

**Infrastructure, Energy, Geotechnical, Flooding and Sustainability
Issues Related to Houston & Other Major Cities
Final Program –CIGMAT 2020 (March 6, 2020)**

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

Eliza Paul, "TxDOT Projects and Plans," Director of Houston District– 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;

Cody Moffitt, "The Effect of Outside Influences on the Oil and Gas", Marketing Manger-SubseaDesign AS, 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, "Use of Advance Technology for better Modeling and Risk Mapping," Director Planning Division, Harris County Flood Control District, Houston, Texas.

Kevin Tran, Michael Salinas and Michael Liga, "Tunneling the Largest Potable Water Line for the City of Houston," City of Houston and Lockwood Andrew and Newnam, Houston, Texas.

Shashi Kumar, "Review of Missouri City Projects, Plans and Technical Needs," Public Works Director, Missouri City, Houston, Texas.

Panel Discussion: Challenges Related to Flooding and Construction Issues

Panel 2: Transportation Projects and Issues

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

Panelist (25 min. presentations)

John Tyler, "HCTRA Projects and Plans," Deputy Director – Harris County Toll Road Authority, Houston, Texas.

Bridgette Towns, "METRO Projects and Plans", Vice President for Project Management and Engineering-METRO, Houston, Texas.

Zhanfei "Tom" Fan, UHPC for Steel Bridge Repair, Texas Department of Transportation, Houston District Bridge Design, 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.

12:35 to 12:55 p.m. Waller County Judge, Trey Duhon, "Updates on Issues Related to Infrastructures" Waller, Texas.

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)

Cristina Brantley, "SAWS SSO Consent Decree: The Halfway Point," Manager-Engineering, San Antonio Water System (SAWS), San Antonio, Texas

Erika Mancha, "Update on Innovative Water Technologies programs," Manager, Innovative Water Technology, Texas Water Development Board, Austin, Texas

Houston's Sewer Overflow Issues" Eric J. Dupre, Technical Director, Super Cover-Sanitary Sewer Overflow, Houston, Texas

Panel Discussion: Challenges Related to Water and Wastewater Issues.

Panel 4: Engineering Ethics and Smart Materials.

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

Fifteenth Mike O'Neill Lecture

"Civil Engineering, Ethics and Public Policy", **Daniel Wong**, Director Texas Board of Professional Engineers, CEO-Tolunay-Wong Engineers, Inc., Houston, Texas.

"Smart Cement Characterization Based on Laboratory and Field Test Data Using Artificial Intelligent (AI) Models with Vipulanandan Models for Application in Cemented Wells and Micropiles", **Professor C. Vipulanandan**, University of Houston, Houston, Texas.

Panel Discussion: Issues Related to Engineering Ethics and Smart Material Modeling.

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.