

## **Workshop on International Collaboration for Pursuit of New Dimensions of Steel and Composite Structural Systems**

Organizer: Masayoshi Nakashima

Hazard Mitigation Division, Disaster Prevention Research Institute, Kyoto University

Dates: November 23, 2011

Place: Seminar Room 1 Obaku Plaza Disaster Prevention Research Institute, Kyoto University

### Objectives:

Recent experiences on natural disasters including the 2008 China earthquake and 2011 Tohoku earthquake clearly tell us that our built environment has to be more resilient. To achieve this, building structures shall be designed and constructed stronger and more durable. Many means are available to realize such structures, but those using new materials appear to be most promising. Then, the issues are what new materials are there and how they can be used. How to maintain the structures is another critical component for the achievement of resiliency in our built environment. Monitoring is indeed the means to answer, but up to know, nearly none of the monitoring techniques has been found successful when applied to building structures. Different approaches are needed to make it practicable.

With these backgrounds in mind, here organized is this one-day workshop. We want to discuss how we can challenge these issues, i.e., applications of new materials and monitoring to building structures, and more realistically what specific research plans are to be sought and how to realize the plans including the search of funding sponsors.

### Schedule:

Time	Detail	Contents
09:00~10:30	Technical Session 1	Topics presentations on <b>steel structures, monitoring, composite structures, and seismic isolation/control</b>
10:30~10:40	Break	
10:40~12:10	Technical Session 2	
12:10~13:30	Lunch	
13:30~16:00	Breakout Sessions	Group discussions and preparation of possible proposals for the four topics
16:00~17:00	Proposal Session	Introduction of proposals based on the discussion from the representatives of each group.
17:30~19:30	Party	Party including "Bonen-kai"

Presenters in Technical Sessions:

Technical Session 1		Technical Session 2	
Chairman	Hisatoshi Kashiwa	Chairman	Masahiro Ikenaga
Presenter	Taichiro Okazaki (G1)	Presenter	Mutsuyoshi Yoshizawa (G2)
	Tao Wang (G1)		Takuya Nagae (G3)
	Yuichi Matsuoka (G1)		Nariaki Nakayasu (G3)
	Takashi Akazawa (G2)		Tsuyoshi Hikino (G4)
	Akihiro Kusaka (G2)		Dawei Liu (G4)
	Xiadong Ji (G2)		Peng Pan (G4)

\* Each presenter has 10minutes for presentation and 5 minutes for questions.

\* Each presenter has to choose just ONE TOPIC and highlight it with emphasis on possible collaboration with the industry and/or through inter-university efforts.

\* Language is a mixture of Japanese and English. Participants are free to choose whichever language they prefer.

Grouping in Breakout Sessions:

Group	<b>G1:Steel structure</b>	<b>G2:Monitoring</b>
Leader	Taichiro Okazaki	Takashi Akazawa
Recorder	Tao Wang	Xiadong Ji
Member	Yuichi Matsuoka	Akihiro Kusaka
	Mikiko Kato	Mutsuyoshi Yoshizawa
	Tomohiro Matsumiya	Hisatoshi Kashiwa
	Mai Ito	Ryuta Enokida
	Xuchuan Lin	Mayako Yamaguchi
	Yudai Taniguchi	

Group	<b>G3:Composite</b>	<b>G4:Seismic isolation/control</b>
Leader	Takuya Nagae	Tsuyoshi Hikino
Recorder	Yao Cui	Peng Pan
Member	Iori Kanao	Dawei Liu
	Nariaki Nakayasu	Masahiro Ikenaga
	Kazuaki Hoki	Yundong Shi
	Kazuhiro Hayashi	Michitaka Inami
	Yunbiao Luo	
	Ryusuke Enomoto	

Participants:

<From foreign countries>

Peng Pan	Tsinghua University
Tao Wang	Institute of Engineering Mechanics (IEM)
Xiadong Ji	Tsinghua University
Yao Cui	Tokyo Institute of Technology

<From industry>

Takashi Akazawa	Geo-Research Institute
Akihiro Kusaka	Kajima Corporation
Mikiko Kato	Nikken Sekkei
Dawei Liu	Daiwa House
Yuichi Matsuoka	Nippon Steel Engineering
Tsuyoshi Hikino	Nippon Steel Engineering
Mutsuhiro Yoshizawa	Takenaka Corporation
Nariaki Nakayasu	Nippon Steel

