



CONFERENCE PROGRAM

12 June 2017	
8:00-8:30	Registration
8:45-9:00	Welcome Address by the Rector of the University of Iceland: Jón Atli Benediktsson (Hall Bratti in Stakkahlíð)
9:10-9:40	Keynote Lecture: Polat Gülkan Genealogy of Performance-Based Seismic Design: Is the Present a Re-Crafted Version of the Past? Polat Gülkan, Meter A. Sözen
9:40-10:10	Keynote Lecture: Michael Fardis Synergies and conflicts between seismic design and design for other extreme actions
	Session 1 - Earthquake Engineering I, Moderator: Michael Fardis
10:15-10:30	Challenges in modelling the seismic response of RC walls Tatjana Isakovic , M Fischinger (Presenting)
10:30-10:45	Experimental Study of New Angle Steel Buckling Restrained Braced Restrained Ahmad Fayed Ghowsi, Dipti Ranjan Sahoo (Presenting)
10:45-11:00	Seismic Design Procedure for Staggered Steel Plate Shear Wall A. Verma , D. R. Sahoo (Presenting)
11:00-11:30	Coffee Break
11:30-12:00	Keynote Lecture: Atilla Ansal A Simplified Approach for Site Specific Design Spectrum Atilla Ansal, G Tönük, A. Kurtuluş
	Session 2 - Soil dynamics and site effects, Moderator: Atilla Ansal
12:00-12:15	New Design Spectral Acceleration of Soft and Deep Deposits in Bangkok N. Poovarodom (Presenting), A. Jirasakjamroonsri, T. Ornthammarath , P. Warnitchai
12:15-12:30	Application of MASW in the South Iceland Seismic Zone Elín Ásta Ólafsdóttir (Presenting), Bjarni Bessason, Sigurður Erlingsson
12:30-12:45	Seismic Response Control of Isolated Bridges Including Soil-Structure Interaction S. Elias, V. Matsagar (Presenting)
12:45-14:00	Lunch
14:00-14:30	Keynote lecture: Andreas J Kappos The dynamic intelligent bridge: A new concept in bridge dynamics
	Session 3 - Structural dynamics, Moderator: Pennung Warnitchai
14:30-14:45	Ambient vibration testing of a 3-storey substandard RC building at different levels of structural seismic damage P. Inci (Presenting), C. Goksu, U. Demir, A. Ilki
14:45-15:00	Comparison of Ground Motion Pulse Models for Seismic Response of Seismically Isolated Liquid Storage Tanks S. Öncü-Davas, H. Gazi, E. Güler, C. Alhan (Presenting)
15:00-15:15	System Identification of a Residential Building in Kathmandu Using Aftershocks of 2015 Gorkha Earthquake and Triggered Noise Data Y. Sawaki (Presenting), R. Rupakhety, S. Olafsson, D. Gautam
15:15-15:30	Seismic Rehabilitation of Masonry Heritage Structures with Base-Isolation and FRP Laminates – A Case Study Comparison S. Petrovčić (Presenting), V. Kilar
15:30-16:00	Coffee Break
16:00-16:30	Keynote Lecture: Carlos Oliveira New Tools for the Analysis of the Generalized Impact Earthquake Events Carlos Sousa Oliveira, Mónica A. Ferreira, F. Mota Sá, J. Bonacho
	Session 4 - Earthquake Disaster Prevention and Mitigation, Moderator: Carlos S Oliveira
16:30-16:45	Urban Disaster Prevention Strategies in the UPStrat-MAFA project: from risk analysis to education G. Musacchio (Presenting), M. A. Ferreira, F. Meroni, R. Rupakhety, C. S. Oliveira, G. Zonno
16:45-17:00	Is perception of earthquake effects gender dependent Ragnar Sigbjörnsson, Sólveig Ragnarsdóttir, Rajesh Rupakhety (Presenting)
17:00-17:15	Factors affecting the speed and quality of post disaster recovery and resilience Stephen Platt (Presenting)
17:15-17:30	Systematic methodology for planning and evaluation of a multi-source geohazard monitoring system. Application of a reusable template. Fjóra G. Sigtryggsdóttir (Presenting), Jónas Th. Snæbjörnsson
17:30-19:00	Welcome reception, Stakkahlíð, 105 Reykjavik



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13 June 2017	
