



URBAN FLOODING & INFRASTRUCTURE *MOVING FORWARD FROM HARVEY* CONFERENCE 2018 FEB 21-22, 2018 | BRC, RICE UNIVERSITY

Top academic, consulting, and governmental experts will present for a general audience.

Proposed Topics:

Moving Forward from Harvey
Urban Design for Flood Protection
Urban Flood Policy
U.S. Army Corps of Engineers
Climate Change & Communicating Flood Risk
Flood Warning Systems
Coastal / Solutions
Water Quality
Land Use Issues

To register, please [click here](#).



Day 1 | Wednesday, February 21

8:00 - 8:45 **Registration & Coffee**

OVERVIEW & KICKOFF

8:45 - 9:00 **Welcome & Introduction**
 Reginald Des Roches | Dean of Engineering, Rice University

9:00 - 9:10 **Overview of Conference**
 Phil Bedient | SSPEED Center, Rice University

9:10 - 9:35 **Hurricane Harvey's Impact**
 Jeff Lindner | Meteorologist, Harris County Flood Control District

SESSION I. Moving Forward from Harvey

9:35 - 9:55 **Title TBA**
 Stephen Costello | Chief Resilience Officer, City of Houston

9:55 - 10:20 **Title TBA**
 Ed Emmett | Judge, Harris County

10:20 - 10:50 BREAK

10:50 - 11:20 **Future Houston**
 Jim Blackburn | SSPEED Center, Rice University

11:20 - 11:40 **Societal Impacts of Flooding**
 TBA

11:40 - 12:00 **Communicating Flood Risk**
 Bill Wheeler | Deputy Emergency Management Coordinator, OEM

12:00 - 1:00 LUNCH

KEYNOTE **When the Impossible Becomes Possible**
 John Nielsen-Gammon | Texas State Climatologist, TAMU

SESSION II. Urban Design for Flood Protection

1:30 - 1:50 **Flood Risk Reduction & the Urban Built Environment**
 Sam Brody | Director of CTBS, Texas A&M Galveston

1:50 - 2:10 **Integrated Approaches for Flood Risk Reduction & Urban Development**
 Anne Loes Nillesen | Principal, Defacto Architecture & Urbanism

2:10 - 2:30 **Hurricane Harvey: Come Hell or High Water**
 Phil Bedient | SSPEED Center, Rice University

2:30 - 3:00 BREAK

SESSION III. Urban Flood Policy

3:00 - 3:20 **Taking Advantage of the Paradigm Shift – New Policy Opportunities in Development Regulations**
 Charles Penland | Senior Principal (Infrastructure), Walter P Moore

3:20 - 3:40 **Title TBA**
 Russ Poppe | Executive Director, Harris County Flood Control District

3:40 - 4:00 **The Future of our Flood Resiliency & Infrastructure Development**
 Jim Thompson | Chief Executive Texas & Gulf Coast Infrastructure, AECOM

4:00 - 4:30 **Flood Risk Reduction: Does a Probabilistic Approach Help?**
 Matthijs Kok | Professor of Flood Risk, Delft University of Technology, Netherlands

CLOSING & RECEPTION

4:30 - 4:45 **Closing Remarks**

4:45 - 6:30 **Reception & Poster Presentations**
 Sponsored by AECOM, LAN, & Walter P Moore

Day 2 | Thursday, February 22

8:00 - 8:30 **Coffee & Pastries**

KEYNOTE

Progress: A Look Back at Tropical Cyclone Forecasting over the Past 40 Years

8:30 - 9:00 Bill Read | Former Director, National Hurricane Center

SESSION I.

U.S. Army Corps of Engineers

9:00 - 9:25 **U.S. Army Corps of Engineers Flood Risk Management Programs & the Uncertainties Associated with the 100-Year Flood**
 Jerry Cotter | Chief of Water Resources Management, USACE (Ft. Worth)

9:25 - 9:45 **How Hurricane Harvey affected Texas and Addicks and Barker**
 Corragio Maglio | Chief of Hydraulics & Hydrology, USACE (Galveston)

SESSION II.

Climate Change & Communicating Flood Risk

9:45 - 10:05 **Influence of Climate Change on Hurricane Harvey & Future Storms**
 Dan Cohan | Associate Professor, Rice University

10:05 - 10:25 **Harvey, Jet Stream & Climate Change**
 Pedram Hassanzadeh | Assistant Professor, Rice University

10:25 - 10:45 **How the Public Processes Flood Forecasting, & How to Reach Them Afterward**
 Eric Berger | Editor, Space City Weather

10:45 - 11:00 BREAK

SESSION IIIA. Flood Warning Systems

11:00 - 11:20 **Advanced Flood Warning System & Its Performance during Hurricane Harvey**
 Nick Fang
 Assistant Professor, University of Texas at Arlington

11:20 - 11:40 **Flood Warning Systems in Highly Urbanized Environments**
 Jacob Torres
 Senior Hydrologist, Lockwood, Andrews & Newnam, Inc.

11:40 - 12:00 **Lies, Damned Lies, & Statistics - Communicating Risk**
 Andy Yung
 Principal (Infrastructure), Walter P Moore

SESSION IIIB. Land Use Issues

11:00 - 11:20 **Influence of Urbanization on Urban Flood Loss**
 Antonia Sebastian
 Postdoctoral Research Associate, Rice University

11:20 - 11:40 **Urbanization and Future Flood Risk in Houston**
 Russell Blessing
 Postdoctoral Research Associate, Texas A&M

11:40 - 12:00 **Spatial Predictors for Flood Loss**
 Wes Highfield
 Associate Professor, Texas A&M Galveston

12:00 - 1:00 LUNCH

SESSION IVA. Coastal / Solutions

1:00 - 1:20 **Storm Surge Forecasting & Impacts from Hurricane Harvey**
 Clint Dawson
 John J McKetta Centennial Energy Chair in Engineering, UT Austin

1:20 - 1:40 **Urban Flooding Impacts on Transportation Infrastructure: Lessons from Harvey & Future Steps**
 Jamie Padgett
 Associate Professor, Rice University

1:40 - 2:00 **Overview of Coastal Mitigation**
 Larry Dunbar
 Project Manager, SSPEED Center

KEYNOTE

The Impact of Small Things

2:00 - 2:30 Rob Rogers, FAIA | Founder, ROGERS PARTNERS Architects + Urban Designers

PANEL & CLOSING

2:30 - 3:00 **Panel Discussion**

3:00 - 3:10 **Closing Remarks & Questions**

SESSION IVB. Water Quality

1:00 - 1:20 **Environmental Impacts of Severe Storms**
 John Pardue, Ph.D.
 Louisiana State University

1:20 - 1:40 **Sediment & Water Quality Post Hurricanes & Severe Storms**
 Hanadi Rifai
 Professor, University of Houston

1:40 - 2:00 **Impact of Hurricane Harvey on the Distribution of Chemical & Microbial Contaminants**
 Qilin Li
 Professor, Rice University