

Minutes

Wind Hazard and Infrastructure Performance Center (WHIP) IAB Meeting

November 5, 2020 – 8:30 am – 3:00 pm

Zoom Online Meeting

Attendees

IAB Members – *AIR Worldwide*: Karthik Ramanatham and Tim Johnson; *Berkshire Hathaway*: Tim Doggett and Xinxin Zhang; *GAF*: Kevin McGrath and Ming Shiao; *Permasteelisa, S.P.A.*: Guido Lori; *SCOR Global P&C* – Maurizio Savina; *State Farm Insurance*: Eric Haefli.

Invited Guests – *AON Benefield*: Katie Carter, Siamak Daneshravan and Megan Hart; *FEMA*: Jesse Rozelle and Pataya Scott; *Fenestration and Glazing Industry Alliance (FGIA)*: Jason Seals; *FM Global*: Hosam Ali, Lakshmana Doddipatla, and Shangyao Nong; *Gradient Wind, Ottawa*: UnYong Jeong; *Institute for Business and Home Safety* – Tanya Brown-Giammanco; *Metal Building Manufacturers Association (BA)/Thomas and Associates*: Lee Shoemaker; *National Glass Association*: Urmilla Jokhu-Sowell; *NIST*: Marc Levitan; *Texas Wind Insurance Association*: David Williams; *University of Alabama*: Daan Liang; *University of Arkansas*: Panneer Selvam; *University of Bologna*: Ernesto Salzano; *USAA*: David Hemry; *Walker Consultants*: Anurag Jain; *Walter P. Moore*: Mehedy Mashnad; *Window & Door Manufacturers Association*: Steve Orłowski.

University Representatives – *Florida Institute of Technology*: Jean-Paul Pinelli, Steve Lazarus, Michael Splitt, Chelakara Subramanian, Robert Weaver, Nima Aghli and Zhouxuan Wei; *Texas Tech University*: Kishor Mehta (Center Director), DeLong Zuo (Site Director), Doug Smith, John Schroeder, Yisha Xiang, James Yang and Marie Hanza; *Florida International University*: Mohamed ElZomor, Lu Zhang, Arindam Gan Chowdhury, Amal Elawady, Seung Jae (SJ) Lee, and Ioannis Zisis (Site Director).

NSF Designated Evaluator – *North Carolina State University*: Denis Gray.

Call to Order and Welcome

Kishor Mehta, WHIP Center Director, called the meeting to order and welcomed everyone participating.

Introductions

Introductions were self-made by those in attendance. Individuals identified themselves and place of employment.

Preamble, State of WHIP, Level of Interest and Feedback Evaluation (LIFE) Form

Documents listed in the title of this paragraph were reviewed by Mehta.

Preamble - The Preamble was reviewed by Mehta.

State of WHIP – Mehta reported the WHIP organization was in good shape. He reviewed the Center’s vision, research focus, accomplishments, and milestones for the Center’s second year, membership benefits, and the timeline for years two and three.

LIFE Form – This online document is used to provide feedback from IAB members to the faculty on the funded projects. Mehta covered how to login and complete the form.

Keynote Presentation: *Understanding and filling the gaps of design best practices against wind induced curtain wall failures* by Guido Lori, Ph.D., R&D Project Manager – Group Innovation and Technology, Permasteelisa/Atlas Group, Vittorio Veneto, Italy (IAB Member)

Special Presentation: *StickNet and TTUKa Radar Measurements* by John Schroeder, Professor of Atmospheric Science, Texas Tech University – Schroeder’s presentation provide a brief overview of the hurricane measurements and information gathered by these instruments, how the information was analyzed and how it was used.

Progress Report: *Investigation of wind driven rain and wind-induced vibration effects on curtain wall systems*, Co-PIs: Amal Elawady and SJ Lee, Florida international University; Mentor: Guido Lori.

Progress Report: *Estimation of interior and content damage due to wind driven rain ingress in to mid/high-rise buildings*, PI: Jean-Paul Pinelli, Florida Institute of Technology; Mentors: Maurizio Savina and Karthik Ramanathan.

Progress Report: *Investigation of wind performance of roofing elements using full-scale experimentation*, Co-PIs: Arindam Chowdhury and Ioannis Zisis, Florida International University; Mentor: Ming Shiao

Keynote Presentation: *Contribution of WHIP to Insurance Industry* by Tim Doggett, Ph.D., Vice President and Director of Atmospheric Perils, Berkshire Hathaway Specialty Insurance, Catastrophe Engineering & Analytics Group, Boston (IAB Member).

Progress Report: *Prediction of wind surge damage to buildings by hurricane*, PI: Doug Smith, Texas Tech University; Mentor: Tim Doggett

After the meeting, each presenter gave permission for their presentation to be shared with the attendees. Power point presentation can be requested from marie.hanza@ttu.edu

Discussion on Research Roadmap, Karthik Ramanathan, IAB Chair-Elect and IAB Members

General discussion was held concerning this topic. Faculty/University representatives were encouraged to review the document and determine if a topic or research theme would be something they were interested in pursuing. If there was a topic(s) that is of interest, they should then write no more than one-page summary concerning the research they could pursue. The summary would then be utilized by the Site Directors and Center Director to use as development of new proposals and recruitment of new members.

LIFE Feedback by Project PIS and moderated by Center Director Kishor Mehta

During this session, Mehta, the PIs, and IAB members asked and answered questions as they pertained to the different projects.

Adjournment of General Meeting and Beginning of Executive Session

At this point the general attendees were excused from the Zoom call. The only individuals remaining on the Zoom call were IAB members, Directors and NSF Assessment Evaluator. The Executive Session was called to order by IAB Chair.

Executive Session

Discussion included:

How many times could a non-member attend meetings – Three times - Everyone agreed emphasis should be placed on contacting the non-members who have attended a few times but not joined. Purpose of the contact is to encourage the non-member to join while learning what issues may be keeping them from joining. In the future, if company representatives have participated in the meetings, but the company has not joined, the company representative should not be invited.

IAB unanimously (voice vote) agreed that if a company joined in Year 3 and 4, the company will be able to receive research reports including IP from the previous years 1 and 2.

Adjournment at 3 pm