

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

**CIGMAT - 2015  
20<sup>th</sup> Annual Conference**



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

**March 6, 2015**

University Hilton  
University of Houston  
Houston, Texas 77204-3902

**Conference Registration**

The Conference is presented in a one day concentrated format to up date 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 27, 2015 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 and ask for CIGMAT Conference Rate.

**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 2/27/2015) \$125.00  
At-Door Registration \$140.00  
Student Registration\* \$ 75.00

Exhibitor^ \$300.00  
(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  
University of Houston  
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](mailto: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 6, 2015. The presentations will include current projects and proposed projects and energy needs for years 2015-2016 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: (8:00 a.m. to 9:50 a.m.)

**Dale Rudick**, "Review of City of Houston Projects, Plans and Technical Needs," Director, Public Works and Engineering Department, City of Houston, Houston, Texas, Keynote Speaker;

**Michael Alford**, "TxDOT Projects and Plans," District Engineer - TxDOT, Houston, Texas, Keynote Speaker;

**Jason Pettrey**, "Energy Needs – Current and Future", Department Head for Beaumont Refinery, ExxonMobile, Beaumont, Texas, Keynote Speaker.

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

##### Panel 1: Water and Wastewater Issues

**Moderator: Rafael Ortega**, Lockwood, Andrew and Newnam, Houston, Texas.

Panelist (also include short presentations)

**Jeffrey Haby**, "SAWS SSO Reduction Program and Consent Decree," Director Sewer System Improvement, SAWS, San Antonio, Texas

**Ivan Langford**, "Challenges and Issues with Water Management," Director, Gulf Coast Water Authority, Texas City, Texas

**Tommy McClung**, "SmartMeters for Water Distribution," Assistant Director, Resource Management Division, City of Houston, Houston, Tx.

##### Panel 2: Flooding, Maintenance and Geotechnical Issues

**Moderator: Stanley Yin**, TxDOT, Houston, Texas.

Panelist (also includes short presentations)

**Mike Talbott**, "Projects and Plans for Harris County Flood Control District," Director, Harris County Flood Control District, Houston, Texas.

**Diane Lowery-Binnie**, "Pavement Condition Data Sets & Improvements," Assistant Director, Street & Drainage Division, City of Houston, Houston, Texas.

**Foundations for Offshore Structures, Kalai Vembu**, Project Engineer, Fugro GeoConsulting, Houston, Tx.

##### Lunch Break, Exhibition & Research Posters

##### Posters on Research at University of Houston.

Companies participate in the Exhibition.

**12:30 to 1:00 p.m.** Honoring Late Mr. David Magill, President Avanti International and Founder of CIGMAT

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

##### Panel 3 : New Technologies for Maintenance and Monitoring

**Moderator: David Peters**, Senior Project Manager, Camp, Dresser & McKee Inc., Oklahoma City, Oklahoma.

Panelist (also includes short presentations)

**Mark Loethen**, "Context Sensitive Design, Pre-Engineering and Enhanced Data: Coming Together under ReBuild Houston", Deputy Director, Planning & Development Services Division City of Houston, Houston, Texas

"Evaluation of the Mechanical Properties of Self-compacting Concrete Containing Nano-particles in Elevated Temperatures," **Mohammed Jafari**, CDM-Smith Engineering, New York, New York

"Alkali Activated Cements and CBPC based coatings for Geotechnical and Structural Applications," **Shiva Sundar**, Research Manager Prime Resin, Atlanta, Georgia

##### Panel 4: Geosynthetics and Oil Well Construction Issues.

**Moderator: C. Vipulanandan**, University of Houston, Houston, Texas.

##### Tenth Mike O'Neill Lecture

**Geosynthetic Reinforced Soil: From the Experimental to the Familiar, Robert D. Holtz, Professor Emeritus, University of Washington**, Seattle, Washington.

**New Developments in Smart Cement and Drilling Muds for Real-Time Monitoring of Oil Well Cementing, 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.

