NSF IUCRC for Wind Hazard and Infrastructure Performance

Year 2, Phase II, Annual Meeting Agenda

September 14 - 15, 2026

FIU in Washington, D.C. | 601 New Jersey Avenue NW, Suite 103
Washington, D.C. 20001 Google Maps

September 14, 2026 (Monday), All times are EDT

8:00 Doors Open – Networking Breakfast

8:30 Opening Remarks and Self introductions

8:50 Welcome Message from FIU Leadership

9:00 Remarks by Dr. Seetha Raghavan, NSF IUCRC Program Director

9:15 Preamble, State of WHIP and Interest/Evaluation form (Airtable): Delong Zuo

Introductions of New Members

9:30 **Proposal Presentation 1**: *Effects of Building Orientation and Garage-Door Failure on Tornado-Induced Roof Damage in Wood-Frame Homes (Guangzhao Chen; Delong Zuo)*

9:45 **Proposal Presentation 2**: *Evaluation of inelastic performance of tall buildings under nonstationary extreme winds (Xinzhong Chen)*

10:00 **Proposal Presentation 3**: *Physics-Based Assessment of Tornado–Building Interaction: From Relative-Scale Effects to Neighborhood Vulnerability (Faiaz Khaled)*

10:15 **Proposal Presentation 4**: *Feasibility study for post-hazard local wind field reconstruction: Integrating field observations, LES, and Generative AI (Faiaz Khaled, Yimin Lu, Brian Hirth, Advisor: John Schroeder)*

10:30 Break

10:45 **Proposal Presentation 5**: *Roof-Initiated Damage Propagation and Functional Consequences in Data Center Rooftop Equipment-Roof Systems under Tornados (Bowei Li)*

11:00 **Proposal Presentation 6**: *Full-scale observational models and evidence-based calibration for WHIP's wind-surge building damage tool (Yimin Lu, Doug Smith)*

11:15 **Proposal Presentation 7**: *Probabilistic Risk Analysis of Trees Under Wind Loading (Zhiheng Wang)*

11:30 **Proposal Presentation 8**: *Tornado-Like Loading on Buildings of Representative Complex Shapes (Delong Zuo)*

11:45 **Proposal Presentation 9**: *Wind Uplift Performance of Hip & Ridge Shingles Across Roof Slopes (Arindam Gan Chowdhury; Ioannis Zisis)*

12:00 Lunch break

1:15 **Proposal Presentation 10**: *Wind Loads on Rooftop PV Systems on Partially Elevated Coastal Homes (Amal Elawady, Haitham Ibrahim)*

1:30 **Proposal Presentation 11**: *Physics-Informed Generative AI for Post-Event Tornado Wind-Swath Reconstruction from Multi-Source Damage Evidence (Omar Nofal)*

1:45 **Proposal Presentation 12**: *Wind Effects on Deflected Ballasted PV Arrays: Synthesis, Literature Review, and Code Recommendations (Ioannis Zisis; Arindam Gan Chowdhury)*

2:00 **Proposal Presentation 13**: *Risk vulnerability model for components of refinery plants or industrial facilities (Jean-Paul Pinelli)*

2:15 **Proposal Presentation 14**: *TBD*

2:30 **Proposal Presentation 15**: *TBD*

2:45 Comment by NSF Evaluator

3:00 Adjourn

Time for IAB members to complete Interest/Evaluation (Airtable) form

5:00 FIU in DC sponsored rooftop reception to include meeting participants and additional invited guests from partner orgs, industry, and government

September 15, 2026 (Tuesday), All times are EDT

8:00 Doors Open – Networking Breakfast

8:30 *Closed session of IAB for selection of Proposals and allocation of funds and election of next IAB Chair*

10:30 *Debriefing by IAB Chair to Site Directors on selection of Proposals*

11:00 Annual meeting adjourns

11:15 Meeting of Directors, NSF Program Director and Evaluator for Center operation (**Delong Zuo, Ioannis Zisis, Jean-Paul Pinelli, Anna Thomas, Seetha Raghavan, Denis Gray and others**)

12:00 Ad-hoc FIU in DC sponsored working lunch and a roundtable discussion (est. 2-3 hrs.)