



# 2023 SSPEED CONFERENCE

## URBAN AND COASTAL FLOODING: BUILDING A RESILIENT FUTURE

### DAY 1 THURSDAY, OCTOBER 12, 2023

<b>8:00 - 8:30</b>	<b>REGISTRATION &amp; COFFEE (THE COMMONS)</b>	
<b>INTRO</b>	<b>WELCOME AND OVERVIEW</b>	
8:30 - 8:45	Philip Bedient, Director, SSPEED Center & Professor, Rice University	
8:45 - 9:00	Luay Nakhleh, Dean of Engineering, Rice University	
9:00 - 9:15	Reginald DesRoches, President, Rice University	
<b>SESSION I.</b>	<b>HOW DO WE BUILD A FLOOD RESILIENT FUTURE</b>	
9:15 - 9:35	Philip Bedient, Director, SSPEED Center & Professor, Rice University	
9:35 - 9:55	Sally Priest, Professor, Flood Hazard Research Centre, Middlesex University	
9:55 - 10:15	Mary Anne Piacentini, President and Chief Executive Officer, Coastal Prairie Conservancy	
<b>10:15 - 10:35</b>	<b>BREAK (THE COMMONS)</b>	
<b>KEYNOTE</b>	<b>NATURE-BASED FLOOD SOLUTIONS</b>	
10:35 - 11:00	Petra Dankers, Leading Professional Nature-based solutions, Royal HaskoningDHV	
<b>SESSION II.</b>	<b>COASTAL PROTECTION FOR GALVESTON BAY</b>	
11:00 - 11:20	Rob Rogers, FAIA, ROGERS PARTNERS Architects+Urban Designers	
11:20 - 11:40	Clint Dawson, J.J. McKetta Centennial Energy Chair in Engineering, University of Texas	
11:40 - 12:00	Charles Penland, Managing Principal, Walter P. Moore and Associates, Inc.	
<b>12:00 - 1:00</b>	<b>LUNCH (THE COMMONS)</b>	
<b>KEYNOTE</b>	<b>TBA</b>	
1:00 - 1:25	Marcel Hertogh, Chair Infrastructure Design and Management, Delft University of Technology	
<b>SESSION III.</b>	<b>IMPACT ON FUTURE STORMS</b>	
1:25 - 1:45	Avantika Gori, Postdoctoral Researcher, Princeton University	
1:45 - 2:05	Sylvia Dee, Assistant Professor, Rice University	
<b>KEYNOTE</b>	<b>FLOOD PROTECTION AND CLIMATE ADAPTATION IN THE DUTCH DELTA</b>	
2:05 - 2:30	Pieter Janssen, Chief Executive Officer, Water Authority (Hoogheemraadschap) of Delfland	
<b>2:30 - 2:50</b>	<b>BREAK (THE COMMONS)</b>	
<b>SESSION IV.</b>	<b>CONCURRENT SESSIONS</b>	
	<i>Session "A" will be held in the Auditorium. Session "B" will be held in ACC 108</i>	
<b>2:50 - 4:00</b>	<b>A. INTERNATIONAL APPROACH TO FLOOD MITIGATION</b> <i>Session Lead: Baukje "Bee" Kothuis, Chief Representative, NBSO Texas</i>	<b>B. METEOROLOGY &amp; CLIMATE CHANGE (ACC 108)</b>
2:50 - 3:15	Stan Vergeer, Policy Developer Water & Climate, Gemeente Kampen	Matt Lanza, Managing Editor, Space City Weather
3:15 - 3:40	AnneLoes Nillesen, Professor, Delft University of Technology & Founder, Defacto Urbanism	Daniel Cohan, Associate Professor, Rice University
3:40 - 4:00	Yoonjeong Lee, Associate Research Scientist, IDRT, TAMUG	David Curtis, Senior Technical Advisor, WEST Consultants, Inc.
<b>RECEPTION</b>	<b>PLEASE JOIN US FOR APPETIZERS &amp; DRINKS</b>	
4:00 - 5:30	Generously sponsored by DEC, the Institute for a Disaster Resilient Texas and Walter P. Moore and Associates, Inc.	

