NOVEMBER 11

**7:00-8:00 a.m.** Continental Breakfast – *Mediterranean Lawn*

### **SESSION III – Outer Limits** – *Mediterranean I-II*

**8:00-8:15 a.m.** Welcome and Introduction – Bob Nigbor (UCLA) and John Collins (WHOI)

**8:15-9:00 a.m.** Structural Monitoring (man-made) – Bob Nigbor (UCLA)

**9:00-9:45 a.m.** Measurements Using Atom Free Fall – Mark Kasevich (Stanford)

**9:45-10:30 a.m.** DOD Needs for Seismic and Acoustic Technologies – Joe Durek (DARPA)

**10:30-10:45 a.m.** BREAK – *Mediterranean Foyer*

**10:45-11:30 a.m.** Piezoceramic Sensors and Infrasound – Carrick Talmadge (U. of Miss.)

**11:30 a.m.-12:15 p.m.** MEMS Applications in Seismology – John Merchant (Sandia)

**12:15 p.m.** ADJOURN – Bob Nigbor (UCLA) and John Collins (WHOI)

