PROGRAM (Tentative)

Place:
Icebreaker (March 10): Student hall
Keynote and Transdisciplinary sessions: Main conference room (6th floor of main building)
Parallel sessions: Room 011 (Structural WE) and Room 012 (Environmental WE) (1st floor of main building)
Dinner (March 11): Student restaurant

Reception
March 10: Student hall
March 11 and 12: Main conference room (6th floor of main building)

March 10 (Sunday), 2019

16:00 ~ 17:30  Technical Tour
(Atsugi campus, TPU)

17:30 ~ 19:00  Icebreaker Reception
(Student hall, Atsugi campus, TPU)
March 11 (Monday), 2019

08:50 ~ 09:00  Opening Address
(Main building, 6th floor, Main conference room)

09:00 ~ 09:30  General Report of 6 Year’s Collaborative Activity
(Main building, 6th floor, Main conference room)

09:30 ~ 10:20  Keynote Session I  
Session chair: Y.C. Kim (TPU)
Detection, simulation, modelling and loading of thunderstorm outflows to design wind-safer and cost-efficient structures
Giovanni Solari (University of Genova, Italy)

10:20 ~ 10:30  Coffee Break

10:30 ~ 10:45  Transdisciplinary Session I  
Session chair: A. Yoshida (TPU)
Pedestrian-level wind speed around isolated square type buildings: Effect of height, width, aspect ratio
Qingshan Yang (Chongqing University, China)

10:45 ~ 11:00  Interference effects of high-rise buildings based on aerodynamic and aero-elastic database
Yuan-Lung Lo (Tamkang University, Taiwan)

11:00 ~ 11:15  Wind tunnel experiments and numerical simulations of pedestrian-level wind environment around tall buildings
Bowen Yan (Chongqing University, China)

11:15 ~ 11:30  The effect of buildings layout on flow over urban area
Biao Li (Harbin Institute of Technology, China)
### 11:30 ~ 11:45
Effects of tree arrangement on wind and thermal environments at pedestrian level  
*Miki Homma (Tohoku University, Japan)*

### 11:45 ~ 12:00
Verification of vehicle canopy model in the thermal environment of urban street canyon  
*Qiong Li (South China University of Technology, China)*

### 12:00 ~ 13:00
**Group Photo & Lunch**

### Transdisciplinary Session II  
Session chair: Y. Yamamoto (TPU)

#### 13:00 ~ 13:15
Flow characteristics of turbulent boundary layer over aligned and staggered roughness  
*HeeChang LIM (Pusan National University, Korea)*

#### 13:15 ~ 13:30
Large eddy simulation of flow over horizontal non-uniform buildings under neutral stable conditions  
*Lu Wang (Harbin Institute of Technology, China)*

#### 13:30 ~ 13:45
LES analysis of energy dissipation rate and airflow rate within urban districts  
*Yasuyuki Ishida (Tohoku University, Japan)*

#### 13:45 ~ 14:00
Unsteady RANS simulation and large-eddy simulation around an isolated building: The effects of separation shear layer on the instantaneous concentration dispersion field  
*Xinyi Li (Tokyo Institute of Technology, Japan)*

#### 14:00 ~ 14:15
Numerical simulation of non-isothermal flow and dispersion fields: An LES study with artificially generated inflow turbulence  
*Tsubasa Okaze (Tokyo Institute of Technology, Japan)*

#### 14:15 ~ 14:30
Wind loads and aerodynamic mechanisms on flat-roof-mounted solar arrays under normal winds by LES  
*Jingxue Wang (Beijing Jiaotong University, China)*

