

**Infrastructure, Energy, Geotechnical, Flooding and Sustainability
Issues Related to Houston & Other Major Cities
Final Program –CIGMAT 2023 (March 3, 2023)**

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

Varuna Singh, "TxDOT Projects and Plans," Deputy Director of Houston District–TxDOT, Houston, Texas, Keynote Speaker;

Michael Ereti, "Houston Public Work CIP Update," Director Capital Projects –Houston Public Works, City of Houston, Houston, Texas, Keynote Speaker;

Sid Mebarkia “Infrastructure Issues Related to Subsea Pipelines”, Chevron Fellows, Chevron, 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: Flooding, Construction and Subsidence Issues

Moderator: Rafael Ortega, P.E., Aurora Technical Services, Houston, Texas.

Panelist (25 min. presentations)

Ataul Hannan, “Communication Effort for MAAPnext,” Director Planning Division, Harris County Flood Control District, Houston, Texas.

Eric Garza, L. Nguyen and Paul Walker, “Northeast Water Purification Plant (NEWPP) facilities and On-going Expansion Work,” City of Houston and Carollo Engineering Houston, Texas.

Michael J. Turco, "Review and Update on the Subsidence Issues," General Manager, Harris/Galveston Subsidence District, Friendswood, Texas.

Panel Discussion: Challenges Related to Flooding, Construction and Subsidence Issues

Panel 2: Transportation Projects and Helical Piles

Moderator: Daniel Wong, P.E., Tolunay-Wong Engineers, Inc., Houston, Texas.

Panelist (25 min. presentations)

Brain Alcott, “HCTRA Projects and Plans,” Assistant Director – Harris County Toll Road Authority, Houston, Texas.

Shri Reddy, “METRO Projects and Plans”, Executive Vice President for Planning Engineering and Construction-METRO, Houston, Texas.

“Helical Piles: Overview of Design Theory and Applications”, Moncef Souissi, Senior Geotechnical Engineer, Cantsink, Winder, Georgia.

Panel Discussion: Challenges Related Transportation and Helical Piles

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., Vice President, Lockwood, Andrews and Newnam Inc., Houston, Texas.

Panelist (25 min. presentations)

Jeffrey Haby, “San Antonio Path to Water Resiliency,” Vice President –Production and Treatment,” San Antonio Water System (SAWS), San Antonio, Texas

James Golab, “Alternative Water Supplies,” Conservation and Innovative Water Technologies, Texas Water Development Board, Austin, Texas

“High Build Solid Epoxy Case Studies and New Applications”, **Jan B. Conant and L. Secrest**, Manufacturer’s Representative, Warren Environmental, Frisco, Texas

Panel Discussion: Challenges Related to Water and Wastewater Issues.

Panel 4: Infrastructures and Smart Materials.

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

Seventeenth Mike O’Neill Lecture

Eliza Paul, “Past Experiences and Management of Highway Transportation Projects”, Director- TxDOT Houston District, Houston, Texas.

“Smart Foam Cement Behavior Characterization Using Artificial Neural Network (ANN) and Vipulanandan Models”,

Professor C. Vipulanandan, University of Houston, Houston, Texas.

Panel Discussion: Issues Related to Infrastructures 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. Certificates will be emailed to you.