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# Special Theme Session

## **10 year anniversary of the Japan Association for Earthquake Engineering Special theme session 1 "Damaging earthquakes over the past 10 years"**

Numerous damaging earthquakes have occurred both within and outside of Japan over the past ten years, marking the start of the 21st century. The type of damage varied considerably depending on the location of the epicenter, the nature of the earthquake motion that occurred and the state of the area sustaining the damage. In this session we will review the features of the respective damage from ten earthquakes occurring within and outside of Japan over the past ten years from a variety of perspectives encompassing the epicenter, the earthquake motion, the soil, the structures, machinery and equipment and the social response, and we will discuss issues that arose and how to deal with them in the future.

Date & Time	9:00-12:30, Nov. 19 (Fri.), 2010
Place	Main Convention Hall, Tsukuba International Congress Center
Chair	Yuki Sakai (University of Tsukuba)
Co-Chair	Kaori Fujita (University of Tokyo)
Opening Speech	Yuki Sakai (University of Tsukuba)
Closing Speech	Masayoshi Nakashima (Kyoto University)

- STS1-1** Overview of Earthquake Disaster in Tohoku District in Recent 10 Years Short Period and Large Accerelation Ground Motions in Relation to Building Damage  
Masato Motosaka (Tohoku University)
- STS1-2** Damage of Oil Storage Tanks Due to the 2003 Tokachi-Oki Earthquake and Countermeasures  
Shinsaku Zama (National Research Institute of Fire and Disaster) • Haruki Nishi • Ken Hatayama • Minoru Yamada • Yoshihiro Hirokawa
- STS1-9** Damage Due to the 2004 Indian Ocean Tsunami and Issues for Tsunami Mitigation in Future  
Fumihiko Imamura (Tohoku University)
- STS1-3** Overview of the Damage Caused by the October 23 2004, Chuetsu Earthquake and Problems Highlighted in Rehabilitations  
Kazuo Konagai (University of Tokyo)
- STS1-4** Strong Motions and Structural Damage during the Fukuoka-Ken Seiho-Oki Earthquake - Lessons Learned for the Future "Kego" Fault Earthquake  
Hiroshi Kawase (Kyoto University)
- STS1-5** Damages of Wood Buildings by the Noto Hanto Earthquake in 2007 and Others  
Naohito Kawai (Building Research Institute)
- STS1-6** Seismic Motion and Behavior of the Reactor Buildings during Niigataken Chuetsu-Oki Earthquake  
Katsuichirou Hijikata (Tokyo Electric Power Company)
- STS1-7** Geotechnical Disaster during the Iwate-Miyagi Nairiku Earthquake in 2008  
Motoki Kazama (Tohoku University)
- STS1-8** Lessons Learned from Damage to Buildings Due to the 2003 Bam, Iran and 2005 Kashmir, Pakistan Earthquakes  
Yasushi Sanada (Toyohashi University of Technology)
- STS1-10** The 2008 Wenchuan Earthquake Caused Damage and Japan-China Cooperation for Recovery and Reconstruction  
Masanori Hamada (Waseda University) • Xu Wu

## Special theme session 2

### "Trends and developments in earthquake engineering over the past 10 years"

While variety of new approaches have been taken in the field of earthquake engineering over the ten years marking the start of the 21st century, a number of problems, associated with social conditions, have surfaced, which we have had to confront while moving forward at the same time. In this session we will review the trends in the various fields of earthquake engineering over these past ten years and the ensuing developments, and, in turn, we will discuss issues, such as how coordination ideally should be from the perspective of the user, rather than the so-called conventional vertically divided response.

Date & Time	13:30-17:00, Nov. 19 (Fri.), 2010
Place	Main Convention Hall, Tsukuba International Congress Center
Chair	Nobuo Fukuwa (Nagoya University)
Co-Chair	Ryoichi Tamura (Shinozuka Research Institute)
Opening Speech	Nobuo Fukuwa (Nagoya University)
Closing Speech	Masayuki Takemura (Kobori Research Complex)

- STS2-1** Status Quo and Problems of Active Fault Survey Seen in Inland and Coastal Earthquakes in the Last Decade  
Yuichi Sugiyama (AIST)
- STS2-2** A New Development of the Japanese Research Program for Earthquake Prediction  
Naoshi Hirata (The University of Tokyo)
- STS2-3** Effect of Damage Estimation of Huge Earthquake Disaster and Some Issueses  
Itsuki Nakabayashi (Tokyo Metropolitan University)
- STS2-4** National Seismic Hazard Maps for Japan and Seismic Hazard Information Station  
Hiroyuki Fujiwara (National Research Institute for Earth Science and Disaster Prevention)
- STS2-5** E-Defense Activities and Its Development in the Future  
Koichi Kajiwara (National Research Institute for Earth Science & Disaster Prevention)
- STS2-6** Revision of the Technical Regulatios for Building Structures during the First Decade of this Century  
Hiroshi Fukuyama (Building Research Institute)
- STS2-7** Strong Ground Motion Forecast  
- The Present Situation and Future of Earthquake Early Warning -  
Shin' ya Tsukada (The University of Tokyo)
- STS2-8** Strong Motion Seismology and Applied Seismology in This Decade  
Koketsu Kazuki (University of Tokyo)
- STS2-9** Current Status of Seismic Design and Diagnosis for Wood House  
Hiroshi Isoda (Shinshu University)
- STS2-10** Development and Recent Application of Structural Control and Base Isolation Buildings  
Norihide Koshika (Kobori Research Complex, Inc.)
- STS2-11** Status and Trends of Seismic Design Technology and Research & Development Regarding Mechanical Structures and Facilities  
Satoshi Fujita (Tokyo Denki University)
- STS2-12** Eathquake Disater Mitigation Measures for Civilinfrastructures in the Past Decade  
Shigeki Unjoh (National Institute for Land and Infrastructure Management, MLIT)