### 14:30 ~ 14:40
**Coffee Break**
Parallel Session for Structural Wind Engineering
(Main building, 1st floor, Room 011)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Topic</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>14:40~14:55</td>
<td>Impact of tornado vortex induced aerodynamic loads on structural projections in low rise buildings</td>
<td>Rajesh Goyal (National Institute of Construction Management and Research, India)</td>
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<tr>
<td>14:55~15:10</td>
<td>Wind loads on a streamlined bridge deck exposed to translating tornado-like vortices</td>
<td>Shaolan Ren (Tongji University, China)</td>
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<tr>
<td>15:10~15:25</td>
<td>Wind loads on ground-mounted solar arrays exposed to tornado like vortices</td>
<td>Jinxin Cao (Tongji University, China)</td>
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<tr>
<td>15:25~15:40</td>
<td>Research on behavior and damage of tropical cyclone and severe local storms around the Bay of Bengal - Case study of Bangladesh and Myanmar -</td>
<td>Taiichi Hayashi (Kyoto University, Japan)</td>
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<tr>
<td>15:40~15:55</td>
<td>Peak wind pressure acting on high-rise buildings with step on wall surface</td>
<td>Akihito Yoshida (Tokyo Polytechnic University, Japan)</td>
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<tr>
<td>15:55~16:05</td>
<td>Coffee break</td>
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<tr>
<td>16:05~16:20</td>
<td>Design wind speeds and long-term wind speed trends in New Zealand</td>
<td>Amir Ali Pirooz (University of Auckland, New Zealand)</td>
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<tr>
<td>16:20~16:35</td>
<td>Measurement unit for structural response utilizing MEMS sensor</td>
<td>Yoshihiro Nitta (Ashikaga University, Japan)</td>
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<tr>
<td>16:35~16:50</td>
<td>Characteristics of net force coefficients of noise barriers with various leading edges</td>
<td>Wonsul Kim (Korea Institute of Ocean Science &amp; Technology, Korea)</td>
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<tr>
<td>Time</td>
<td>Session</td>
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</table>
| 16:50 ~ 17:05| Maximum peak wind force coefficients for signboards installed on rooftop of buildings  
*Yuka Masuyama (Wind Engineering Institute, Japan)* |
| 17:05 ~ 17:20| Effective static wind load estimation for clips between purlins and metal panels in standing seam roofing system  
*Y. Q. Li (Tongji University, China)* |
| 17:20 ~ 17:35| Randomness in the effective load distributions  
*Bofan Chen (Ruhr-University Bochum, Germany)* |
|              | Parallel Session for Environmental Wind Engineering  
(Main building, 1st floor, Room 012) |
|              | General Session II Session chair: TBD |
| 14:40 ~ 14:55| Influence factors analysis of unorganized ventilation caused by piston effect in subway station  
*Yue Zhang (Tsinghua University, China)* |
| 14:55 ~ 15:10| Study on ventilation performance in PASSIVETOWN Kurobe Model Third City Block based on actual measurement  
*Minori Shibata (Tokyo University of Science, Japan)* |
| 15:10 ~ 15:25| Study on cross-ventilation performance of residences in the passive town kurobe model based on measurements and CFD  
*Yoju Homma (Tokyo University of Science, Japan)* |
| 15:25 ~ 15:40| Study about the ventilation flow late increase technique by the wind catcher -Influence to transformation coefficient by shape change-  
*Taito Takahashi (Kanto Gakuin University, Japan)* |
| 15:40 ~ 15:55| About the acquisition of the wall surface neighborhood wind velocity by PIV  
*Kazuki Chiba (Kanto Gakuin University, Japan)* |
15:55 ~ 16:05  Coffee break

General Session IV  Session chair: TBD

16:05 ~ 16:20  Investigation of indoor thermal environment in homes and health status of elderly people in Guangzhou, China
Peijie Tang (South China University of Technology, China)

16:20 ~ 16:35  Prediction methods for thermal sensation and comfort (part 1) subject experiments to develop local thermal sensation predicting model under transient conditions
Yoshito Takahashi (Waseda University, Japan)

16:35 ~ 16:50  Prediction methods for thermal sensation and comfort (part 2) development of local thermal sensation predicting model under transient conditions
Akihisa Nomoto (Waseda University, Japan)

16:50 ~ 17:05  Study on the effect of the fluctuation of wind on thermal comfort and pleasant sensation
Yusaku Nishimuro (National Institute of Technology, Toyota College, Japan)

17:05 ~ 17:20  Differences of thermal sensations and thermal comfort in fluctuation patterns of air velocity in hot and humid environment
Daiki Murase (Niigata University, Japan)

