

HURRICANES, MAJOR DISASTERS, COASTAL PROTECTION AND RAPID RECOVERY IN TEXAS AND GULF COAST REGION

THC - 2019
11th Annual Conference



Texas Hurricane Center
for Innovative Technology

<http://hurricane.egr.uh.edu>

Conference and Exhibition
Sponsored by

**Texas Hurricane Center for Innovative
Technology (THC-IT)
&
Civil and Environmental Engineering
Industrial Engineering
University of Houston**

August 2, 2019

University Hilton
University of Houston
Houston, Texas 77204-3902

Conference Registration

The Conference is presented in a one day concentrated format to update the community, emergency managers and suppliers who play an important role in hurricane and other disaster preparedness, loss mitigation and rapid recovery. Well known and influential speakers will provide valuable information to the conference attendees. Complete and return the registration form with the registration fee before July 26, 2019 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 150 registrants.

For Hotel Reservations call (832) 531-6300 or 1-866-327-1161 and ask for Hurricane and Other Disaster Conference Rate.

Top Reasons To Attend:

- (1) Be informed about the latest plans and procedures in preparing for hurricanes and other major disasters in number of major Gulf coast cities.
- (2) Network with state, city and county emergency managers, engineers, suppliers, consultants, researchers, educators, scientists, students and exhibitors.
- (3) Presentations include hurricane Harvey experiences, debris management, preparedness, loss mitigation, evacuation, coastal protection, transportation issues, rapid recovery and new technologies that could influence your operations.
- (4) View research posters from many Gulf Coast Universities and attend the reception.
- (5) Houston is easily accessible from anywhere in the U.S.

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

REGISTRATION

Advanced Registration (by 7/26/2019) \$150.00
At-Door Registration \$165.00
Student Registration* \$ 85.00

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 THC-IT/UH
and mail it to:

Conference Registration
THC-IT/Dept. C&EE
4726 Calhoun Road
Houston, TX 77204-4003
(Attn: Dr. C. Vipulanandan (Vipu))

Name _____

Nick Name _____

Company _____

Address _____

City _____ State/Zip _____

Phone _____

Fax _____

Email _____

Contact Person _____
(office use only)

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 Texas Hurricane Center for Innovative Technology (THC-IT) on "Hurricanes, Major Disasters, Coastal Protection and Rapid Recovery in Texas and Gulf Coast Region" at the University of Houston on August 2, 2019. The presentations will include current preparation plans for the entire Gulf Coast including Texas counties and cities for the 2019 hurricane season and other disasters. Special feature of this conference is the four panel discussions on hurricane issues, other disasters, coastal protection and debris management. After the technical sessions, a reception will be held starting at 2:30 p.m. with invited state, 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 9:45 a.m.)

Charles Wemple, "Together Against The Weather – Preparing Our Region For The Next Storm," Executive Director, Houston Galveston Area Council, Houston, Texas, Keynote Speaker.

Michael deMasi, "U.S. Army Supporting Responses and Recovery to Disasters," Chief Emergency Manager, USACE-Dallas District, Dallas, Texas, Keynote Speaker

David Casebeer, "Managing Storm Impacts at Port Houston," Project Manager, Port Houston, Houston, Texas, Keynote Speaker

Session II: (10:00 a.m. to 11:30 a.m.)

Panel 1: Inland Flooding Issues and Recovery

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

Ataul Hannan, "Update on HCFCD's Near Real Time Mapping Program During Disasters," Director Planning Division, HCFCD, Houston, Texas;

Joseph Majdalani, "City of Beaumont Disaster Responses after Hurricane Harvey," Director, Public Works and Engineering, City of Beaumont, Beaumont, Texas.

Emergency Responses by ExxonMobil to Disasters, (TBA), ExxonMobil, Spring, Texas.

Jamila Johnson, "City of Houston Post Harvey Regulatory Changes-Floodplain, Storm water and Building Codes," Infrastructure Policy Manager, City of Houston, Houston, Texas.

Panel 2: Resilience and Emergency Response Issues

Moderator: Daniel Wong, Tolunay-Wong Engineers, Houston, Texas.

Kalyn Scott, "Building Resiliency in Texas: Program Status and Mitigation," Trainer-Community Development & Revitalization, Texas General Land Office, Austin, Texas.

Frank Ciaccio, "Post Harvey at Houston Airports," Manager Emergency Management, Houston Airport System, Houston, Texas.

A Creative Look at Weaponizing Your Existing Data: Exploring the use of GIS Data and Remote Sensing for Disaster Preparedness, Erik Mayo and Adam Ferguson Senior Consultant, Rostan Solutions and Don Cummins, Air Data Solutions, Louisiana and Florida.

Lunch Break, Exhibition & Research Posters

Posters on current research from **Various Universities along the Gulf Coast Region**. Companies participate in the Exhibition.

12:00 to 12:15 p.m. Judge K. P. George, "Fort Bend County Challenges and Preparedness," County Judge, Fort Bend County, Texas.

12:15 to 12:30 p.m. State Representative, Dennis Paul, "Updates on Issues Related to Disaster Protection and Recovery " State of Texas Representative-District No. 129, Seabrook, Texas.

12:30 p.m. to 1:00 p.m. Nim Kidd, Disaster Related Challenges in Texas" State Coordinator, Texas Department of Emergency Management, Austin, Texas.

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

Panel 3: Coastal Modeling, Hurricane Harvey Impact and New Technologies

Moderator: C. Vipulanandan, Houston, Texas.

Minimize Hurricane Surge Penetration into West/Galveston Bays: It's Crucial!, **Bruce Ebersole, T. Richardson, and Robert Whalin**, Jackson State University, Jackson, Mississippi

The Coastal Spine: Ideas on Modifying the USACE's Tentatively Selected Plan, **William Merrell, Leonard Waterworth, Samuel Brody and Cherie Coffman**, Texas A&M University, Galveston, Texas.

Hurricane Harvey Impact and New Technologies for Rapid Recovery Integrated with Artificial Neural Network (ANN), **C. Vipulanandan**, University of Houston, and **S. Parameswaran**, Texas Tech University, Lubbock, Texas.

Panel 4: Wind Issues and Advance Technologies

Moderator: Michael Lacy, P.E., Vice President, KIT Professional Inc., Houston, Texas.

Wall Functions for the k-ε Model to Predict Atmospheric Boundary Layer (ABL with OpenFOAM and Yang's k-profile, **Rajes Mutukumar, Qi Lu and Siva Parameswaran**, Texas Tech University, Lubbock, Texas and **C. Vipulanandan**, University of Houston

Port of Houston Operational Issues, **Jeayoung Cho**, Prairie View A&M University, Prairie View, Texas.

A Framework for Building a Smart Port and Smart Port Index, **Anahita Molavi, Gino Lim and Bruce Race**, University of Houston, Houston, Texas.

RECEPTION: (2:30 - 3:30 p.m.)

A reception will be held in the Exhibit area (food and drinks). In addition to conference participants, number of cities, counties 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.

"Innovation through Research and Education"