

**Infrastructure, Energy, Geotechnical, Flooding and Sustainability
Issues Related to Houston & Other Major Cities
Final Program –CIGMAT 2024 (March 1, 2024)**

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

Brenda Bustillos, "TxDOT Projects and Plans," Project Manager ConnectSmart Applications, 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;

Brent Seifert, "Delivering Oil and gas Offshore Projects through the Energy Transition", Host Engineering Manager, Shell International Exploration and Production Inc., 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 Maintenance Issues

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

Panelist (25 min. presentations)

Jonathan Holley, "Nature-Based Solutions to Flood Control in Harris County," Environmental Services, Harris County Flood Control District, Houston, Texas.

Kathlie Jeng-Bulloch, "CIP Program and lessons Learn, Huntsville Texas," Director of Engineering Department, City of Huntsville, Huntsville, Texas.

Nina Joshi, "Resilient Houston – Rehabilitation Projects and Green Stormwater Infrastructure," Supervising Engineer – Transportation and Drainage Operations, City of Houston, Houston, Texas.

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

Panel 2: Infrastructures and Transportation Projects

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

Panelist (25 min. presentations)

Andy Meyers, "Fort Bend's Critical Infrastructure: Energy, Industry, Mobility, and Safety," Commissioner – Fort Bend Count, Sugar Land, Texas.

Leilany Thielen, "HCTRA Projects and Plans," Deputy 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.

Panel Discussion: Challenges Related Infrastructures and Transportation

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 (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, “Current and Future Alternative Water Supplies in Texas,” Manager- Innovative Water Technologies, Texas Water Development Board, Austin, Texas

“**Epoxy Rehabilitations of WW Lift Stations and Drinking Water Pipes in the Houston Area**”, **Jan B. Conant**, Manufacturer’s Representative, Warren Environmental, Frisco, Texas

Panel Discussion: Challenges Related to Water and Wastewater Issues.

Panel 4: Deep Foundations and Smart Materials.

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

Eighteenth Mike O’Neill Lecture

“**Lessons Learned from Mike O’Neill and its Impact on Current Practice**”, **Tracy Brettmann**, Executive Vice President, A.H. Beck Engineering, Houston, Texas.

“**Characterizing Piezoresistive Smart Cement Modified with Silicon Dioxide Nanoparticles Using Vipulanandan Models for Multiple Applications**”,

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.