

**FIFTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN
GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS AND
SYMPOSIUM IN HONOR OF PROFESSOR I. M. IDRIS
SAN DIEGO, CA – MAY 24-29, 2010
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Jonathan Brady Brady Cox Jonathan Stewart (USA) Francesco Silvestri (Italy) Rob Kayen (USA) Kazuo Konagai (Japan) David Frost William Holmes Ellen Rathje (USA)	Panel Discussion
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Giuseppe Modoni Anna Gazzellone (Italy)	Theoretical Evaluation of Compaction Effects on the Seismic Response of Gravels 1.28a
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J.M. Kate (India)	Influence of Saturation on Dynamic Elastic Constants for Sandstones 1.30a

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S. M. Mir Mohammad Hosseini Mojde Asadolahi Pajouh F. Mir Mohammad Hosseini (Iran)	The Limitations of Equivalent Linear Site Response Analysis Considering Soil Nonlinearity 3.02b
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Wassel Al-Bodour Jamal Nusairat Muhsin Balwan (USA)	Three Dimensional Non-Linear Analyses of the Site-Specific Ground Response for Different Locations in SHARJA- United Arab Emirates 3.04b
Hing-Ho Tsang (Hong Kong) M. Neaz Sheikh Srikanth Venkatesan Nelson T. K. Lam (Australia)	Displacement Design Spectrum Model Accounting for Non-Linear Site Effects 3.05b
Zdravko Bonev Petov Gloria Nakova-Petkova (Bulgaria)	Simplified Seismic Demands Evaluation: Performance Based Approach Including Soil Conditions 3.06b
Chang-Gyun Jeong Dong-Yeop Kwak Duhee Park Bang Woong Shin (Korea)	Evaluation of Frequency Dependent Equivalent Linear Analysis 3.07b
S. Krishna Kumar A. Boominathan (India)	Site Specific Seismic Analysis of a Deep Stiff Soil Site 3.08b

Fabian Bonilla (France) Francesca Bozzano (Italy) Celine Gélis (France) Annachiara Giacomi (Italy) Luca Lenti (France) Salvatore Martino (Italy) Jean-François Semblat (France)	Multidisciplinary Study of Seismic Amplification in the Historical Center of Rome, Italy 3.09b
Tian-yu Wang Ming-Shin Tsai Shu-Yeong Chi Jin-Ching Chern (Taiwan R.O.C.)	The Implementation of Effective Stress Approach on Liyutan Dam 3.10b
Maria Paola Santisi d'Avila Ali Gandomzadeh Luca Lenti Jean-François Semblat Fabian Bonilla (France)	Non Linear Site Effects: Interest of One Dimensional - Three Components (1D – 3C) Formulation 3.12b
Luca Lenti Jean-François Semblat Nicolas Delépine Guy Bonnet (France)	Strong Ground Motion Modeled by an Extended Nonlinear “NCQ” Model (“e-NCQ”) 3.13b
Javad Ghanefar Behrouz Gatmiri (Iran)	Hybrid Two-Dimensional Fem / Bem Dynamic Analysis of Linear & Nonlinear Saturated Porous Media 3.14b
Mustafa K. Koçkar Haluk Akgün (Turkey)	Evaluation of Local Site Conditions Using Ambient Seismic Noise Recordings: A Case Study from Ankara, Turkey 3.15b
Frank Rackwitz (Germany)	Fully Coupled Non-Linear Earthquake Analyses 3.16b
Kohji Tokimatsu Takehiro Okumura (Japan)	Effects of Local Soil Conditions on Damage to Wooden Houses in the 2007 Noto-Hanto Earthquake 3.17b
R. Uma Maheswari A. Boominathan G.R. Dodagoudar (India)	Effective Stress Vs Total Stress Ground Response Analyses for a Typical Site in Chennai (India) 3.18b
Claudio di Prisco Federico Pisanò (Italy)	1D Dynamic Non-Linear Numerical Analysis of Earth Slopes: The Role of Soil Ductility and Time-Sensitiveness 3.19b

