Session 1. Monday Morning:

8:30-8:45  Continental Breakfast

9:00-9:15 AM Opening Remarks
Workshop Organizer, Mourad Zeghal
Dean of Science, David Spooner
IPRPI Director, Joyce McLaughlin

9:15-10:00  Dr. Carey Rappaport (Northeastern University)
Title: Reconstructing tunnel positions under rough surfaces with underground focused synthetic aperture radar

10:00-10:15  Discussion and Break

10:15-11:00  Dr. Dominic Assimaki (Georgia Institute of Technology)
Title: A wavelet-based seismogram inversion algorithm for the in-situ characterization of nonlinear soil behavior

11:00-11:15  Discussion and Break

11:15-12:00  Dr. Bojan Guzina (University of Minnesota)
Title: Some recent issues in non-iterative obstacle reconstruction by mechanical waves

12:00-1:30  Conference Lunch

Session 2. Monday afternoon:

1:30-2:15  Dr. Christine Shoemaker (Cornell University)
Title: Optimization and Response Surface Approximation for Identification and Uncertainty Analysis of Computationally Expensive Multimodal Simulation Models of Environmental Systems

2:15-2:30  Discussion and Break

2:30-3:15  Dr. Hoshin Gupta (The University of Arizona)
Title: Improving Model Identification: Reconciling Theory with Observations & The Problem of Sufficient Statistics

3:15-3:30  Discussion and Break

3:30-4:15  Dr. Mary C. Hill (U.S. Geological Survey)
Title: Sensitivity analysis, calibration, and testing of models using local methods, error-based weighting and one objective function

4:15  Poster Session

6:30  Conference Dinner for Invited Speakers, Hilton Garden Inn
Session 3. Tuesday Morning:

8:30-8:45  Continental Breakfast

9:00 -9:45  Dr. Stefan Finsterle (Lawrence Berkeley National Laboratory (LBNL))
Title: Joint Inversion in Hydrogeology: Standing the Test of Practical Application

9:45-10:15  Discussion and Break

10:15-11:00  Dr. Youseff Hashash (University of Illinois at Urbana-Champaign)
Title: Evolutionary based inverse analysis for geotechnical applications

11:00-11:15  Discussion and Break

11:15-12:00  Dr. Rowena Lohman (Cornell University)
Title: Confidence estimates on inferred earthquake source parameters: Applications to Nuclear Test Ban Treaty verification and seismic hazard assessment

12:00-1:00  Conference Lunch

Session 4. Tuesday Afternoon

1:00-1:45  Dr. Ahmed Elgamal (University of California, San Diego)
Title: System Identification: Historical Perspective and New Horizons

1:45-2:05  Discussion and Break

2:05-2:50  Dr. Loukas Kallivokas (The University of Texas at Austin)
Title: The inverse medium problem in PML-truncated domains