

- View from Practice: Adequacy of Current Design Models
 - How are site effects addressed in engineering practice?
 - When are generic versus site-specific soil properties used?
 - What models are currently being used?
 - What are the limitations of current models?
- Adaptations Needed for Use in Performance-Based Framework
 - What are the known site response biases arising from material models?
 - Is uncertainty in the models adequately addressed?
 - Can uncertainty be reduced through more lab testing? through a new model form?
 - How can uniform hazard probabilities be maintained in site response analysis?
- Understanding and Addressing Soil Disturbance Issues
 - What evidence is available that indicates soil disturbance is an issue?
 - How are soil disturbance issues currently being addressed in practice?
 - What is the impact of soil disturbance on materials models and site response analysis?
 - What tests could be performed to address the soil disturbance issues?
- Issues for “Special Soils” such as gravels, silt, peat, and improved ground
 - Are adequate models available for these special soils?
 - What are the needs in practice for these special soils?
 - Are conventional or specialized equipment needed to study these special soils?

Afternoon breakout sessions

- Desired Model Form(s) for New Models
 - What parameters are essential for models to meet the needs of practice?
 - What parameters are needed to address emerging needs of advanced models?
 - Can self-consistent basic and advanced models be developed?
 - What statistical tools and considerations should be addressed?
- Issues for Merging Existing Worldwide Data Sets
 - What worldwide data sets are available for model development?
 - Are different testing techniques and methods used in other countries?
 - What are the differences between the US and international data sets?
- Testing Needs for Applied and Advanced Models
 - What testing data are needed to constrain parameters for advanced models?
 - What additional data are needed to define uncertainty in soil models?
 - What are the remaining gaps that exist in current models?
- Incorporating Nonlinear Soil Data into NEES
 - How can nonlinear soil data be best integrated with NEES?
 - What metadata are needed to archive soil testing data in the NEES data repository?
 - How can nonlinear soil data and models be used in NEES numerical simulation?
 - What NEES experiments would best assist in soil model development?