

3rd Joint Workshop on Building/Civil Engineering between Tongji & Tokyo Tech



Aug. 2nd-4th, 2016
at Tokyo Tech Suzukakedai Campus
Host Laboratory for Materials & Structures

August 2nd

9:00~9:30 Registration @J2 building 20F

9:30~10:00 Opening remarks (Toru Takeuchi / Yiyi Chen) @J2 building 20F

10:00~11:00 Keynote from Tongji (Chair: Yiyi Chen) @J2 building 20F

Structural Health Monitoring of Long-Span Bridges in China / **Limin Sun**

11:00~12:00 Keynote from Tokyo Tech (Chair: Satoshi Yamada) @J2 building 20F

High Performance Computing of Wind Impact on Buildings in City / **Tetsuro Tamura**

12:00~13:30 Lunch

13:30~15:10 Session 1 (Co-chairs: Limin Sun and Hisato Hotta) @J2 building 20F

Ultimate Drift Capacity of RC Shear Walls / **Chanipa Netrattana**

Fatigue Failure of Steel Reinforced Concrete (SRC) Beams without Stud Shear Connectors

/ **Shun Xiao**

Shaking Table Test on One Third Scaled Model of Wooden Horizontal Hybrid Structure / **Di Wu**

PDEM-based Seismic Response Analysis and Reliability Evaluation of Nonlinear Structures / **Junyi Yang**

Studies on Maximum Displacement Response of Low Rise Three-Dimensional Reinforced-Concrete Frames Subject to Bidirectional Seismic Lateral Inputs / **Kaho Ishida**

15:10~15:30 Coffee break @J2 building 20F

15:30~17:10 Session 2 (Co-chairs: Jun Chen and Shuji Tamura) @J2 building 20F

Evaluation Methods of No-Shoes-Floor Deformation Properties Considering Comfortableness of Human Activities / **Shintaro Fukuda**

Effect of Additional Diaphragms on the Wind-Resistant Performance of Power Transmission Tower

/ **Yunzhu Cai**

The Numerical Simulation of Extreme Local Gust in A Severe Storm Process / **Tao Tao**

Power Spectrum Model for Individual Jumping Load / **Jiecheng Xiong**

Seismic Earth Pressure of Cohesive Soil Based on Centrifuge Tests / **Daisuke Odaka**

18:00~20:00 Welcome party (Chair: Satoshi Yamada) @J2 building 20F

August 3rd

10:00~11:40 Session 3 (Co-chairs: Limin Sun and Daiki Sato) @J2 building 20F

Optimization Analysis of Ordinary Outrigger Trusses and Outrigger Trusses with Buckling Restrained Braces / **Lili Xing**

Dynamic Responses Evaluation of Damped-Outrigger Systems with Various Heights / **Huang Bin**

Analysis on Seismic Behavior of Special Perforated Buckling-Restrained Steel Plate Shear Wall

/ **Meng Wang**

Vibration Control of High-Rise Building Using Passive-Base Isolation and Active Control / **Kou Miyamoto**

Seismic Evaluation and Retrofit of 1100-kV UHV Porcelain Transformer Bushings / **Chang He**

Group photo

11:40~13:30 Lunch

13:30~15:10 Session 4 (Co-chairs: Jun Chen and Daiki Sato) @J2 building 20F

Shaking Table Testing of A Steel Frame with the TL-PD / **Jianze Wang**

Local Buckling Strength of Uniformly Compressed Octagonal Section Member / **Tomoki Kobashi**

The Generalized-Ductile-Demand Analysis during Structural Progressive Collapse / **Zhiyang Xie**

Low-Cycle Fatigue Test on The Welded Flange-Bolted Web Connections / **Dongseok Lee**

