

## Final Program

### 8:30 a.m. Welcome Remarks

**C. Vipulanandan (Vipu)**, Professor, Department of Civil and Environmental Engineering & Director of CIGMAT and THC-IT, University of Houston

### Session I: (8:40 a.m. to 9:50 a.m.) General Session

**Moderator: C. Vipulanandan, Ph.D., P.E.**, Professor of Civil Engineering, University of Houston, Houston, Texas

**Daniel W. Krueger**, "Review of City of Houston Projects and Plans and Technical Needs," Director, Public Works and Engineering Department, City of Houston, Houston, Texas, Keynote Speaker;

**Michael Alford**, "TxDOT Projects and Plans," District Engineer - Houston, TxDOT, Houston, Texas, Keynote Speaker;

**Mike Loudin**, "Energy in the 21<sup>st</sup> Century," Geoscience Manager, ExxonMobile Campus Project, Houston, Texas, Keynote Speaker.

### 9:50 – 10:15 a.m. Coffee Break (Exhibit Area)

### Session II: (10:15 a.m. to 12:00 noon)

#### Panel 1: Hydraulic Fracturing, Water and Wastewater Issues

**Moderator: Rafael Ortega, P.E.** Lockwood, Andrew and Newnam, Houston, Texas.  
Panelist (25 min. presentations)

**"Hydraulic Fracturing and Related Challenges," Qi Qu**, Director Research, Baker Hughes Services, Houston, Texas

**"Condition Assessment: A Review of the Past 10 Years," Rafael Ortega**, Vice-President, Lockwood, Andrew and Newnam, Houston, Texas.

**Jason Iken**, "Remote Monitoring of Waster Collection Systems for COH," Senior Assistant Director for Wastewater Operations, City of Houston, Houston, Texas.

#### **Panel Discussion: Challenges Related to Hydraulic Fracturing, Water and Wastewater Issues**

#### Panel 2: Flooding, Maintenance and Geotechnical Issues

**Moderator: Stanley Yin, P.E.**, TxDOT, Houston, Texas.  
Panelist (25 min. presentations)

**Mike Talbott**, "Projects and Plans for Harris County Flood Control District," Director, Harris County Flood Control District, Houston, Texas.

**Michael Hogan**, “Maintenance Challenges in Storm Drains and Streets,” Assistant Director for Storm Drainage Maintenance, City of Houston, Houston, Texas.

**Evaluation of Soil Properties to Predict the Offshore Foundation Behavior, David Menzies**, Senior Project Manager, Fugro-McClelland Marine Geosciences, Houston, Tx.

**Panel Discussion: Challenges in Maintaining & Sustaining Civil Infrastructure Facilities**

## **Lunch Break, Exhibition & Research Posters**

**Posters** on research at University of Houston. Companies participate in the **Exhibition**. Vote for the Research Posters.

**Session III: (1:00 p.m. to 2:30 p.m.)**

### **Panel 3: Tunneling and Drilling Issues**

**Moderator: David Peters, P.E.**, Senior Project Manager, Camp, Dresser & McKee Inc., Oklahoma City, Oklahoma.

Panelist (20-25 min. presentations)

“**Advances in Microtunneling,**”, **David Ellett**, Project Manager, BRH Garver, Houston, Texas

“**Challenges in Directional Drilling and Recycling Drilling Muds,**” **Grady Bell**, Vice President, Laney Directional Drilling Company, Humble, Texas.

“**Combined Technologies for Tunneling in Urban Areas,** **Gerhard Lang**, Manager, Utility Tunneling, Herrenknecht, Germany.

**Panel Discussion: Challenges and Issues with Underground Construction.**

### **Panel 4: Geotechnical Issues: Grouted Micropiles and Sulfate Soils**

**Moderator: C. Vipulanandan, P.E.**, University of Houston, Houston, Texas.

#### **Eighth Mike O’Neill Lecture**

**Grouted Micropiles for Remediation, Professor John D. Nelson**, Colorado State University and CEO Engineering Analytics , Fort Collins, Colorado.

**Behavior of Treated Sulfate Soils, Professor C. Vipulanandan**, University of Houston, Houston, Texas

**Panel Discussion: Geotechnical Engineering Issues Related to Unsaturated Soils.**

**RECEPTION: (2:30 - 3:30 p.m.)**

Reception will be held in the Exhibit area (food and drinks). In addition to conference participants, number of city, county and industrial leaders will be invited to participate. This is a good opportunity to network and number of door prizes is waiting for you.

**Professional Development Hours (PDH)**

Earn up to 5 hours of PDH by attending the conference. Certificates will be emailed to you.