International Workshop on establishment of prediction of strong ground motions and earthquake disaster of large earthquakes

February 20 – 21, 2015

        Friday,   February 20, 1330-1710

        Saturday, February 21, 0930-1510

Obaku plaza seminar rooms 4 and 5, Uji campus, Kyoto University

Program

Friday, February 20th

1330-1335

Opening Address

Iwata, Tomotaka

SESSION 1   1335-1505

Period-dependent seismic radiation for the 2011 Tohoku earthquake estimated by multi period-band waveform modeling

#Kubo, Hisahiko, Tomotaka Iwata, Kimiyuki Asano and Shin Aoi

Dynamic triggering between two faults during the 2010 Darfield, New Zealand, earthquake

#Tanaka, Miho, Kimiyuki Asano, Tomotaka Iwata and Hisahiko Kubo

Estimating seismic attenuation in sediments from deconvolution analysis of KiK-net borehole records

#Nakahara, Hisashi, Rintaro Fukushima, and Takeshi Nishimura

Identification of the velocity structure model of Kyoto basin for strong motion prediction using observed earthquake and microtremor motions

#Fukihara, Kei, Shinichi Matsushima and Hiroshi Kawase

SESSION 2   1525-1710

The Indirect Boundary Element Method (IBEM) for Seismic Response of Topographical Irregularities in Layered Media

Perton, Mathieu , Marcial A. Contreras-Zazueta, and #Francisco J. Sánchez-Sesma

Evaluations of the effects of the basin edge by using H/V spectral ratios of microtremors
#Fukuoka, Yuri, Shinichi Matsushima, Hiroshi Kawase, and Francisco J. Sánchez-Sesma

Estimation of S-wave underground structures in Myanmar using microtremors
#Hirokawa, Yuki, Shinichi Matsushima, Hiroshi Kawase,Tun Naing, and Myo Thant

Observation and simulation of interstation Green's functions obtained from continuous microtremor observation in the Osaka basin
#Asano, Kimiyuki, Tomotaka Iwata, Haruko Sekiguchi, Kazuhiro Somei, Ken Miyakoshi, Shin Aoi, and Takashi Kunugi

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1730-1900
Reception (Restaurant Kihada)

Saturday, February 21st

SESSION 3:   930-1100

Numerical shake prediction for Earthquake Early Warning: data assimilation, real-time shake-mapping, and simulation of wave propagation

#Hoshiba, Mitsuyuki, and Shigeki Aoki

S-wave impedance measurements of the uppermost material in ground surface layers: vertical load excitation on circular disk

#Goto, Hiroyuki, Nobuaki Tanaka, Sumio Sawada, and Hideki Inatani

Comparison of equivalent linear and nonlinear site response analysis: Results at small to large shear strains

#Carlton, Brian, and Kohji Tokimatsu

Site response of clay improved by deep soil mixing panels.

#Tamura, Shuji, Mohammad Khosravi, Ross W. Boulanger, Daniel W. Wilson, C. Guney Olgun, Deepak Rayamajhi, and Yongzhi Wang

SESSION 4:   1120-1230

Strong motion simulation of the 1987 Chiba-ken-toho-oki earthquake Using stochastic Green's function method empirically considering surface waves and scattering waves

Satoh, Toshimi

Attenuation characteristics of strong ground motion from the megathrust earthquakes in subduction zone - On the path effects –

#Si, Hongjun, Kazuki Koketsu, and Hiroe Miyake

Source scenarios of megathrust earthquakes and their application for broadband strong motion modeling

Pulido, Nelson

LUNCH TIME 1230-1330

SESSION 5:   **1330-1500**

Bulk simulation of ground motions for heterogeneous source models using reciprocity approach: example for the Nankai earthquake and Osaka Konohana site
Anatoly, Petukhin, and Haruko Sekiguchi

Spatial variations derived from microtremors and MASW method and their influence to strong motion characteristics
#Kosaka, Hiroyuki, Hiroshi Kawase, and Shinichi Matsushima

Comparison of earthquake and microtremor horizontal-to-vertical spectral ratios and its inversion to estimate velocity structures
#Mori, Yuta, Shinichi Matsushima, and Hiroshi Kawase

Underground structure identification and bedrock wave estimation based on horizontal/vertical ratio and borehole ratio
#Nagashima, Fumiaki, Hiroshi Kawase, and Shinichi Matsushima

1500-1510
Closing Remarks
Kawase, Hiroshi