

## Agenda for Video Conferencing

WHIP IAB Meeting on November 5, 2020

Times are Central Standard (Chicago) Time

8:30 am Introduction (IAB, Faculty, and Guests)

8:45 am Preamble, State of WHIP, LIFE Form (Mehta)

9:00 am 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); see Bio below\*

9:20 am Special Presentation: *StickNet and TTUKa Radar Measurements* by John Schroeder, Professor of Atmospheric Science, Texas Tech University; see Bio below \*\*

9:40 am 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

10:10 am Break

10:20 am 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

10:50 am 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

11:30 am Lunch Break

12:15 pm 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); see Bio below\*\*\*

12:35 pm Progress Report, *Prediction of wind and surge damage to buildings by hurricane*, PI: Doug Smith, Texas Tech University; Mentor: Tim Doggett

1:05 pm Discussion on Research Roadmap, Karthik Ramanathan, IAB Chair-Elect and IAB Members

1:35 pm Break

1:45 pm LIFE feedback by Project PIs and moderated by Center Director Kishor Mehta

2:15 pm Executive Session by Directors, IAB Members and NSF Directors

2:45 pm Wrap-up and next steps by Kishor Mehta

3:00 pm Adjourn

\*Dr. Guido Lori obtained his degree in mechanical engineering. He joined Permasteelisa Group in 2006. He is currently responsible for the Structural and Safety technologies of the Permasteelisa Group Innovation and Technology Department. He is leading the development of the proprietary software for the analysis of the facade response against blast loading and he has participated in several designs of blast enhanced facades all around the world. During his experience with Permasteelisa, he has collaborated with several US and other International Universities, focusing mostly on the facade response to dynamic loading, like wind, seismic and blast excitations. He is member of the Industry Advisory Board of WHIP Center.

\*\* Dr. John Schroeder obtained his Ph.D. in Civil Engineering in 1999. He has been a faculty member in Atmospheric Science Group at Texas Tech University since 2001. He has led the development of several unique instruments including the Ka-band radars, StickNet platforms, WEMITE portable towers, and the DOE-X radar. His research focus has been on making high-resolution measurements of the boundary layer that impact both the atmospheric science and engineering communities. He is recipient of the International Association for Wind Engineering Junior Award (limited to less than 40 years of age), National Weather Association's Larry R. Johnson Special Award, has a Protégé designation for the Texas Academy of Medicine, Engineering and Science, and received the Presidential Award for Commercialization activity at Texas Tech University.

\*\*\*Dr. Tim Doggett obtained his degree in atmospheric science from Texas Tech University in 1996, where he also spent a number of years on the faculty working on wind related research. Tim joined catastrophe modeling company AIR Worldwide in Boston in 2003, where he led the development of risk models that are used to quantify the expectations for insured loss from natural disasters such as hurricanes, severe thunderstorms, and winter storms. In 2015 he joined Berkshire Hathaway Specialty Insurance's Catastrophe Engineering and Analytics group as their director of atmospheric perils. There he leads an interdisciplinary team working to integrate current science and engineering considerations into the workflow to improve underwriting analytics for catastrophe exposed assets.