M'hammed Badaoui (France) Mounir Khaled Berrah (Algeria) Ahmed Mebarki (France)	Layers Heights Randomness Effect on Seismic Response of a Site in Algiers (Algeria) 3.20b
P. Anbazhagan Abhishek Kumar T.G. Sitharam (India)	Site Response Deep Sites in Indo-Gangetic Plain for Different Historic Earthquakes 3.21b
A. Ferraro Salvatore Grasso Michele Maugeri (Italy)	Topographic Site Effects Evaluation for the Monte Po Hill in the City of Catania (Italy) 3.22b
P. Heidarzadeh Azar A. J. Choobbasti (Iran)	Investigation of the Site-Effect of Babol City on the Seismic Motions of the Ground by Plastic Constitutive Model 3.23b
Olga-Joan Ktenidou Pitilakis Kyriazis Dimitris Raptakis (Greece)	Weak Motion Soil Amplification at Aegion, Greece, and Comparison with Seismic Design Codes 3.24b
L. Govindaraju Madhusudan S.S. Quadri (India)	A Study on the Seismic Response of Ground and Reinforced Concrete Buildings in Belgaum Region, India 3.25b
S.U. Dikmen (Turkey)	Effect of Depth of Ground Water Table on the Seismic Surface Response of Sand Deposits 3.26b

SESSION 4a	
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Raghvendra Singh Debasis Roy (India)	Residual Shear Strengths of Cohesionless Soils from Energy Approach 4.01a
T.G. Sitharam B.V. Ravishankar (India) J.S. Vinod (Australia)	A Note on the Effect of Non Plastic Fines on the Liquefaction and Reconsolidation Volumetric Strain Behaviour of Sands 4.02a
Mitchell W. Weber Alexandre J. Bredikhin (USA)	Static Load Induced Liquefaction, Steels Corners Road Embankment Failure 4.03a
Prishati Raychowdhury Samit Ray-Chaudhuri (USA)	Probabilistic Liquefaction Potential Evaluation Considering Soil Spatial Variation 4.04a
Peter K. Robertson Lisheng Shao (USA)	Estimation of Seismic Compression in Dry Soils using the CPT 4.05a
Sarfraz Ali Liaqat Ali (Pakistan)	Geotechnical Aspects of Recent Pakistan Earthquakes 4.06a
Chihping Kuo Muhsiung Chang (Taiwan R.O.C.)	Verification of Potential Flaws in Computing Liquefaction Potential Index by 1999 Chi-Chi Earthquake in Taiwan 4.07a
Omid Naemifar S. Shahaboddin Yasrobi (Iran)	A Study of Effective Factors on the Behavioural Characteristics of Clayey Sands 4.08a
George Papathanassiou Sotiris Valkaniotis Spyros Pavlides (Greece)	Assessment of Liquefaction Susceptibility of Geological Units in the Area of Gulf of Corinth, Greece 4.09a
Zenon Aguilar (Peru) Jorge Meneses (USA)	Evaluation of Liquefaction and Associated Damage Induced by the 2007 $M_w=8.0$ Pisco Earthquake to a Near-Source Coastal City in Peru 4.10a
Tianfei Liao Paul W. Mayne (USA)	Estimating Seismic Parameters Associated with Previous Earthquakes by SCPTU Soundings in the NMSZ 4.11a
Sarat Kumar Das (India)	Prediction of Lateral Displacement of Liquefaction Induced Ground Using Extreme Learning Machine 4.12a
Mahmood Seid-Karbasi Peter Byrne (Canada)	Optimum Depth of Seismic Drains for Mitigating Large Deformations in Liquefied Ground With Hydraulic Barrier 4.13a

