

Flooding in Southeast Texas: The Science Behind the Floods

Day 1 – Wednesday, June 6, 2018

7:30		Registration and Breakfast	
8:30		Welcome and Opening Remarks: Cheryl Desforges, <i>Houston Geological Society President-Elect</i> Introduction and Overview: Bob Traylor, <i>Texas Railroad Commission Geologist (retired)</i>	
Session 1			
8:45	1	Hurricane Harvey's Impact on Harris County	Jeff Lindner , <i>Harris County Flood Control District – Director Hydrologic Operations Division/Meteorologist</i>
9:15	2	Formula for Resilience & Bond Proposal	Judge Ed Emmett , <i>Harris County Judge</i>
9:45	3	Hydrology and Hydraulics of Flooding and Flood Management in an Urban Environment	Dr. Christopher Mathewson , <i>Texas A&M University, Department of Geology & Geophysics, Regents Professor Emeritus</i>
10:15		Coffee Break	
Session 2			
10:45	4	Expected Frequency of Extreme Rain: Before and After Harvey	Dr. John Nielsen-Gammon , <i>Texas State Climatologist, Regents Professor at Texas A&M University</i>
11:15	5	Evolution of Southeast Texas Rivers and Bayous over Time	Dr. Bill Dupre , <i>University of Houston, Professor Emeritus</i>
11:45		Lunch	
		Economic Impact of Flooding	Senator Paul Bettencourt , <i>Texas State Senator, District 7</i>
Session 3			
1:15	6	River Flooding and Reservoir Capacity: Case Studies from USA and China	Dr. Jeff Nittrouer , <i>Rice University, Department of Earth, Environmental and Planetary Sciences, Assistant Professor</i>
1:45	7	Coastal Impacts from Inland Flooding: Examples from Bolivar Roads and San Luis Pass of Sediment Erosion and Deposition	Dr. Julia Wellner, Dr. William Sager, and Carolina Ramon , <i>University of Houston, Department of Earth and Atmospheric Sciences, Professors</i>
2:15	8	Towards “Smart” and “Green” Flood Control	Dr. Arturo Leon, Ph.D., P.E., D.WRE. , <i>Florida International University, (formerly University of Houston) Associate Professor Water Resources Engineering</i>
2:45		Coffee, Posters, Exhibits	
3:15	9	Detention Storage: A Vital Element for Flood Control in Houston	Dr. Philip B. Bedient , <i>Rice University, Herman Brown Professor of Engineering and Director, SSPEED Center</i>
3:45	10	Update on Corps Flood Risk Management Studies and Projects	Sheri Willey , <i>U.S. Army Corps of Engineers, Galveston District, Deputy Chief, Project Management</i>
4:15	11	Harvey Recovery and Flood Resilience	Stephen Costello , <i>City of Houston Mayor's Office Chief Resilience Officer “Flood Czar”</i>

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Day 2 – Thursday, June 7, 2018

7:30		Registration and Breakfast	
Session 4			
8:30	12	The Past, Present, and Future of Subsidence in the Houston Region	Michael J. Turco , <i>General Manager, Harris-Galveston Subsidence District, Fort Bend Subsidence District</i>
9:00	13	Coastal Texas Lidar: Lidar Data Collection and Processing Specifications and Deliverables	Keith Owens , <i>Technical and Business Development Manager Fugro USA Land, Inc.</i>
10:00		Coffee Break	
10:30	14	White Oak Bayou Drone Aerial Survey	Mike Allison , <i>Raptor Aerial Services, President</i>
11:00	15	Visualizing Houston's Drainage Systems – An Intuitive Assessment of Flood Risk	Davis Tolman , <i>D Tolman Interests LLC; Principal Geoscientist</i>
11:30		Lunch	
		Planning for a Resilient Region	Jeff Taebel, FAICP , <i>Houston-Galveston Area Council (H-GAC) Director, Community & Environmental Planning</i>
1:00	16	Preventing Flooding through Intelligent Stormwater Management	Viktor Hlas , <i>OptiRTC, Inc, Business Development Lead</i>
1:30	17	Sustainable Development and Management of Floodplains in Urban Areas: a Comparative Analysis of Brays Bayou to Buffalo Bayou	Dr. Lester King , <i>Research Scientist and Lecturer in the School of Natural Sciences, Rice University</i>
2:00	18	Prioritizing Flood Mitigation and Recovery Aid in Congress	Congressman John Culberson , <i>United States Congress</i>
2:10	19	Texas Statewide Mesonet (TexMesonet) Overview, Status and Challenges	Dr. Kantave (Leyon) Greene , <i>Texas Water Development Board, Texas Mesonet Program, Hydrologist/Meteorologist</i>
2:40		Coffee Break	
3:10	20	HCFCFD Activities Post Harvey	Matthew Zeve , <i>Harris County Flood Control District Director of Operation</i>
3:40		Panel Discussion: Moving Forward as a Region Resilience, Community Action, and Getting Involved Moderator: John Suter	Christof Spieler, PE, LEED AP , <i>Greater Houston Flood Mitigation Consortium, Project Manager (Vice President and Director of Planning at Huitt-Zollars) and</i> Auggie Campbell , <i>Houston Stronger (President/CEO of WHA)</i>