8:30-9:00	Keynote Lecture: Jónas Eliasson Initial wave height and total energy of landslide generated tsunamis from translatory wave theory
9:00-9:30	Keynote lecture: Sveinn Remseth, to be delivered by Anders Rönnquist Simulation and monitoring of floating bridge behaviour K.A. Kvåle, O. Øiseth, A. Rönnquist, S. Remseth
	Session 5 - Structural dynamics of bridges I, Moderator: Jónas Th. Snæbjörnsson
9:30-9:45	Full-scale measurement and analysis of wind-induced vibrations of a long-span suspension bridge in complex terrain Aksei Fenerci (Presenting), Ole Øiseth
9:45-10:00	On Stochastic Dynamic Second-order Response Analysis of Marine Bridges Bernt Leira (Presenting)
10:00-10:15	Finite element model updating of a long span suspension bridge Ø.W. Petersen (Presenting), O. Øiseth
10:15-10:30	Characterization of the wave field around an existing end-supported pontoon bridge from simulated data K.A. Kvåle (Presenting), O. Øiseth
10:30-10:45	Identification of Rational Functions with a forced vibration technique using random motion histories Bartosz Siedziako (Presenting), Ole Øiseth
10:45 -11:30	Coffee Break
11:30-12:00	Keynote Lecture: Amr Elnashai Cases and Models of Fire Following Earthquakes
	Session 6 -Lessons from past earthquakes, Moderator: Benedikt Halldórsson
12:00-12:15	How to survive earthquakes: the example of Norcia M Lopes (Presenting), F. Mota de Sá, M. A. Ferreira, C. S. Oliveira, C. F. Oliveira, F. Meroni, T. Squarcina, G. Musachhio
12:15-12:30	Monitoring and Damage Detection of a 70-year-old Suspension Bridge -Ölfusá Bridge in Selfoss, Case Study Guðmundur Valur Guðmundsson (Presenting), Einar Thor Ingólfsson, Kristján Uni Óskarsson, Bjarni Bessason, Baldvin Einarsson, Aron Bjarnason
12:30-12:45	Damage observations following the Mw 7.8 2016 Kaikoura earthquake D. Dizhur (Presenting), M. Giaretton, J. Ingham
12:45-13:00	Performance of base isolated bridges in recent South Iceland earthquakes Bjarni Bessason (Presenting), Einar Hafliðason, Guðmundur Valur Guðmundsson
13:00-14:15	Lunch
14:30-15:00	Keynote Lecture: Athol J Carr Inherent damping in nonlinear time-history analyses. A recommended modelling approach Athol J. Carr, Arun M. Puthanpurayil
	Session 7 - Seismic analysis and design, Moderator: Bjarni Bessason
15:00-15:15	Cyclic capacity of dowel connections T. Isakovic (Presenting), B. Zoubek, M. Fischinger
15:15-15:30	Ductile Knee-Braced Frames for Seismic Applications S. Leelataviwat (Presenting), P. Doung, E. Junda, W Chan-anan
15:30-15:45	Seismic Capacity Reduction Factors for a RC Beam and two RC Columns Barlek Mendoza (Presenting), Pablo Mariano
15:45-16:00	Single-Degree-of-Freedom Analytical Predictive Models for Lead-Core Bearing Devices T.A. Zhelyazov (Presenting)
16:00-16:30	Keynote Lecture: Peter Fajfar Floor spectra for analysis of acceleration-sensitive equipment in buildings Vladimir Vukobratović, Peter Fajfar
18:30-22:00	Conference dinner, lðnó (Vonarstræti 3, 101 Reykjavík)



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14 June 2017	
	Session 8 - Engineering seismology, Moderator: Símon Ólafsson
8:30-8:45	On the manifestation of ground motion model differences on seismic hazard in North Iceland M. Kowsari (Presenting), B. Halldórsson, J. Th. Snæbjörnsson
8:45-9:00	Bayesian Heirarchical model of peak ground acceleration for the Icelandic strong-motion arrays S. Rahpeyma (Presenting), B. Halldórsson, B. Hrafnkelsson
9:00-9:15	Towards an automated Kappa measurement procedure T. Sonnemann (Presenting), B. Halldórsson