Gordon Tung-Chin Kung Der-Her Lee Pai-Hsiang Tsai (Taiwan R.O.C.)	Examination of Existing DMT-Based Liquefaction Evaluation Methods by Site-by-Site DMT and CPT Tests 4.14a
Daniela Porcino Vincenzo Marciànò (Italy)	CPT Liquefaction Resistance Correlation of a Calcareous Sand Based on Calibration Chamber and Cyclic Simple Shear Tests 4.15a
S. R. Pathak R. S. Dalvi A. D. Katdare (India)	Earthquake Induced Liquefaction Using Shake Table Test 4.16a
Shamsher Prakash Vijay K. Puri (USA)	Recent Advances in Liquefaction of Fine Grained Soils 4.17a
Suzan S. Salem K. M. ElZahaby (Egypt)	Application of General Regression Neural Networks (GRNNs) in Assessing Liquefaction Susceptibility 4.18a
P. Bhattacharya S. P. Mukherjee Biswajit Das (India)	Prediction of Liquefaction Potential for Kolkata Region by Semi-Empirical Method 4.19a
Roger Torres (USA)	Ground Motions and Liquefaction 4.20a
Kodi Rangaswamy A. Boominathan K. Rajagopal (India)	Undrained Response and Liquefaction Behaviour of Non-Plastic Silty Sands under Cyclic Loading 4.21a
Huynh Huu Thao Nguyen (Vietnam)	Nonlinear Soil-Structure Interaction Analysis Under Earthquake Considering Soil Liquefaction 4.22a
Johann Facciorusso Marco Uzielli Giovanni Vannucchi (Italy)	CPT-based Comparative Mapping of Liquefaction Hazard for Large Areas 4.23a
K. Onder Cetin Berna Unutmaz H. Tolga Bilge (Turkey)	Assessment of Liquefaction-Induced Foundation Soil Deformations 4.25a
Francesco Castelli Valentina Lentini (Italy)	SPT-Based Evaluation of Soil Liquefaction Risk 4.26a
Özener Tohumcu Pelin Özaydın Kutay (Turkey)	Numerical Modelling of Liquefaction in Layered and Silt Inter Layered Sands 4.27a

Tom Farrell Kyle Wallace John Ho (USA)	Liquefaction Mitigation of 3 California Projects 4.28a
Lalita Oka Peter Larson Mandar Dewoolkar (USA)	Effects of Fines on Cone Penetration Resistance and Liquefaction Resistance in Sands 4.29a
Usama El Shamy Mourad Zeghal Ricardo Dobry Tarek Abdoun Sabanayagam Thevanayagam Ahmed Elgamal (USA)	DEM Simulation of Liquefaction-Induced Lateral Spreading 4.30a
Usama El Shamy Christina Denissen (USA)	Microscale Characterization of Energy Dissipation Mechanisms for Evaluation of Liquefaction Potential 4.31a
Kohji Tokimatsu Yoshiaki Ibaraki (Japan)	Factors affecting ground settlements at Kashiwazaki-Kariwa nuclear power plant in the 2007 Niigata-ken Chuetsu-oki earthquake 4.32a
Masaho Yoshida Masakatsu Miyajima Atsunori Numata (Japan)	Liquefaction Countermeasure Technique by Using Logs for Carbon Storage Against Global Warming 4.33a
Sevinc Unsal Oral Kemal Onder Cetin (Turkey)	Effective Stress Based Numerical Assessment of Liquefaction-Induced Landslide at Degirmendere Cape, Izmit Bay During Kocaeli (Izmit)-Turkey Earthquake 4.34a
S. Senthamilkumar C. Natarajan K. Muthukumaran K. Ilamparuthi (India)	Liquefaction Potential Index Based Lateral Spread Empirical Modal 4.35a
Syed Kazim Mahdi (Pakistan)	Seismotectonic Contours of Kashmir-Hazara Region and Seismological Aspects of October 08, 2005 Earthquake 4.36a
Yaser Jafarian Mohammad H. Baziar Alireza Sadeghi Rouzbeh Vakili (Iran)	Probabilistic Evaluation of Field Liquefaction Potential Using Relative State Parameter Index (ξ_R) 4.37a
Hadi Bahadori Gholi Asadzadeh (Iran)	Evaluation of Gravel Drains Effectiveness Against Liquefaction in Shaking Table Utilizing Energy Method 4.38a
William M. Camp, III Hugh C. Camp Ronald D. Andrus (USA)	Liquefaction Mitigation Using Air Injection 4.39a

