

**Infrastructure, Energy, Geotechnical, Flooding and Sustainability
Issues Related to Houston & Other Major Cities
Final Program –CIGMAT 2022 (March 4, 2022)**

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, “The Influences of Oil and Gas and Related Pipelines”, Senior Principal Engineer-Subsea Pipelines, 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 and Construction Issues

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

Panelist (25 min. presentations)

Ataul Hannan, "Planning to Achieve Resilience in Harris County," Director Planning Division, Harris County Flood Control District, Houston, Texas.

Jun Chang, “Projects and Plans for the Regional Water Authority, General Manager, North Harris County Regional Water Authority, Houston, Texas.

David Miller, "Review of Coastal Water Authority Projects, Plans and Technical Needs," Major Project Manager, Coastal Water Authority, Houston, Texas.

Panel Discussion: Challenges Related to Flooding and Construction Issues

Panel 2: Transportation Projects and Power Issues

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.

“Civil Structural Solutions for Power Shortage”, **Brian Raine**, Principal ARUP, Houston, Texas.

Panel Discussion: Challenges Related Transportation and Power 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)

Christopher J. Jackson, “The Numbers Do Not Lie –Reduced I/I,” Project Engineer – Master Planning,” San Antonio Water System (SAWS), San Antonio, Texas

Veronica Villalobos-Pogue, “Flood Mitigation, Challenges and Future,” Flood Science & Community Assistance Office, Texas Water Development Board, Austin, Texas

“High Build Solid Epoxy Case Studies and New Applications”, **Jan B. Conant**, 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.

Sixteenth Mike O’Neill Lecture

Tom Ramsey, “Infrastructure Issues and Public Policy”, Harris County Precinct 3 Commissioner, Houston, Texas.

“Smart Cement Integrated with Real-Time Monitoring for Construction and Repairing of Various New and In-service Infrastructures”,

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.