

**Infrastructure, Energy, Geotechnical, Flooding and Sustainability
Issues Related to Houston & Other Major Cities
Final Program – 30th Annual Conference CIGMAT 2025 (March 7, 2025)**

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

Thomas G. Allbritton, "TxDOT Projects and Plans," District Engineer, Houston District– TxDOT, Houston, Texas, Keynote Speaker;

Randy Macchi, "Houston Public Works Plans and Projects," Director –Houston Public Works, City of Houston, Houston, Texas, Keynote Speaker;

Sid Mebarkia, "Trends in the Production and Distribution of Oil and Gas", 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, New Constructions and Maintenance Issues

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

Panelist (25 min. presentations)

Ataul Hannan, "Flood Control Plans in Harris County," Director of Planning Division, Harris County Flood Control District, Houston, Texas.

"North Canal: A New Approach to an Old Idea, Reducing Flooding along Buffalo and White Oak Bayous," **Jeff Mitchell**, HDR Inc. and **Kevin Hammond**, Project Manager, City of Houston, Houston, Texas.

Ravi Kaleyatodi, "Houston's Northeast and East Water Treatment Plant Projects," Senior Assistant Director- City of Houston, Houston, Texas.

Panel Discussion: Challenges Related to Flooding, New 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)

Joe Zimmerman, "Sugar Land Projects and Plans including Transportation," Mayor – Sugar Land, Sugar Land, Texas.

Ram Mothe, "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: Venus Price, P.E., Water resources Leader, Lockwood, Andrews and Newnam Inc., Houston, Texas.

Panelist (25 min. presentations)

Aaron Schindewolf, “SJRA Water and Wastewater Systems Improvements and Updates,” Project Manager – San Jacinto River Authority (SJRA), Conroe, Texas
Willie Chastain, “Aquifer Storage and Recovery in Texas: Case Study for the San Jacinto River Authority,” Geoscientist- Innovative Water Technologies, Texas Water Development Board, Austin, Texas
“Epoxy Rehabilitations and Protective Coatings of Lift Stations”, **Jan B. Conant**, Coating Specialist - 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.

Nineteenth Mike O’Neill Lecture

Grady Prestage, “**Fort Bend County Infrastructures and Developments**”, Fort Bend County Precinct 2 Commissioner Precinct 2, Rosenberg, Texas.

“Smart Cement Modified with A Polymer Control and Detect Fluid Loss and Gas Leak Using Vipulanandan Curing, Fluid Loss and Fluid Flow 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.