9:15-9:30	Surface strain rate tensor field for Iceland based on a GPS network Ragnar Sigbjörnsson, Jonas Thor Snæbjörnsson (Presenting), G. Valsson, Th. Sigurðsson, R. Rupakhety
9:30-10:00	Coffee Break
10:00-10:30	Keynote Lecture: Roger Musson Maximum magnitude in intraplate areas: The case for the British Isles
	Session 9 - Earthquake engineering II, Moderator: Rajesh Rupakhety
10:30-10:45	The Ranges of Uncertainty among the Use of NGA-West1 and NGA-West 2 Ground Motion Prediction Equations T. Ornthammarath (Presenting), P. Warnitchai
10:45-11:00	Determination of parameters for stochastic strong motion models representing earthquakes in the South Iceland Seismic Zone Simon Ólafsson (Presenting), Ragnar Sigbjörnsson, Rajesh Rupakhety
11:00-11:15	Vulnerability of Icelandic residential buildings Bjarni Bessason (Presenting), Rajesh Rupakhety
11:15-11:30	The Evaluation of Nonlinear Seismic Demands of RC Shear Wall Buildings using a Modified Response Spectrum Analysis Procedure Fawad Ahmed Najam, Pennung Warnitchai (Presenting)
11:30-11:45	Closing speech: Dean of School of Engineering and Natural Sciences Universty of Iceland, Hilmar Bragi Janusson
11:45-13:00	Lunch
	Special session I: KNOWRISK project, moderator: Gemma Musachchio
13:00-13:15	From seismic input to damage scenario: an example for the pilot area of Mt. Etna volcano (Italy) in KnowRISK Project R. Azzaro (Presenting), S. D'Amico, H. Langer, F. Meroni, T. Squarcina, G. Tusa, T. Tuvè, R. Rupakhety
13:15-13:30	Seismic performance of non-structural elements assessed through shake table tests: The KnowRISK room set-up P. Candeias (Presenting), M. Vicente, R. Rupakhety, M. Lopes, M. A. Ferreira, C. S. Oliveira
13:30-13:45	KnowRISK on Seismic Risk Communication: the set-up of a participatory strategy G. Musacchio (Presenting), S Falsaperla, G. L. Piangiamore, S. Solarino, M. Crescimbene, N. A. Pino, E. Eva, F. Manzoli, M. Butturi, M. Fabbri, M. Accardo
13:45-14:00	Seismic risk communication: how to assess it? The case of Lisbon pilot-area. D. Sousa e Silva (Presenting), A. Pereira, M.Vicente, R. Bernardo, M. A. Ferreira, M. Lopes, C. S. Oliveira
14:00-14:15	Shaping favorable beliefs to seismic protection through risk communication: A pilot-experience in two Lisbon (Portugal) schools D. Sousa e Silva, M. Vicente (Presenting), A. Pereira, R. Bernardo, P. Candeias, M.A. Ferreira, M. Lopes, C.S. Oliveira, P. Henriques
14:15-14:45	Coffee Break
14:45-16:15	Discussion with stakeholders, moderator: Mário Lopes
	Special session 2: KNOWRISK project, moderator: Delta Silva
16:15-16:30	The participatory risk communication action of the KnowRISK project: Italy G.L. Piangiamore (Presenting), E. Eva, G. Musacchio
16:30-16:45	Between Perception and Knowledge: the construction of the Italian questionnaire to assess the KnowRISK Project actions Massimo Crescimbene, Nicola Alessandro Pino (Presenting), Gemma Musacchio
16:45-17:00	Development of a common (European) tool to assess earthquake risk communication Stephen Platt (Presenting), Gemma Musacchio, Massimo Crescimbene, Nicola Alessandro Pino, Delta S. Silva, Mónica A. Ferreira, Carlos S Oliveira, Mário Lopes, Rajesh Rupakhety
17:00-17:15	KnowRISK Practical Guide for non-structural earthquake risk reduction H O'Neill, M. A. Ferreira, C. S. Oliveira, M. Lopes, S. Solarino (Presenting), G. Musacchio, P. Candeias, M. Vicente, D. S. Silva
17:15-17:30	Awareness on Seismic Risk: How can Augmented Reality help? D. Reitano (Presenting), S. Falsaperla, G. Musacchio, R. Merenda
17:30-17:45	Numerical modeling of overturning of building contents Guðmundur Örn Sigurðsson (Presenting), Rajesh Rupakhety, Símon Ólafsson