

# About Missouri S&T

The Americas Conference on Wind Engineering (ACWE) stands as a preeminent international gathering for the wind engineering community, convened by American Association of Wind Engineering. With a great honor, Missouri University of Science and Technology (Missouri S&T) is proud to host the 15th ACWE in St. Louis, MO. Missouri S&T integrates education, research and application to create and convey knowledge that serves our state and helps solve the world's great challenges. It values discovery, creativity and innovation. It prepares students for a fulfilling life defined by the confidence to succeed, a desire to excel and a love of learning that never stops.

## CHAIRMAN

**Grace Yan**  
Professor, Director of Center for HMCR,  
Director of WHAM Laboratory,  
Missouri S&T.

## ORGANIZING COMMITTEE

<b>Kamal Khayat</b> Missouri S&T	<b>Joel Burken</b> Missouri S&T
<b>Genda Chen</b> Missouri S&T	<b>K.M. Isaac</b> Missouri S&T
<b>Ronaldo Luna</b> Saint Louis U.	<b>Daoru Han</b> Missouri S&T
<b>Panneer Selvam</b> U. of Arkansas	<b>Yi Zhao</b> Missouri S&T
<b>Natalie Goeddertz</b> Missouri S&T	

# Keynote Speakers



Ahsan Kareem  
NAE



John  
van de Lindt



Peter Vickery  
NAE



Jane Smith  
NAE



Greg Kopp



Ruby Leung  
NAE



Xugang Hua



Tim K.T. Tse

## Topics

- Projection of future design wind speeds
- Future tropical cyclone projection
- Aerodynamics of high-rise buildings
- Aerodynamics of low-rise buildings
- Environmental wind engineering
- Severe windstorms
- Wind-induced vibration of slender structures
- Wind Energy
- Performance-based wind engineering
- Socioeconomic impact of wind hazards
- General bluff-body aerodynamics
- Machine learning and artificial intelligence
- Recovery and resiliency
- Bridge and cable aerodynamics
- Innovative developments

# Mini-symposia

- **AI in Wind Engineering (Teng Wu)**
- **Measurement and Modeling of Transient Wind Characteristics (Franklin Lombardo)**
- **Computational Wind Engineering (Panneer Selvam)**
- **Catastrophe Modeling of Wind Hazards (Paolo Bocchini)**
- **Tornado Damage and Homeowners Insurance (Ji Yun Lee)**
- **Impacts of ground and lower boundary conditions on tornadoes (Jana Houser)**
- **Climate change impact on winds (Eun Cha)**
- **Downburst Effects on Structures (Amal Elawady)**
- **Debris Effects on Structures--Simulations and Vulnerability Assessments (Amal Elawady)**
- **Simulation of Wind Effects on Coastal Communities (Amal Elawady)**
- **Advancements in Resilience Modeling (Milad Roohi)**
- **Risk Assessment of Electric Power Systems against Hurricane Hazards (Yousef Darestani)**
- **Structural Monitoring & Disaster Warning (Jian Guo)**
- **Multi-Disciplinary Community Resilience and Reconnaissance Studies under Wind-Induced Events (Lisa Wang)**

## Workshop

- **Modeling Wind Hazard and Resilience Using IN-CORE (John van de Lindt)**

## Pre-conference event

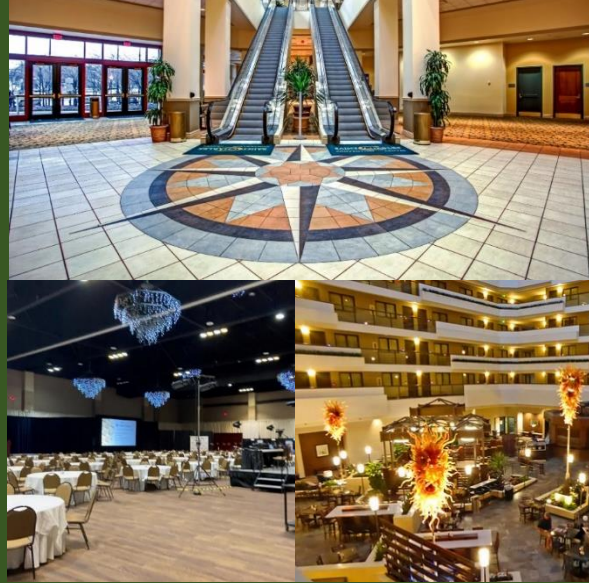
- **Tornado Load Design using ASCE 7-22 and the 2024 IBC (Marc Levitan)**

## Post-conference event

- **8th International Workshop on Advanced Wind Engineering Testing & Technology**
- **Sinquefield Missouri Tornado Simulator Tour**

# Conference Venue

St Charles Convention Center  
1 Convention Center Blvd, St Charles, MO



# Sightseeing



# Extra Benefits

- Publish in Journal of Advances in Wind Engineering (EIC: Teng Wu & Xuhui He)

# Sponsors or Exhibitors



More will be added Later! If you are interested in sponsoring the conference or doing the exhibition, please reach out to Grace Yan at yang@mst.edu.

# Contact Us

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yang@mst.edu

# 15th Americas Conference for Wind Engineering



May 19-22, 2025  
St Louis, MO, USA

[15acwe.mst.edu](http://15acwe.mst.edu)

# IMPORTANT DATES

- Aug. 1, 2024: Abstract Submission Opens
- Sept. 15, 2024: Abstract Submission Closes
- Nov. 1, 2024: Notification of Acceptance; Early Registration Opens
- Jan. 15, 2025: Full Paper Submission Deadline
- Feb. 1, 2025: Early Registration Closes

