

MINUTES

WHIP Center Mid-Annual Meeting-Zoom

Thursday, October 28, 2021

(All times are Chicago/Central times)

Present: *Industry Advisory Board (IAB) MEMBERS* –**AIR Worldwide** – Karthik Ramanathan and Tim Johnson; **Berkshire Hathaway** – Tim Doggett; **GAF** –Erica Sherman, Ming Shiao and Kevin McGrath; **SCOR** – Maurizio Savina; **State Farm Insurance** – Eric Haefli; **USAA** – Daniel Diaz; UNIVERSITIES_ - **Florida International University** – Ioannis Zisis, Arindam Gan Chowdhury, Amal Elawady, and S. J. Lee; **Florida Institute of Technology** – Jean-Paul Pinelli, Zhouxuan Wei, and Assia Ibarria; **Texas Tech University** - Kishor Mehta, Delong Zuo, Brad Ewing, Doug Smith and Marie Hanza

NSF Partners: Crystal Leach, Daan Liang, and Denis Gray

Guests: **AECOM** – Samantha Krautwurst and Glenn Overcash; **Aon Benfield**-Megan Hart; **ARUP**-Viet Le and Ben Shao; **AXA XL, a division of AXA**-Ioana Dima-West and Joffrain Mathis; **Bechtel** – Sushil Chauhan, Xin Hai, Matthew Liu, and Mohammadreza Sharafbayani; **CB&I Storage Solutions/McDermott** – Greg Soules; **Curtainwall Design Consulting (CDC)**-Henry Yew; **Hiscox**-Kelsey Mulder; **Insurance Institute for Business and Home Safety**-Murray Morrison; **NIST**-Tanya Brown-Giammanco and Marc Levitan; **Permasteelisa** – Guido Lori; **Simpson Strong-Tie**-Doug Allen; **Swiss RE**-Erdem Karaca; **Texas Windstorm Insurance Association**-David Williams; **Walter P. Moore**-Mehedy Mashnad;

- 8:00 a.m. - Zoom call opened; informal greetings – Mehta welcomed everyone and thanked them for attending.
- 8:10 a.m. – 8:30 a.m. - Mehta reviewed the Preamble. Self-introduction of IAB members, guests, faculty, and students were conducted.
- 8:30 a.m. – 8:45 a.m. - State of the WHIP Center, Agenda and LIFE form : Kishor Mehta (State of WHIP ppt. on website)
- 8:45 a.m. – 9:45 a.m. - Progress reports (20 minutes each including Q & A)
 - *Time related expenses model, based on combination of exterior, interior, and contents damage*, PI: Jean-Paul Pinelli - Mentors: Maurizio Savina (SCOR), Karthik Ramanathan (AIR), and Daniel Diaz (USAA)
 - *Exploratory investigation of field damage, hazard, and institutional data for potential use in risk models*, PI: Jean-Paul Pinelli, Co-PIs: Kishor Mehta, Ioannis Zisis, Delong Zuo – Mentors: Tim Doggett (BHSI), Eric Haefli (State Farm), Karthik Ramanathan (AIR), Maurizio Savina (SCOR)
 - *Empirical vulnerability model to assess impact of windborne tree debris on low-rise construction*. PI: Amal Elawady, Co-PI: Jean-Paul Pinelli – Mentors: Tim Johnson (AIR), Eric Haefli (State Farm)
- 9:45 a.m. – 10:05 a.m. - “Benefits of WHIP Center to AIR” by Karthik Ramanathan, IAB Chair

- Ramanathan presented the benefits that AIR Worldwide has received and continues to receive. Also included was information about why a company/entity should join the WHIP Center.
- 10:05 a.m. – 10:15 a.m. - Break
- 10:15 – 10:35 - Comments by Dr. Crystal Leach, NSF Program Director for IUCRC
 - Leach welcomed those in presence and expressed thanks for the opportunity to discuss the National Science Foundation's (NSF) Industry University Cooperative Research (IUCRC) Centers. (The presentation ppt. on website)
- 10:35 a.m. – 11:55 a.m. - Progress reports (20 minutes each including Q & A)
 - *Prediction of wind and surge damage to buildings by hurricane*, PI: Doug Smith - Mentors: Eric Haefli (State Farm) and Tim Johnson (AIR)
 - *Probabilistic Modelling of Household Recovery after Hurricane and Wind Disaster*, PI: Brad Ewing - Mentors: Daniel Diaz (USAA)
 - *Development of Fragility Curves for Tornadic Loading on Low-Rise Buildings*, PI: Delong Zuo - Mentors: Tim Doggett (BHS) and Tim Johnson (AIR)
 - *Investigation of installation and anchor requirements of roof systems under high wind conditions*, PI: Arindam Chowdhury, Co-PI: Ioannis Zisis - Mentors: Jennifer Keegan and Ming Shiao (GAF)
 - LIFE Feedback on 7 projects by IAB and Guests are on website.
- 11:55 a.m. – 1:00 p.m. - Lunch break
- 1:00 p.m. – 1:20 p.m. - Research potential at TTU, FIU, and FIT by Delong Zuo, Ioannis Zisis, and Jean-Paul Pinelli
 - Each one of the site directors briefly discussed the research potential at their respective institutions. Facilities, faculty resources and typical research projects were presented. (Presentation ppt. on website)
- 1:20 p.m. – 2:20 p.m. - Comments by Guests on the type of research that can be pursued by WHIP Center. (Consolidated comments on type of projects and subject matter on website).
- 2:20 p.m. – 2:40 p.m. - Going forward and schedule for Year 4: Kishor Mehta
- Excused Guests
 - At this point in the meeting Mehta thanked the guests for their attendance and excused them from the meeting so the IAB members and Directors could go into Executive Session.
- 2:40 p.m. – 3:00 p.m. - Executive Session for IAB, Directors
 - Discussion included the meeting which had just concluded; how many times does a non-member get to attend and the pros and cons of other member driven organizations being a member of WHIP.
- 3:00 p.m. – Adjournment