

**HURRICANES, MAJOR DISASTERS, COASTAL PROTECTION AND RAPID RECOVERY IN
TEXAS AND GULF COAST REGION
Final Program- THC 2019 (August 2, 2019)**

Session I: (8:30 a.m. to 9:45 a.m.) General Session

Moderator: C. Vipulanandan, Professor of Civil Engineering, University of Houston, Houston, Texas

Chuck Wemple, “Suddenly We Feel Boundaries – A New Dialogue about Loss, Hope, and Building a Stronger Region after Harvey,” Executive Director, Houston Galveston Area Council, Houston, Texas, Keynote Speaker.

Alicia Rea, "U.S. Army Supporting Responses and Recovery to Disasters," Director Emergency Manager, USACE-Galveston, Galveston, Texas, Keynote Speaker

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

9:45 – 10:00 a.m. Coffee Break (Exhibit Area)

Session II: (10:00 a.m. to 11:45 a.m.)

Panel 1: Inland Flooding Issues and Recovery

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

Ataul Hannan, “Importance of 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,” Public Works Director, City of Beaumont, Beaumont, Texas.

Jamila Johnson, “Post Harvey – Focus on Kashmere Gardens,” Infrastructure Policy Manager, City of Houston, Houston, Texas.

Panel Discussion: Major Flooding and Recovery

Panel 2: Resilience and Emergency Response Issues

Moderator: Showri Nandagiri, North Harris County Regional Water Authority, Houston, Texas.

Jet Hays, “Building Resiliency in Texas: Program Status and Mitigation,” Deputy Director - Community Development & Revitalization, General land Office, Austin, Tx.

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 Senior Consultant, Rostan Solutions and **Don Cummins**, Air Data Solutions, Louisiana and Florida.

Panel Discussion: Challenges in Resilience and Emergency Response

Lunch Break, Exhibition & Research Posters

Posters on research at **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. Shaun Miller, “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, Thomas 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 Discussion: Coastal Protection Issues and New Technologies.

Panel 4: Wind Issues and Technology Advances

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

Wall Functions for the k-e 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**, THC-IT, University of Houston

Oil Well Cement Integrity Challenges and Monitoring Methods, A. Aldughather, Aramco Services and **C. Vipulanandan**, THC-IT, University of Houston, Houston, Tx.

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

Panel Discussion: Potential Applications of New Technologies

RECEPTION: (2:30 - 3:30 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 issued after the conference.