

12th Joint Meeting of UJNR Panel on Earthquake Research

24th-26th October 2018,

Kumamoto City International Center, Kumamoto Prefecture, Japan

DRAFT PROGRAMME

Wednesday, October 24th

08:10-		Registration	
08:45		Opening: Welcome address by Panel Co-Chairs Shigenobu Kawasaki and Michael Blanpied	
		Announcement of general information	
Session 1: Session Chairs Joan Gomberg and Yushiro Fujii (15 minutes for Oral presentations include 3 minutes to discuss and switch presenters.)			
9:00	O-01	Joan Gomberg	U.S. Geological Survey Subduction Zone Science at Many Scales
9:15	O-02	Fuyuki Hirose	Simulation of the Great Earthquakes along the Nankai Trough: An Attempt to Simulate Event History, Slip Areas of the Showa Tonankai / Nankai Earthquakes, Heterogeneous Slip Deficit Rate Distribution, and Long-term Slow Slips
9:30	O-03	Eileen L. Evans	Imaging Cascadia coupling: optimal design for an offshore seafloor geodetic network
9:45	O-04	Keisuke Ariyoshi	Earthquake and Tsunami Researches in JAMSTEC
10:00	O-05	Makoto Matsubara	Small repeating earthquakes beneath the Tokai region from 1979 to 2017 derived from NIED Kanto-Tokai seismic network and the NIED Hi-net.
10:15-10:35		Break	
Session 2: Chairs Joan Gomberg and Yushiro Fujii			
10:35	O-06	Guy Gelfenbaum	Paleotsunami deposit evidence of distant source tsunamis in the Hawaiian Islands
10:50	O-07	Yushiro Fujii	Tsunami simulations and source inversions of recent earthquakes
11:05	O-08	Michael Angove	Techniques being developed to improve tsunami forecasts through near-real-time tsunami source characterization in the U.S.
11:20	O-09	Marco Pilz	Ground motion forecasting using a reference station and complex site response functions accounting for the shallow geology
11:35	O-10	Satoshi Abe	Real-time coseismic fault model estimation system "REGARD" based on RTK-GNSS analysis in Japan
Poster Short Presentations 1: Poster Session Chair Tadafumi Ochi			
11:50	P-01	Shane Detweiler	The HayWired Scenario Rollout
11:52	P-02	Jayne Bormann	Characterizing hazard for low-slip-rate strike-slip faults offshore Southern California
11:54	P-03	Ryohei Sasajima	Numerical modeling of crustal deformation and stress in the Northeast Japan island arc associated with the 2011 Tohoku earthquake

11:56	P-04	Kei Ioki	Reconstruction of the shoreline in the 13th and 17th century at Kiritappu marsh, eastern Hokkaido, Japan
11:58	P-05	William Frank	Low-frequency earthquakes describe the slow slip that drives them
12:00	P-06	Tadafumi Ochi	Relation between coupling and tremor activity around the Shikoku region: An insight into the roots of tremors
12:02	P-07	Heidi Houston	Slow slip and tremor in northern Cascadia: Implications for along-dip trends in stress and strength
12:04	P-08	Shinzaburo Ozawa	Time dependent block fault modeling of Japan
12:06	P-09	Jeanne Sauber	A synoptic view of subduction zone earthquakes and geophysical processes from GRACE/GRACE-FO
12:08	P-10	Kazuki Miyaoka	An Outline of The 2018 Hokkaido Eastern Iburi Earthquake (M6.7)
12:10	P-11	Tomokazu Kobayashi	Crustal deformation and fault model of the 2018 Hokkaido Eastern Iburi earthquake
12:12	P-12	Satoshi Fujiwara	Local surface deformation of 2018 Hokkaido Eastern Iburi earthquake detected by ALOS-2 SAR
12:20-13:20	Lunch Break		
13:20-14:20	Poster Session 1		
Session 3: Session Chairs Mitsuyuki Hoshihara and Andrea Llenos			
14:30	O-11	Yusuke Yokota	GNSS-A seafloor geodetic data observed before 2018
14:45	O-12	Hiroaki Tsushima	Real-time forecasting of near-field tsunamis using offshore tsunami data
15:00	O-13	Mitsuyuki Hoshihara	Earthquake early warning using Numerical Shake Prediction based on wavefield estimation approach: Inland earthquakes and subduction earthquakes
15:15	O-14	Yuki Kodera	Earthquake early warning based on wavefield estimation approaches incorporating P-waves and ground motion prediction equations: toward the improvement of the PLUM method
15:30	O-15	Keishi Noguchi	Installed New Methods and Future Prospects of Earthquake Early Warning by Japan Meteorological Agency
15:45-16:05	Break		
Session 4: Session Chairs Mitsuyuki Hoshihara and Andrea Llenos			
16:05	O-16	Art McGarr	Challenges of reducing the hazard of injection-induced seismicity
16:20	O-17	Andrea Llenos	Improving Earthquake Rate Models for 1-Year Hazard Forecasts from Induced Seismicity in the Central and Eastern US
16:35	O-18	Gregory C. Beroza	Mining Seismic Wavefields
16:50	O-19	Kazutoshi Imanishi	Non-double-couple component of fluid-related earthquakes
17:05-17:15	Announcement & Group Photo		
18:00-	Reception Banquet (Buffet Restaurant Ginnan)		

