

MINUTES

WHIP Center Meeting-in person in Coral Gables, FL
City of Coral Gables Police & Fire Headquarters
2151 Salzedo Street, Coral Gables

March 30, 2023

(All times are EDT)

March 30, 2023

Present: In-person and (remote)

IAB & Universities – Berkshire Hathaway: Thomas Baheru, Tim Doggett, and Xinxin Zhang; ***Esdec Solar Group***: Yann Schwarz; ***GAF***: Erica Sherman, Elizabeth Grant; ***NIST***: Marc Levitan, Tanya Brown-Giammanco and James LaDue; ***State Farm Insurance***: Eric Haefli ; ***Verisk***: Karthik Ramanatham and Tim Johnson; ***Florida Institute of Technology***: Nezamoddin Kachouie, Steven Lazarus, Jean-Paul Pinelli, Edmund Robbins, and Emese Sziklay; ***Florida International University***: Fahim Ahmed, Arindam Gan Chowdhury, Amal Elawady, Haitham Ibrahim, Seung Jae Lee, Ioannis Zisis; ***Texas Tech University***: Sang-Wook Bae, Eric Cardella, Marie Hanza, Daan Liang, Ting Lin, Kishor Mehta, Doug Smith, Delong Zuo; ***Texas Windstorm Insurance Association***: David Williams;

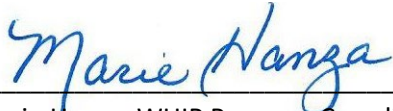
NSF –Denis Gray

Guests – ***City of Coral Gables***: Peter J. Iglesias and Douglas Ramirez

- 8:00 a.m. – Self-Introductions
- 8:20 a.m. – Welcome from Peter Iglesias, City Manager, Coral Gables
- 8:40 a.m. – Preamble, State of WHIP and Interest/Evaluation form (Airtable): Delong Zuo
- 9:00 a.m. - Amal Elawady/ Jean-Paul Pinelli: Empirical vulnerability model to assess impact of windborne tree debris on low-rise construction.
- 9:15 a.m. - Seung Jae Lee: Tree root anchorage capacity estimation for uprooting risk assessment – A numerical study
- 9:30 a.m. - Jean-Paul Pinelli: Risk vulnerability model for components of refinery plants or industrial facilities
- 9:45 a.m. - Break
- 10:00 a.m. - Presentation by Eric Haefli, State Farm: Equation for Success
- 10:20 a.m. – Daan Liang: Examining the linkage between recoveries of businesses and households from disasters.
- 10:35 a.m. - Kachouie Nezamoddin/Jean-Paul Pinelli: Continuation of the data integration project with an extension to satellite imagery and possible machine learning component
- 10:50 a.m. - Arindam Chowdhury/ Ioannis Zisis: Ballasted PV system load sharing and effective wind area (EWA)
- 11:05 a.m. - Ioannis Zisis: Effect of PV panel spacing on wind-induced loads
- 11:20 a.m. - Presentation by David Williams, TWIA

- 11:40 a.m. - Ting Lin: Probabilistic Sea-Level Rise and Storm Surge Hazard Analysis (PSLR-SSHA) towards Infrastructure Resilience
- 11:55 a.m. - Lunch Break
- 1:00 p.m. - Ioannis Zisis: Summary of IUCRC program: NSF program vs WHIP Center
- 1:15 p.m. - Doug Smith: Prediction of wind and surge damage to buildings by hurricane
- 1:30 p.m. - DeLong Zuo: Evaluation of Tornado-Like Loading on Buildings of Various Shapes and Geometries
- 1:45 p.m. - Sang-Wook Bae: Retrofitting Roof-to-Wall Connections in Light-Framed Wood Residential Buildings using Fiber-Reinforced Polymer Composite Materials
- 2:00 p.m. - Steven Lazarus: Redefining the traditional roughness characterization used in cat models
- 2:15 p.m. - Comments by Denis Gray (Evaluator)
- 2:35 p.m. – Ioannis Zisis and DeLong Zuo: Discussion of Phase 2 proposal
- 3:15 p.m. - IAB Members: Time for completing Interest/Evaluation form in Airtable
- 3:45 p.m. – Ioannis Zisis: Plan for Friday
- 4:00 p.m. – Adjourn

(See next page for the second day)



Marie Hanza, WHIP Program Coordinator

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IAB & Universities – Berkshire Hathaway: Thomas Baheru, Tim Doggett, and Xinxin Zhang; ***Esdec Solar Group***: Yann Schwarz; ***GAF***: Erica Sherman; ***NIST***: Marc Levitan, Tanya Brown-Giammanco and James LaDue; ***State Farm Insurance***: Eric Haefli ; ***Verisk***: Karthik Ramanatham and Tim Johnson; ***Texas Tech University***: Marie Hanza, Kishor Mehta,

NSF –Denis Gray

Call to Order and Welcome

Erica Sherman, WHIP Center IAB Chair, called the meeting to order. Sherman reminded everyone this was a closed session for IAB representatives.

Closed Session of IAB for Selection of Projects and Allocation of Funds

The table at the end of these minutes shows the selected projects for Year 5. For each project a company representative is a mentor.

During the Executive Session the IAB elected Marc Levitan as Chair-Elect for 2023-2024

Approved projects for year 5 WHIP Center

Number	PI/Co-PI (Institution)	Title	Duration	Mentors
WHIP2023-01	Zuo (TTU)	Evaluation of Tornado-Like Loading on Buildings of Various Shapes and Geometries	1 year	Tim Johnson, Marc Levitan, Tim Doggett, Dan Rhee
WHIP2023-02	Smith (TTU)	Prediction of wind and surge damage to buildings by hurricane	Not specified	Eric Haefli, Tim Doggett, Karthik Ramanathan, Tim Johnson,
WHIP2023-03	Chowdhury/Zisis (FIU)	Ballasted PV system load sharing and effective wind area (EWA)	1 year	Erica Sherman, Elizabeth Grant, Tanya Brown-G., Yann Schwarz

WHIP2023-04	Pinelli (FIT)	Risk vulnerability model for components of refinery plants or industrial facilities	1 year	Karthik Ramanathan, Tim Doggett, Marc Levitan
WHIP2023-05	Elawady (FIU)/ Pinelli (FIT)	Empirical vulnerability model to assess impact of windborne tree debris on low-rise construction	1 year	Tim Johnson, Abby Scott, Chris Kang, Tanya Brown-Giammanco, Dan Rhee, Daniel Diaz

Site Directors Ioannis Zisis, Delong Zuo, and Jean-Paul Pinelli came in after the selections/decisions were completed. There was general discussion about the selections and how the reductions in funds were made.

The meeting was adjourned at 11:00 a.m.

Marie Hanza, WHIP Program Coordinator