

# 15th Americas Conference for Wind Engineering



SCAN ME

**May 19-22, 2025; St. Louis, MO, USA**

## IMPORTANT DATES

- **Aug. 1, 2024:** Abstract Submission Opens
- **Nov. 1, 2024:** Abstract Submission Closes
- **Dec. 15, 2024:** Notification of Acceptance
- **Jan. 15, 2025:** Early Registration Opens
- **Feb. 15, 2025:** Early Registration Closes
- **Oct. 1, 2025:** Full Paper submission Deadline (Full paper is optional)



## About Missouri S&T

The Americas Conference on Wind Engineering (ACWE) is an IAWE (International Association of Wind Engineering) Regional Conference for the Americas Region. It stands as a preeminent international gathering for the wind engineering community, convened by American Association of Wind Engineering (AAWE). 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.

### CHAIRMAN

#### Grace Yan

Professor, Director of Center for HMCR, Director of WHAM Laboratory, Missouri S&T

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## 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)
- Wind Energy and Wind-wave-structure Interactions (Chao Sun and Biswajit Basu)
- Advancements in Performance-Based Wind Engineering (Arthriya Subgranon & Seymour Spence)
- Other

## 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

## Conference Venue

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



## Sightseeing



## Extra Benefits

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

## Sponsors or Exhibitors



WIND ENGINEERING  
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**Strong-Tie**

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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