

2017 NSF NHERI Wall of Wind Experimental Facility User Workshop

June 15-16, 2016

Florida International University (FIU)

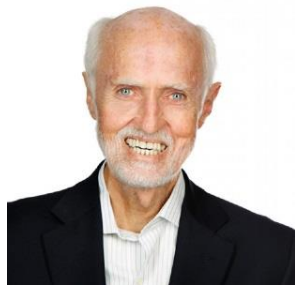
10555 W Flagler St, Room: EC 2830, Miami, FL 33174

Agenda

Day 1 - June 15, 2017	
Time	Item Description
13:00-13:15	Welcome, introduction of each attendee & workshop schedule
13:15-14:00	About NHERI Program and the NHERI Wall of Wind (WOW) Experimental Facility (EF)
14:00-14:30	Project Scheduling and Network Coordination Office (NCO)
14:30-15:00	Cyberinfrastructure (CI) and Data Management using: <i>DesignSafe-CI</i>
15:00-15:30	Break
15:30-16:30	Keynote Talk #1 by Dr. Ahsan Kareem: Role of NHERI EFs and SimCenter in Developing and Validating Computational and Numerical Modeling Techniques
16:30-17:00	Day 1 Closing Discussion and Q&A
Day 2 - June 16, 2017	
Time	Item Description
9:00-10:00	Tour of the NHERI WOW Experimental Facility and test demonstration
10:15-11:30	Test design and planning using NHERI WOW EF: <ol style="list-style-type: none"> 1. Aerodynamic and Aeroelastic Tests 2. Wind-Driven Rain Tests 3. Destructive Tests
11:30-12:00	Break
12:00-13:00	Keynote Talk #2 by Dr. Peter Irwin: Role of the NHERI WOW EF in Advancing Fundamental and Multidisciplinary Research on Natural Hazards Mitigation (Working Lunch)
13:00-14:00	Roadmap of Support Provided to NHERI WOW EF Users
14:00-14:30	Day 2 Closing Discussion and Q&A

About the Speakers:

Dr. Ahsan Kareem, the Robert M. Moran Professor of Engineering at the University of Notre Dame, came to Notre Dame in 1990 from the University of Houston, where he had been serving as Professor and Director of the Structural Aerodynamics and Ocean Systems Modeling Laboratory. Dr. Kareem received his bachelor's degree with distinction from Pakistan University of Science and Technology, followed by a master's degree from the University of Hawaii through a joint program at MIT under the Fulbright Program, and his doctorate from Colorado State University. He has received numerous honors, including the Presidential Young Investigator Award from the White House Office of Science and Technology in 1984, ASCE's J. E. Cermak and R. H. Scanlan Medals and IAWE's A. G. Davenport Medal for contributions to dynamic wind load effects on structures. He was honored by the American Society of Civil Engineering with the 2008 State-of-the-Art of Civil Engineering award. In 2009, he was elected to the National Academy of Engineering, for his contributions to analyses and designs to account for wind effects on tall buildings, long-span bridges, and other structures. He is a recipient of the University of Notre Dame 2009 Research Achievement Award. In 2010, he was elected as a Foreign Fellow of the Indian National Academy of Engineering and ASCE Board elected him as a Distinguished Member of ASCE.



Dr. Peter A. Irwin is a renowned wind engineering expert who joined the FIU Civil and Environmental Engineering faculty in early 2012 as Professor of Practice for the Wall of Wind. Dr. Irwin comes to Florida International University with over twenty years of experience as a highly sought-after wind engineering consultant.

Dr. Irwin spent six years with the National Research Council of Canada before moving into private engineering consulting at Rowan Williams Davies and Irwin Inc. (and its predecessor companies), where he has provided expert advice on major building projects for over twenty years. Dr.

Irwin has done wind consulting for some of the most ambitious building projects on record, including three structures to have held the honor of “world’s tallest building”: The Petronas Towers in Kuala Lumpur, Malaysia; Taipei 101 in Taipei, Taiwan; and Burj Khalifai in Dubai, UAE – currently the world’s tallest building. Dr. Irwin served in a variety of roles at RWDI, including Principal Engineer, Director of Technical Services, President and CEO and Chairman of the Board, between 1980 and 2012. During the nine years he was RWDI’s President and CEO, the company tripled its business, becoming the largest private engineering firm in the world. Today, Dr. Irwin continues his work with the company as a Senior Executive Consultant.