17:50 ~ 20:00  Dinner
(Student restaurant, Atsugi campus, TPU)
## March 12 (Tuesday), 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker &amp; Affiliation</th>
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<tbody>
<tr>
<td>09:00 ~ 09:50</td>
<td><strong>Keynote Session II</strong></td>
<td>Heat dome and urban warming</td>
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<td></td>
<td><em>Yuguo Li (Hong Kong University, Hong Kong)</em></td>
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<tr>
<td>09:50 ~ 10:00</td>
<td><strong>Coffee break</strong></td>
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<tr>
<td>10:00 ~ 10:15</td>
<td><strong>Transdisciplinary Session III</strong></td>
<td>Comparison of heat balance mechanism in urban space inside Sendai city, Japan, between 2000s and 2050s</td>
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<td><em>Miguel Yamamoto (Tohoku University, Japan)</em></td>
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<tr>
<td>10:15 ~ 10:30</td>
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<td>Development and validation of a new urban canopy model for the dynamical prediction of wind and thermal environment in severe cold regions</td>
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<td><em>Jing Liu (Harbin Institute of Technology, China)</em></td>
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<td>10:30 ~ 10:45</td>
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<td>The vertical distribution characteristics of PM2.5 and PM10 mass at a high-rise building of Shanghai</td>
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<td><em>Tingting Hu (Tongji University, China)</em></td>
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<td>10:45 ~ 11:00</td>
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<td>Overview of Damage in Florida after the Passage of Hurricane Michael</td>
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<td><em>Jean-Paul Pinelli (Florida Institute of Technology, USA)</em></td>
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<tr>
<td>11:00 ~ 11:15</td>
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<td>Damage to light frame structures from the 2018 hurricanes in the U.S.</td>
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<td><em>Vijaya Gopu (Louisiana Transportation Research Center, USA)</em></td>
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<tr>
<td>11:15 ~ 11:30</td>
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<td>Evaluation of wind hazard over Peninsular Malaysia using geospatial modeling</td>
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<td><em>Noram Irwan Bin Ramli (University Malaysia Pahang, Malaysia)</em></td>
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<tr>
<td>11:30 ~ 12:30</td>
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<td><strong>Lunch</strong></td>
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<tr>
<td>Time</td>
<td>Session</td>
<td>Presenter</td>
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<tr>
<td>12:30 ~ 12:45</td>
<td>Evaluating aerodynamic characteristics and wind response of a twin building using POD</td>
<td>Tim K.T. Tse (Hong Kong University of Science and Technology, Hong Kong)</td>
</tr>
<tr>
<td>12:45 ~ 13:00</td>
<td>Effects of surface roughness on the local pressure of high-rise building</td>
<td>Yi Hui (Chongqing University, China)</td>
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<tr>
<td>13:00 ~ 13:15</td>
<td>Wind interference effect between tall buildings for changing plan ratios</td>
<td>Siddharth Behera (CSIR-Central Building Research Institute Roorkee, India)</td>
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<tr>
<td>13:15 ~ 13:30</td>
<td>Wind loading effects on tubular wind turbine tower considering overall and local wind-induced behaviors</td>
<td>Zhibin Ding (Sichuan University, China)</td>
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<tr>
<td>13:30 ~ 13:45</td>
<td>Control of flows around an elliptical cylinder by using air suction</td>
<td>Chaorong Zheng (Harbin Institute of Technology, China)</td>
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<tr>
<td>13:45 ~ 13:55</td>
<td>Coffee break</td>
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<tr>
<td>13:55 ~ 14:10</td>
<td>Study on peak wind force coefficients for cladding of screen standing on rooftop</td>
<td>Hiromu Honda (Tokyu construction, Japan)</td>
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<tr>
<td>14:10 ~ 14:25</td>
<td>Aeroelastic model tests of a tall building to study vibration response in ABL and tornado wind</td>
<td>Partha Sarkar (Iowa State University, USA)</td>
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<tr>
<td>14:25 ~ 14:40</td>
<td>Dynamic analysis of coupled wind-train-bridge system considering tower shielding and triangular wind barriers</td>
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</table>
Parallel Session for Environmental Wind Engineering
(Main building, 1st floor, Room 012)

General Session VI
Session chair: K. Mizutani (TPU)
12:30 ~ 12:45 Experimental investigation on moisture buffering value of hygroscopic MPCM under different air-flow conditions
Huibo Zhang (Shanghai Jiao Tong University, China)

12:45 ~ 13:00 Studies on the effect of hot urban summer environmental measures on the human body
Shu Yoda (Waseda University, Japan)

13:00 ~ 13:15 Study on sensible heat and latent heat loss characteristics and thermal comfort of each human body part
Shun Ito (Tokyo Polytechnic University, Japan)

13:15 ~ 13:30 Comparisons of the body's temperature regulating system under different climatic conditions
Suen Waihong (Tokyo Polytechnic University, Japan)

13:30 ~ 13:45 -

13:45 ~ 13:55 Coffee break

General Session VIII
Session chair: TBD
13:55 ~ 14:10 Measurement of flow and dispersion around the downwind slope of a trapezoidal
embankment
*Bao-Shi Shiau (National Taiwan Ocean University, Taiwan)*

**14:10 ~ 14:25**

Study of Strouhal number of bridge cables in turbulent flows
*Arsenii Trush (Czech Technical University, Czech)*

**14:25 ~ 14:40**

Tornado-induced wind load on structures
*Shuyang Cao (Tongji University, China)*

**14:40 ~ 14:55**

Aerodynamic characteristics of solar wing system
*Yong Chul Kim (Tokyo Polytechnic University, Japan)*

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**15:20 ~ 15:30**

Closing Address
(Main building, 1st floor, Room 011)