

**INFRASTRUCTURES, ENERGY,
GEOTECHNICAL, FLOODING
AND SUSTAINABILITY
ISSUES RELATED TO
HOUSTON &
OTHER MAJOR CITIES**

**CIGMAT - 2023
28th Annual Conference**



Conference and Exhibition
Sponsored
by
**Center for Innovative Grouting
Materials and Technology
&
Department of Civil and
Environmental Engineering**

March 3, 2023

University Hilton
University of Houston
Houston, Texas 77204

Conference Registration

The Conference is presented in a one day concentrated format to update the contractors and consultants who play an important role in the development of major cities including Houston. Well known and influential speakers will provide valuable information to the conference attendees. Complete and return the registration form with the registration fee before February 23, 2023 for an advanced registration discount. Registration fee includes admission, lunch, coffee breaks, and free hotel parking. Registration and attendance will be limited to the first 250 applicants.

For Hotel Reservations call (832) 531-6300 or 866-327-1161.

Top Reasons To Attend:

- (1) Be informed about the latest opportunities and developments in number of major cities.
- (2) Network with city and county planners, engineers, contractors, consultants, researchers, educators, scientists, students and exhibitors.
- (3) Presentations on infrastructure maintenance, energy, geotechnical, flooding, transportation, water, wastewater and sustainability issues and new technologies that could influence your operations.
- (4) View research posters from University of Houston and attend the reception.
- (5) Houston is easily accessible from anywhere in the U.S.

For more information on the conference or to reserve exhibition spaces call Dr. **Vipu** at (713) 743-4278.

REGISTRATION

Advanced Registration (by 2/23/2023) \$160.00
At-Door Registration \$175.00
Student Registration* \$ 75.00

Exhibitor^ \$400.00
(A reception is planned in the exhibit area)

^One person has free registration
*Current I.D. and School Registration;

Please make check payable to CIGMAT/UH
and mail it to:

Conference Registration
CIGMAT/Dept. C&EE/UH
4226 M.L. King Blvd.
Houston, TX 77204-4003
(Attn: Dr. C. Vipulanandan (Vipu))

Name _____

Nick Name _____

Company _____

Address _____

City _____ State/Zip _____

Phone _____

Fax _____

Email _____

Contact Person _____

For more information

Phone: (713) 743-4278; Fax: (713) 743-4260

Email: cvipulanandan@uh.edu

About the Conference

A one day Conference and Exhibition is being organized by the Center for Innovative Grouting Materials and Technology (CIGMAT) and the Department of Civil and Environmental Engineering on "Infrastructures, Energy, Geotechnical, Flooding and Sustainability Issues in Houston & Other Major Cities" at the University of Houston on March 3, 2023. The presentations will include current projects and proposed projects and energy needs for years 2023-2024 in the Greater Houston area and other major cities. Special feature of this conference is the four panel discussions on critical issues facing the construction, maintenance and sustainability of various civil infrastructures in the urban environment. Also energy production and related issues will be discussed. After the technical sessions, a reception will be held starting at 2:30 p.m. with invited city, county and industry leaders in the exhibit area to facilitate networking. The conference fee also includes lunch, coffee breaks, reception and parking. Earn 5 PDH by attending the entire conference.

List of Distinguished Speakers

Session I: (8:30 a.m. to 9:50 a.m.)

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 and Deryck Williams, "Infrastructure Issues Related to Oil Pipelines and Cementing", Chevron Fellows, Chevron, Houston, Texas, Keynote Speakers.

Session II: (10:15 a.m. to 12:00 noon)

Panel 1: Flooding, Construction and Subsidence

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

Panelist (also includes presentations)

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

Eric Garza, "Northeast Water Purification Plant (NEWPP) facilities and On-going Expansion Work," Assistant Director, City of Houston, Houston, Texas.

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

Panel 2: Transportation Projects and Helical Piles

Moderator: Daniel Wong, Tolunay-Wong Engineers.
Panelist (also includes 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.

Lunch Break, Exhibition & Research Posters

Posters on Research at the University of Houston.
Companies participate in the Exhibition.

Session III: (1:00 p.m. to 2:30 p.m.)

Panel 3 : Water and Wastewater Issues

Moderator: Mackrena Ramos, P.E., Lockwood, Andrews and Newnam Inc., Houston, Texas.
Panelist (also includes 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**, Manufacturer's Representative, Warren Environmental, Frisco, Texas

Panel 4: Infrastructures and Smart Materials.

Moderator: C. Vipulanandan, 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.

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 several of door prizes are waiting for you.

Professional Development Hours (PDH)

Earn up to 5 hours of PDH by attending the conference. Certificates will be issued after the conference.