<From Japan>



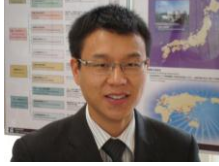


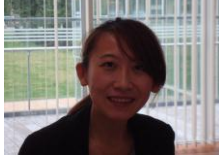

Iori Kanao	Kyoto Institute of Technology
Taichiro Okazaki	Hokkaido University
Takuya Nagae	NIED
Tomohiro Matsumiya	Kinki University
Masahiro Ikenaga	Tohoku University
Hisatoshi Kashiwa	Osaka University
Kazuaki Hoki	DPRI
Kazuhiro Hayashi	DPRI





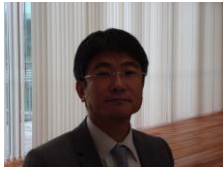




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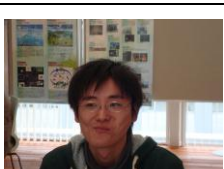

Mai Ito  
Ryuta Enokida  
Yundong Shi  
Xuchuan Lin  
Yunbiao Luo  
Michitaka Inami  
Yudai Taniguchi  
Ryusuke Enomoto  
Mayako Yamaguchi

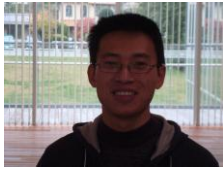

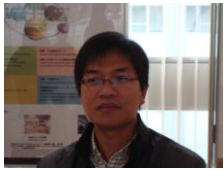
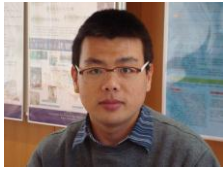
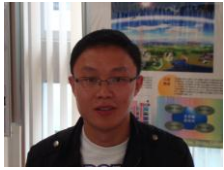
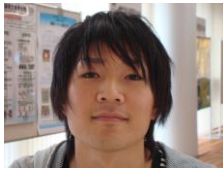



**Workshop on International Collaboration  
for Pursuit of New Dimensions of Steel and Composite Structural Systems  
November 23, 2011  
At DPRI, Kyoto University**

**List of Attendants**

name	affiliation	photo
<b>Masayoshi Nakashima</b>	<b>DPRI</b>	
<b>Masahiro Kurata</b>	<b>DPRI</b>	
<b>Peng Pan</b>	<b>Tsinghua University</b>	
<b>Tao Wang</b>	<b>Institute of Engineering Mechanics</b>	
<b>Xiadong Ji</b>	<b>Tsinghua University</b>	
<b>Yao Cui</b>	<b>Tokyo Institute of Technology</b>	
<b>Takashi Akazawa</b>	<b>Geo-Research Institute</b>	

<b>Akihiro Kusaka</b>	<b>Kajima Corporation</b>	
<b>Mikiko Kato</b>	<b>Nikken Sekkei</b>	
<b>Dawei Liu</b>	<b>Daiwa House</b>	
<b>Yuichi Matsuoka</b>	<b>Nippon Steel Engineering</b>	
<b>Tsuyoshi Hikino</b>	<b>Nippon Steel Engineering</b>	
<b>Mutsuhiro Yoshizawa</b>	<b>Takenaka Corporation</b>	
<b>Nariaki Nakayasu</b>	<b>Nippon Steel</b>	
<b>Iori Kanao</b>	<b>Kyoto Institute of Technology</b>	
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<b>Hisatoshi Kashiwa</b>	<b>Osaka University</b>	
<b>Kazuaki Hoki</b>	<b>DPRI</b>	
<b>Kazuhiro Hayashi</b>	<b>DPRI</b>	
<b>Mai Ito</b>	<b>Student</b>	
<b>Ryuta Enokida</b>	<b>Student</b>	
<b>Yundong Shi</b>	<b>Student</b>	

<b>Xuchuan Lin</b>	<b>Student</b>	
<b>Yunbiao Luo</b>	<b>Student</b>	
<b>Liusheng He</b>	<b>Student</b>	
<b>Lei Lu</b>	<b>Research Student</b>	
<b>Xiaohua Li</b>	<b>Research Student</b>	
<b>Michitaka Inami</b>	<b>Student</b>	
<b>Yudai Taniguchi</b>	<b>Student</b>	
<b>Ryusuke Enomoto</b>	<b>Student</b>	
<b>Mayako Yamaguchi</b>	<b>Student</b>	

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