

## ETH Zurich-Japan Joint Symposium on Earthquake Engineering 2019

2 - 4 December 2019

ETH Zurich, Switzerland

## Schedule

Coordinator: Prof. Dr. I. Anastasopoulos





Dinner at Zeughauskeller

20:00

## **Detailed Schedule**

Monday, 2 I	Decemb	per 2019 (HIL C 10.2)	
12:30	Registr		
13:00	Welcome & Introduction Prof. Ioannis Anastasopoulos, ETH Zurich		
	Opening Address Prof. Junji Kiyono, Kyoto University		
13:20	Session 1 (Chair: Prof. Ioannis Anastasopoulos)		
	13:20	Prof. Junji Kiyono, Kyoto University Vehicle Behavior on Highway Bridge during an Earthquake	
	13:40	Prof. Bozidar Stojadinovic, ETH Zurich  Modelling Post-Earthquake Recovery of Civil Infrastructure Systems and Communities	
	14:00	Prof. Fumio Yamazaki, Chiba University Development of fragility curves of Japanese buildings based on the 2016 Kumamoto earthquake	
	14:20	Prof. Katrin Beyer, EPFL Seismic assessment of stone masonry buildings – from shake table tests of entire buildings to detailed micro-models of isolated elements	
	14:40	Prof. Hisakazu Sakai, Hosei University Development of SPH-DEM Coupling Method for Seismic Simulation of Stone Masonry Wall	
15:00	Coffee	fee Break	
15:20	Session 2 (Chair: Prof. Junji Kiyono)		
	15:20	Prof. Michalis Vassiliou, ETH Zurich Statistical validation of structural models in Earthquake Engineering: From rocking blocks to 3D printed small scale structures	
	15:40	Prof. Takao Hashimoto, Kokushikan University  Analysis of damage to stone walls in Kumamoto Castle by the 2016 Kumamoto earthquake, and results of large shaking table test	
	16:00	Dr. Andreas Stoecklin, ETH Zurich Sedimentation, seismic triggering and post-failure evolution submarine landslides	
	16:20	Dr. Toshikazu Ikemoto, Kanazawa University  Collapse behavior of the castle's stone masonry during the 2016 Kumamoto earthquake	
	16:40	Dr. Thomas Weber, ETH Zurich, Studer Engineering  Marmorera Dam Case Study - Identification of dynamic soil properties for earthquake safety assessment	
17:00	Lab tour		
18:14	ETH Link to Hotel Bristol (Haldenegg)		

Tuesday, 3 December 2019 (HIL B 18.2)					
09:00	Sessio	Session 3 (Chair: Dr. Orestis Adamidis)			
	09:00	Prof. Masakatsu Miyajima, Kanazawa University Geodisasters induced by the 2018 Sulawesi Island Earthquake in Indonesia			
	09:20	Prof. Dimitrios Lignos, EPFL Research on seismic resistant steel and composite structures with emphasis on collapse			
	09:40	Prof. Takanobu Suzuki, Toyo University Response properties of strong ground motion in epicenter region			
	10:00	Dr. Alexandru Marin, ETH Zurich Widening of existing bridges: Pile group retrofit vs. plastic design			
	10:20	Lampros Sakellariadis, ETH Zurich Kobe 1995 Fukae bridge collapse: actual pilegroup vs. nonlinear SSI			
10:30	Coffee	Coffee Break			
11:00	Sessio	Session 4 (Chair: Prof. Hisakazu Sakai)			
	11:00	Prof. Tetsuo Tobita, Kansai University LEAP-ASIA-2019: Validation of centrifuge experiments and generalized scaling law on liquefaction-induced lateral spreading			
	11:20	Dr. Orestis Adamidis, ETH Zurich Liquefaction susceptibility under constant inflow rate			
	11:40	Prof. Masaho Yoshida, National Institute of Technology, Fukui College Study on liquefaction countermeasure technique using logs based on field investigation and shaking table test			
	12:00	Kostas Kassas, ETH Zurich Numerical modelling of a structure with shallow strip foundation during earthquake- induced liquefaction			
	12:10	Liam Jones, ETH Zurich Physical modelling of geotechnical systems exposed to extreme hydraulic events			
12:20	Lunch	Lunch Break			
14:00	Sessio	Session 5 (Chair: Dr. Alexandru Marin)			
	14:00	Max Sieber, ETH Zurich Unconventional foundation design: simplified methods for rocking isolation			
	14:10	Weifeng Wu, ETH Zurich, Tongji University  Experimental and numerical study on seismic behavior of subway station structures in Shanghai, China			
	14:20	Prof. Maki Koyama, Gifu University Rescue Operations at Collapsed Houses in the 2016 Kumamoto Earthquake, Japan			
	14:40	Athanasios Agalianos, ETH Zurich  Experimental study of the interaction of slab foundations with emerging strike-slip faults on dense sand			

14:50 Simone Alber, ETH Zurich

Geotechnical applications for 3D printed granular media

15:00 Prof. Aiko Furukawa, Kyoto University
 Proposal of tension estimation technique for a cable with a damper using natural frequencies

 15:20 Prof. Ioannis Anastasopoulos, ETH Zurich

Design against faulting: new developments

15:40 **Discussion and final remarks** 

16:00 Photo Session and Closure

## Wednesday, 4 December 2019 (HIL B 18.2)

10:00	Meeting on Future Research Collaboration
12:00	Lunch Break
13.00	Ontional Tour: Construction Site Visit: HIF Extension