

**Infrastructure, Energy, Geotechnical, Flooding and Sustainability  
Issues Related to Houston & Other Major Cities  
Final Program –CIGMAT 2019 (March 1, 2019)**

**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

**Larry Blackburn and Varuna Singh,** "TxDOT Projects and Plans," Director of Design and Alternative Delivery Program Director– TxDOT, Houston, Texas, Keynote Speaker;  
**Michael Ereti,** "Review of City of Houston Projects, Plans and Technical Needs," Director Capital Projects –Houston Public Works, City of Houston, Houston, Texas, Keynote Speaker;  
**Liana Alvarez,** "Energy Outlook for the Future", Advisor for Sustainable Procurement, ExxonMobil, Spring, 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: Flooding and Construction Issues**

**Moderator: Rafael Ortega, P.E.** Aurora Technical Services, Houston, Texas.  
Panelist (25 min. presentations)

**Ataul Hannan,** "MAAPnext – A Next Step to Evolving Floodplain Mapping," Planning Division Director, Harris County Flood Control District, Houston, Texas.  
**Ivan Langford,** "Planning Efforts to Meet the Industrial Water Demands", General Manager, Gulf Coast Water Authority, Houston, Texas.  
**“Challenges in Major Pipelines Construction” Wayne Ahrens,** Director Dannenbaum Engineering, Houston, Texas.

**Panel Discussion: Challenges Related to Flooding and Construction Issues**

**Panel 2: Transportation Projects and Issues**

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

**John Tyler,** "HCTRA Projects and Plans," Deputy Director – Harris County Toll Road Authority, Houston, Texas.  
**Roberto Trevino,** "METRO Projects and Plans", Executive Vice President of Planning, Engineering and Construction-METRO, Houston, Texas.  
**“Texas Central Update and High Speed Rail Design Issues”, Steve Clark,** Principal, ARUP, Houston, Texas.

**Panel Discussion: Challenges Related Transportation Issues**

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

**Posters** on research done 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: Water and Wastewater Issues**

**Moderator: Mackrena Ramos, P.E.**, Senior Associate, Lockwood, Andrews and Newnam Inc., Houston, Texas.

Panelist (20-25 min. presentations)

**Jeff Haby**, “SAWS SSO Consent Decree: The Halfway Point,” Vice President, San Antonio Water System (SAWS), San Antonio, Texas

“**Conroe Central WWTP**” **Bill Schlafer**, Lockwood, Andrews and Newnam Inc., Houston, Texas.

“**Flood Tunnel- A Solution to Houston’s Stormwater Conveyance Problem**” **Brian Gettinger**, Project Manager-Tunneling Service Leader, Freese And Nichols, Houston, Texas

**Panel Discussion: Challenges Related to Water Issues.**

#### **Panel 4: Deep Foundations and Smart Materials.**

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

##### **Fourteenth Mike O’Neill Lecture**

“**A Refinery Expansion Project with Piles Installed in Settling Soil – A Case Study**”, **Mauricio Ochoa**, Principal Engineer, Tolunay-Wong Engineers, Inc., Houston, Texas.

“**Smart Cement for Concrete and Repairing Grout Applications with Real-Time Monitoring and Characterized Using Vipulanandan Models**”, **Professor C. Vipulanandan**, University of Houston, Houston, Texas.

**Panel Discussion: Issues Related to Deep Foundations and Smart Materials.**

### **RECEPTION: (2:30 - 3:00 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.