Tuned-Inerter-Dampers for Cable Networks / **Dongxiao Hong**

15:30~15:50 Best presentation award (Toru Takeuchi) @J2 building 20F

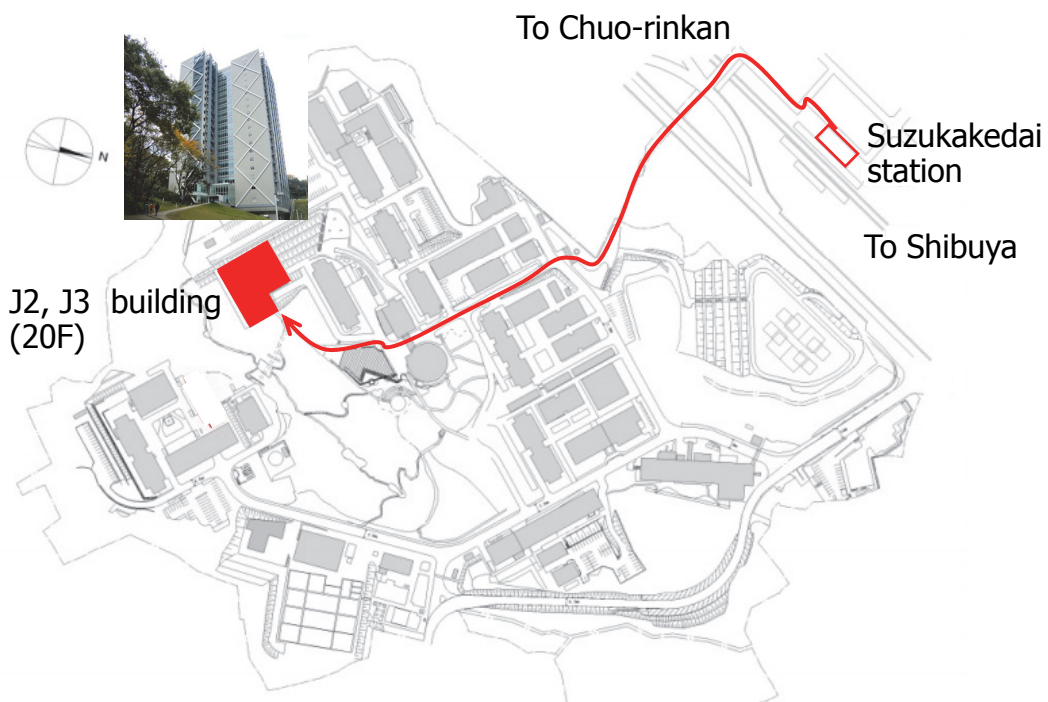
15:50~16:10 Closing remarks (Yiyi Chen / Toru Takeuchi) @J2 building 20F

17:00~ Banquet for professors

August 4th

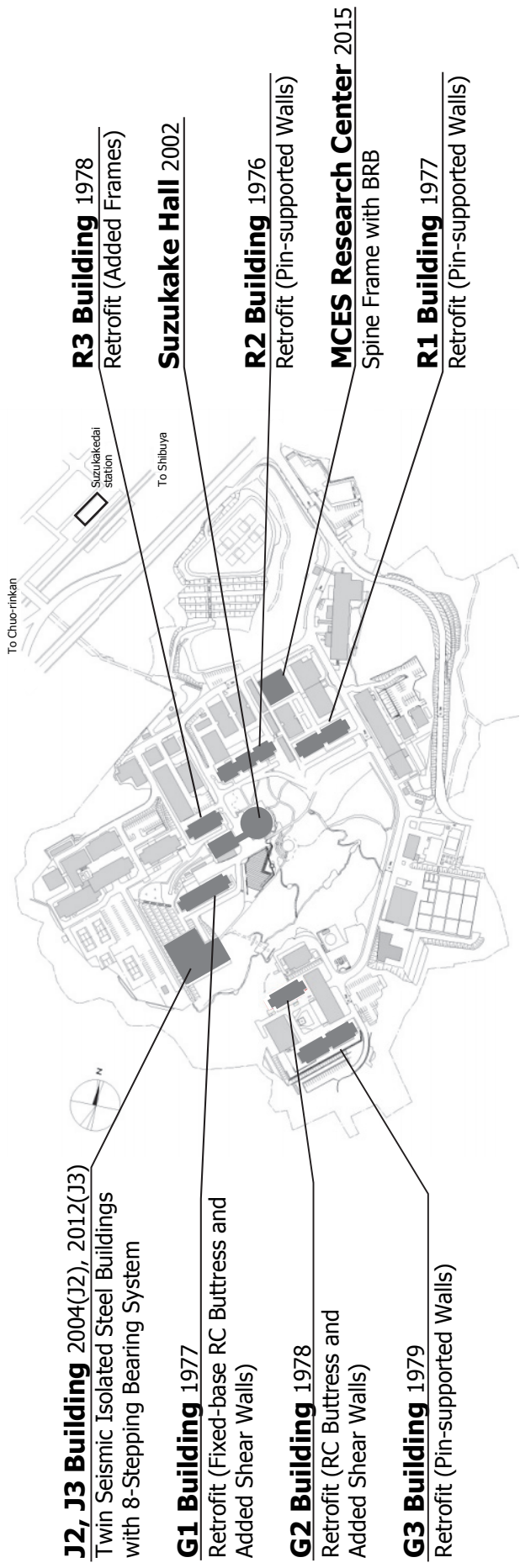
**10:00~ Tour (AM) Suzukakedai campus (Guides: Satoshi Yamada / Kazuhiro Matsuda)
Lunch**

13:30~ Tour (PM) O-okayama campus (Guides: Toru Takeuchi / Ryota Matsui)



Seismic design of buildings in the Suzukakedai Campus of Tokyo Institute of Technology

Seismic Design : Professors Midorikawa, Kasai, Motoyui, Takeuchi, Sakata, Yamanaka, Yamada and Professor Emeritus Wada



<p>J2, J3 Building</p> <p>Twin Seismic Isolated Buildings with 8-Stepping Bearing</p>	<p>G2 Building</p> <p>RC buttress and added shear walls</p>	<p>R3 Building</p> <p>Added frames</p>	<p>MCES Research Center</p> <p>Spine frame with BRB</p>
<p>G1 Building</p> <p>Fixed-base RC buttress and added shear walls</p>	<p>G3 Building</p> <p>Added shear walls Pin-supported walls</p>	<p>R2 Building</p> <p>Pin-supported walls</p>	<p>R1 Building</p> <p>Pin-supported walls</p>