

# WHIP-C



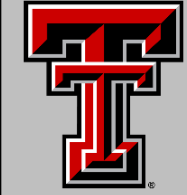
# FIU

Wind Hazard and Infrastructure Performance

## Antitrust Preamble:

- As members of this organization or participants in this meeting, we need to be mindful of the constraints of the antitrust laws. There shall be no discussions of agreements or concerted actions that may restrain competition. This prohibition includes the exchange of information concerning individual company or vendor company rates, coverages, market practices, claims settlement practices or any other competitive aspect of a company's operation. Each member or participant is obligated to speak up immediately for the purpose of preventing any discussion falling outside the bounds indicated.





**Wind Hazard and Infrastructure Performance**

National Science Foundation  
Industry/University Cooperative Research Centers  
WHIP Center

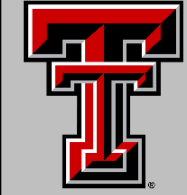
State of the Center

March 26, 2020

Kishor Mehta, Ph.D., P.E.

Director, WHIP Center





## Wind Hazard and Infrastructure Performance

Center Director Report on web site [www.whipc.org](http://www.whipc.org) > Meetings > March 26 - 27, 2020 (box) > Center director report

Year 1

March 21 -22, 2019: Inaugural Annual Meeting

April 8, 2019: Tele conference

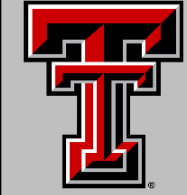
June 11, 2019: Tele Conference

October 23 – 24, 2019: Semi-annual Meeting

January 15, 2020: Tele Conference

Targeted Growth Efforts





## Wind Hazard and Infrastructure Performance

### Year 1 Projects

- WHIP2019\_02: Prediction of wind and surge damage to buildings by hurricane; PI: Doug Smith, TTU; Mentor: Tim Doggett, Berkshire Hathaway (no cost extension requested)
- WHIP2019\_03: Investigation of wind performance of roofing elements using full-scale experimentation; PI: Arindam Gan Chowdhury; co-PI: Ioannis Zisis, FIU; Mentor: Ming Shiao, GAF
- WHIP2019\_04: Investigation of wind-driven rain and wind-induced vibration effects on curtain wall systems; PIs: Amal Elawady and Seung Jae Lee; co-PIs Arindam Gan Chowdhury and Ioannis Zisis, FIU; Mentor: Karthik Ramanathan, AIR (no cost extension requested)
- WHIP2019\_06: Estimation of interior damage due to wind-driven rain ingress into mid/high rise buildings; PI: Jean-Paul Pinelli, FIT; Mentor: Maurizio SAVINA (Junaid SERIA), SCOR





## Wind Hazard and Infrastructure Performance

### Industry Members in Year 2

• AIR-Worldwide - A Verisk Business. Boston, MA



• Berkshire Hathaway - Specialty Insurance. Boston, MA



• GAF Materials - Parsippany. NJ



• Permasteelisa Group. Italy



**PERMASTEELISA GROUP**

• SCOR - The Art & Science of Risk. Chicago, IL

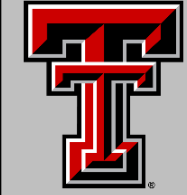


• State Farm - Insurance. Bloomington, IL



• USAA – Insurance, San Antonio, TX



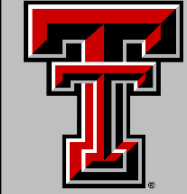


## Wind Hazard and Infrastructure Performance

### Timeline for Year 2

- February 1, 2020 NSF start of Year 2
- March 1, 2020 Membership fees are due for Year 2
- March 26 - 27, 2020 Annual IAB meeting at Texas Tech; decisions on projects
- April 30, 2020 Projects of Year 1 end
- May 31, 2020 Final reports of projects of year 1 due to IAB
- May 1, 2020 Start of projects of Year 2
- Tele conference meetings as needed
- October 2020 Semi-annual IAB meeting





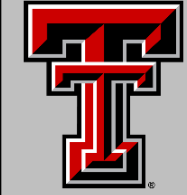
## Wind Hazard and Infrastructure Performance

### Research Focus

- Characterization of wind hazard
- Assessment of vulnerability of infrastructure
- Improvement of resilience
- Evaluation of societal impact by wind hazards/Climate change

Topics suggested by IAB and participants at the Miami meeting in October 2019 were distributed to faculty resulting into proposals on a varied subjects





## Wind Hazard and Infrastructure Performance

### Agenda

- March 26: 8:00 am – 3:30 pm Central Time
  - Discussion on projects of Year 1
  - Presentation of proposals for Year 2
  - Questions and LIFE
  - Responses to LIFE by faculty
- March 27: 8:30 am – 11:45 am Central Time (closed to IAB)
  - IAB selection of projects with allotted funds
  - By-laws discussion/vote by IAB







**Wind Hazard and Infrastructure Performance**