Thursday, October 25th

08:10-09:00	Registration		
	Announcement of general information		
Session 5: Session Chairs Kohei Nagata and Kate Allstadt			
09:00	O-20	Michael Blanpied	Recent Activities of the USGS Earthquake Hazards Program
09:15	O-21	Naoshi HIRATA	Recent activities of the Earthquake Research Committee, the Headquarters for Earthquake Research Promotion, Japan (HERP)
09:30	O-22	David J. Wald	Case Studies of Financial Decision-Making using Near-Real-time Earthquake Information
09:45	O-23	Kohei NAGATA	The Nankai Trough Earthquake Information: an interim measure in transition from "The Tokai Earthquake Prediction"
10:00	O-24	John Vidale	A SCEC CyberShake Physics-Based Probabilistic Seismic Hazard Model for California
10:15-10:35	Break		
Session 6: Session Chairs Kohei Nagata and Kate Allstadt			
10:35	O-25	Kate Allstadt	Near-Real-Time Ground Failure Estimates: A New USGS Real-time Earthquake Product
10:50	O-26	Morgan P. Moschetti	Incorporating long-period ($T > 1$ s) ground motions from 3D simulations into the U.S. National Seismic Hazard Model
11:05	O-27	Julian Lozos	The Effect of Along-Strike Variation in Dip on Rupture Propagation on Strike-Slip Faults
11:20	O-28	Morgan Page	Extreme Fault Connectivity and What It Means for Seismic Hazard Models
11:35	O-29	Tom Brocher	Are we still seeing aftershocks of the $M \sim 6.8$ 1872 Central Washington State earthquake?
Poster Short Presentations 2: Poster Session Chair Takayuki Nakano			
11:50	P-13	Masayuki YOSHIMI	Seismic reflection surveys of the western and southern extensions (Futagawa and Hinagu active fault zone) of the 2016 Kumamoto earthquake source faults
11:52	P-14	Tomokazu Kobayashi	Crustal deformation of the 2016 Kumamoto earthquake sequence (1) - Foreshocks -
11:54	P-15	Hiroshi Yarai	Crustal deformation of the 2016 Kumamoto earthquake sequence (2) - Mainshock -
11:56	P-16	Satoshi Fujiwara	Crustal deformation of the 2016 Kumamoto earthquake sequence (3) - Small displacement linear surface ruptures detected by ALOS-2 SAR -
11:58	P-17	Takayuki Nakano	Crustal deformation of the 2016 Kumamoto earthquake sequence (4) - Geomorphological and geological settings of triggered surface ruptures -
12:00	P-18	Tomokazu Kobayashi	Crustal deformation of the 2016 Kumamoto earthquake sequence (5) - Postseismic deformation (GNSS and InSAR observations) -
12:02	P-19	Hisashi Suito	Crustal deformation of the 2016 Kumamoto earthquake sequence (6) - Postseismic deformation (viscoelastic model) -

12:04	P-20	Yasuo Awata	Detailed surface rupture map of the 2016 Kumamoto earthquake sequence
12:06	P-21	Maya Ueda	Release of 1:25,000 Active Fault Map “Aso” and “Kumamoto”: Futagawa-Hinagu Fault Zone and its vicinity(1) : - Overview -
12:08	P-22	Takaki Yamanaka	Features of 1:25,000 Active Fault Map “Aso” and “Kumamoto”: Futagawa-Hinagu Fault Zone and its vicinity(2) : - Major Features -
12:10	P-23	Tomoko Elizabeth Yano	The 2018 Osaka Earthquake with non--double-couple components
12:12	P-24	Yoshiki Shirahama	Paleoseismic history revealed by two trench investigations across surface ruptures appeared associated with the 2016 Kumamoto Earthquake
12:14	P-25	Tomoko Elizabeth Yano	Seismicity before and after the 2016 Kumamoto earthquake sequence
12:20-13:20	Lunch Break		
13:20-14:30	Poster Presentation 2		
Session 7: Session Chairs Ting Lin and Takahiko Uchide			
14:30	O-30	Ting Lin	Infrastructure resilience against multiple hazards: from earthquakes to sea-level rise
14:45	O-31	Yadab P. Dhakal	Effect of near source velocity structures on the long-period ground motions: comparison of the observed ground motions between two moderate magnitude earthquakes in the Nankai trough subduction zone
15:00	O-32	Nori Nakata	Precursory dynamic triggering as an indicator of the rupture in the 2016 Mw7.0 Kumamoto Earthquake Sequence
15:15	O-33	Tomotaka Iwata	Near-source fault strong ground motion characteristics of the 2016 Kumamoto earthquake
15:30-15:50	Break		
15:50	O-34	Takahiko Uchide	Rupture Processes and Geophysical Background of the 2011 and 2016 Northern Ibaraki Prefecture Earthquakes
16:05	O-35	Kazuhiro Ichijo	Overview of the 2016 Kumamoto Earthquake Sequence
16:20	O-36	Shinji Toda	Widespread complex surface rupture associated with the Mw 7.0 16 April 2016 Kumamoto, Japan, earthquake
16:35	O-37	Koji Tamaribuchi	Real-time monitoring of the 2016 Kumamoto Earthquake sequence by new automatic hypocenter determination method
16:50-17:20	Adoption of resolution by the drafting committee members Closing remarks by Shigenobu Kawasaki and Michael Blanpied		
Friday, 26th October 【Field Trip】			
08:30	Meeting place: in front of Kumamoto City International Center		
10:00-10:50	Stop 1 : Surface rupture at Dozono, Mashiki town		
12:00-14:00	Stop 2 : Mt. Aso		
14:30-15:00	Stop 3 : Huge landslide and new Aso-Ohashi Bridge construction site		
15:40-16:00	Kumamoto Airport		
17:00	Kumamoto City International Center		