**2023 SSPEED CONFERENCE**

**URBAN AND COASTAL FLOODING: BUILDING A RESILIENT FUTURE**

**DAY 2 FRIDAY, OCTOBER 13, 2023**

**8:00 - 8:30 REGISTRATION & COFFEE (THE COMMONS)**

**KEYNOTE TEMPORARY FLOOD SOLUTIONS**

8:30 - 9:00 Raymond Hofer, Dutch Water Prevention

**SESSION V. GOVERNMENTAL FLOOD CONTROL & THE FUTURE**

9:10 - 9:30 Tina Petersen, Executive Director, HCFCD

9:30 - 9:50 Carol Haddock, Director, Houston Public Works, City of Houston

9:50 - 10:10 Jerry Cotter, Water Resources Branch Chief, USACE

**PANEL PERSPECTIVES ON FLOOD CONTROL & THE FUTURE**

10:10 - 10:40 *Moderated by Larry Dunbar, Project Manager, SSPEED Center*

Tina Petersen, Executive Director, HCFCD

Carol Haddock, Director, Houston Public Works, City of Houston

Jerry Cotter, Water Resources Branch Chief, USACE

Jim Blackburn, Co-Director, SSPEED Center

**10:40 – 11:00 BREAK (THE COMMONS)**

**SESSION VI. CONCURRENT SESSIONS**

**11:00 – 12:20 A. BUILDING FLOOD RESILIENT AND SUSTAINABLE COMMUNITIES IN TEXAS (AUDITORIUM)**

11:00 - 11:20 Nick Fang, Robert S. Gooch Professor, University of Texas at Arlington

11:20 - 11:40 Glenn Clingenpeel, Executive Manager, Trinity River Authority of Texas

11:40 – 12:00 Hanadi Rifai, Moores Professor, University of Houston

12:00 - 12:20 Michelle Hummel, Assistant Professor, University of Texas at Arlington

**B. ADVANCED FLOODPLAIN ANALYSIS USING 2D HEC-RAS (ACC 108)**

Ataul Hannan, Director, Planning Division, Harris County Flood Control District

Duane Barrett, Water Resources Program Manager, HDR Engineering, Inc.

Laurian Cuba, WRE Team Director & Andy Yung, Principal/Chief Hydrologist, Walter P. Moore

Catherine Jackson, Graduate Student, SSPEED & Andrew Juan, Associate Research Scientist, IDRT

**12:20 - 1:20 LUNCH (THE COMMONS)**

**SESSION VII. CONCURRENT SESSIONS**

**1:20 – 2:40 A. MACHINE LEARNING FOR FLOOD PREDICTION AND MANAGEMENT (AUDITORIUM)**

1:20 – 1:40 James Doss-Gollin, Assistant Professor, Rice University

1:40 – 2:00 Ali Mostafavi, Associate Professor, Director, UrbanResilience.AI Lab, Texas A&M

2:00 – 2:20 Xia (Ben) Hu, Director, Data to Knowledge Lab (D2K) & Associate Professor, Rice University

2:20 – 2:40 Arlei Silva, Assistant Professor, Rice University

**B. NEW APPROACHES TO FLOOD RESILIENCE (ACC 108)**

Jamie Padgett, Stanley C. Moore Professor & CEE Chair, Rice

Paola Passalacqua, Associate Professor, University of Texas at Austin

Federico Antolini, Postdoctoral Researcher, IDRT, TAMUG

True Furrh, Graduate Student, SSPEED, Rice & Nick Diaz, Graduate Research Assistant, IDRT

**KEYNOTE ASSESSING HOUSTON'S FLOOD VULNERABILITY SIX YEARS AFTER HARVEY**

2:40 – 3:05 Jim Blackburn, Co-Director, SSPEED Center

**CLOSE THANK YOU FOR ATTENDING SSPEED'S 11<sup>TH</sup> CONFERENCE**

3:05 – 3:10 Phil Bedient, Director, SSPEED Center