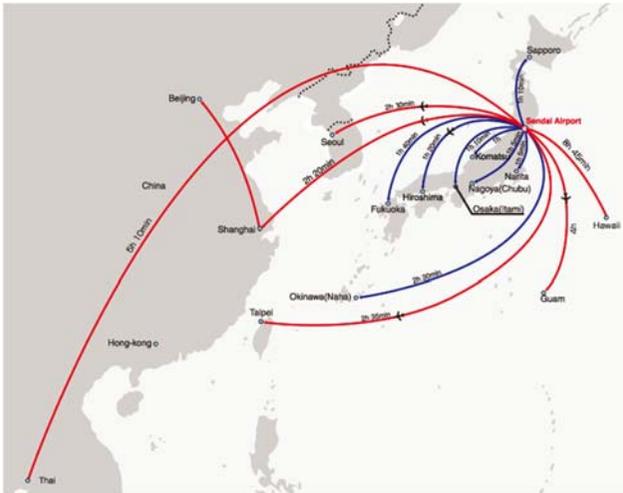


Venue

Sendai is a city with a population of one million, and is the political and economic center of Japan's Tohoku (northeast) Region. Although Sendai is a large city, it is known throughout Japan as a modern city in harmony with nature. The city possesses beautiful scenery, such as the Hirose-gawa River that runs through central Sendai, and the lush zelkova trees that line its streets. Greenery is especially abundant in the center of the city, which has tree-lined streets and parks. As a result, Sendai is called the "City of Trees."

Sendai is located approximately 300 kilometers (180 miles) north of Tokyo on the Pacific coast of Honshu (the largest of Japan's four major islands). Sendai lies in the center of the Tohoku (northeast) Region, one of the seven major regions in Japan. It takes about 1 hour and 40 minutes to reach Sendai from Tokyo on the Tohoku Bullet Train (Tohoku Shinkansen). Sendai also has regular flights to and from major domestic and international cities.



Domestic and international flights to Sendai International Airport

The Venue of the Workshop will be Qatar Science Campus Hall, Graduate School of Engineering, Tohoku University (Aobayama Campus). Tohoku University is located in the middle of Sendai. It takes 9 minutes from Sendai Station by subway.



Tohoku Bullet Train (Tohoku Shinkansen)



Aobayama Campus of Tohoku University



Qatar Science Campus Hall

First Announcement and call for papers

International Workshop on Wind-Related Disasters and Mitigation

**Tohoku University, Sendai, Japan
March 11 – 14, 2018**



Workshop website URL (<http://wrdm.jp/>)

Co-organized by:

Japan Association for
Wind Engineering



Graduate School of Engineering,
Tohoku University



Joint Usage/Research Center on
Wind Engineering,
Tokyo Polytechnic University



In cooperation with:

International Association for
Wind Engineering



Introduction and Workshop Scope

In recent years, wind-related disasters have occurred frequently not only in Japan but also overseas, causing significant casualty, property damage and economic loss. The sum of economic loss in the United States, Japan and China, which are disaster hotspots, makes up more than 80 % of the total worldwide loss. In addition, such disasters frustrate economic advancement in developing countries such as the countries of South-East Asia. Hence, the mitigation of wind-related disaster is a challenge needed to be faced by many countries. In this context, 'wind-related disasters' does not only refer to structural failure caused by strong winds, but also includes various disasters which are directly or indirectly caused by wind, such as strong winds which accompany various meteorological phenomena (e.g., typhoons and tornadoes) and environmental problem caused by weakened wind phenomena (e.g., urban heat islands and air pollution). Latest researches suggest that climate change affects increase of extreme weather and results in both extremely strong and weakened wind. In order to mitigate wind-related disasters, approaches from the social sciences must be combined with engineering and scientific approaches. This workshop will offer an opportunity to understand the current situation of wind-related disasters and to discuss the methodologies proposed by researchers and experts from various academic fields aimed at lessening loss caused by these disasters.

Themes

Based on the above scope, these three subjects will be especially focused on and discussed:

- Extreme weather and wind-induced damage
- Extreme weather and wind-related environmental issues
- Wind-related disasters in developing countries

The following subjects are also picked up:

- Wind storm or tornado disasters in the world: damage, reconstruction and revitalization
- Numerical and physical modeling of meteorological phenomena of extreme wind

- Wind-induced disasters of structures and agriculture
- Cascading disasters, combinations with other phenomena
- Dynamics and impact of flying debris
- Atmospheric dispersion of pollutants
- Innovative experimental methods for wind-related disaster research
- Computational methods for wind-related disaster research
- Economic damage cost and insurance
- Global warming, climate change and extreme weather on wind-related disasters

Official Language (Paper and Presentation)

The official language of the Workshop is English.

Abstract

Authors interesting to present a paper at WRDM are invited to submit a concise and informative one-page abstract that clearly describes the contents of the of the proposed paper before the required deadline. The format of the abstract is available from the workshop website (<http://wrdm.jp/>). The abstract shall be submitted electrically.

Proceedings

The manuscripts of all full papers, up to 10 pages, will be distributed in the Workshop Proceedings. The Proceedings will include invited papers.

Post-Workshop Publication

Selected papers will be published in the special issue of Journal of Wind Engineering & Industrial Aerodynamics.

Key Dates

Announcement and Call for Papers	June, 2016
Submission of one-page abstract	July 15, 2017 (Extended)
Notice of acceptance for presentation	August 31, 2017
Submission of full paper	November 30, 2017
Early Registration	December 31, 2017
Workshop on WRDM	March 11, 2018

Registration Fee

	Until Dec 31, 2017	After Dec 31, 2017
Delegates	50,000 JPY	55,000 JPY
Student	20,000 JPY	25,000 JPY

Organizing Committee

Yasushi Uematsu, *Workshop Chairman*
Hiromichi Shirato, *Workshop Co-Chairman*
Takashi Nomura, *Chair of Scientific Committee*
Akashi Mochida, *Chair of Executive Committee*
Hiroto Kataoka
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