Sri Atmaja P. Rosyidi (Indonesia) Mohd. Raihan Taha (Malaysia) Surya Budi Lesmana (Indonesia) Zamri Chik (Malaysia)	Developing Underground Faults Cross Section and Liquefaction Potential Map from Information of Site Investigation, Geo-Resistivity and Seismic Measurements 4.40a
C. Guney Olgun James R. Martin II Atila Sezen (USA)	Field Evidence and Laboratory Testing of the Cyclic Vulnerability of Fine-Grained Soils during the 1999 Kocaeli Earthquake 4.41a
Scott M. Olson Junho Song Min-Woo Seo Cora I. Johnson (USA)	Probabilistic Estimation of Severity of Liquefaction Using Liquefaction Potential Index 4.42a
Jorge Meneses (USA) J. Alva (Peru) B. Cox (USA) V. Moreno M. Olcese (Peru) R. Sancio J. Wartman (USA)	Case Histories of Widespread Liquefaction and Lateral Spread Induced by the 2007 Pisco, Peru Earthquake 4.43a
George D. Bouckovalas Achilleas G. Papadimitriou Dimitris Niarchos (Greece)	Analytical and Numerical Investigation of Gravel Drain Performance for Liquefaction Mitigation 4.44a
Alexandros Valsamis George D. Bouckovalas Vasiliki Dimitriadi (Greece)	Parametric Investigation of Lateral Spreading in Free-Face Ground Formations 4.45a
Farzad Farrokhzad A. J. Choobbasti (Iran)	Artificial Neural Network Model for Prediction of Liquefaction Potential in Soil Deposits and Liquefaction Zonation of Babol 4.46a
Gordana D. Hadži-Niković Ilija D. Perković Biljana Abolmasov (Serbia)	Assessment of Liquefaction Potential Relevant to Choice of Type and Depth of Foundations in Seismically Active Areas 4.47a
John Liao Jorge Meneses Emre Ortakci (USA)	Comparison of Three Approaches for Evaluating Earthquake-Induced Soil Liquefaction Potential 4.48a
Ernest Naesgaard Peter M. Byrne (USA)	Back-Analysis of Upper and Lower San Fernando Dams Using a Combined Effective Stress – Total Stress Numerical Model 4.49a

Syed Kazim Mahdi (Pakistan)	Some Seismological Characteristics of Mw 6.5 Pishin-Ziarat October 29, 2008 Double Earthquake 4.50a
C. Guney Olgun James R. Martin II Atila Sezen (USA)	Field Evidence and Laboratory Testing of the Cyclic Vulnerability of Fine-Grained Soils during the 1999 Kocaeli Earthquake 4.51a
Md. Abdul Lahil Baki Sik-Cheung Robert Lo (Australia) Md. Mizanur Rahman (New Zealand)	Cyclic Instability Behaviour of Sand-Silt Mixture Under Partial Cyclic Reversal Loading 4.52a
Md. Mizanur Rahman (New Zealand)	Equivalent Granular Void Ratio and Behaviour of Loose Sand with Fines 4.53a
Murat Tonaroglu Kutay Ozaydin S.U. Dikmen (Turkey)	Seismic Analysis of Saturated Sand Deposits with Silt Layers 4.54a
S. M. Mir Mohammad Hesseini Y. Pashang Pisheh K. Shakiba Nia N. Ganjian (Iran)	Effect of Density on Critical Depth of Liquefaction in a Soil Deposit Containing Double Loose Sand Lenses 4.55a

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Aniruddha Sengupta Debabrata Giri (India)	Behavior of Nailed Steep Slopes in Laboratory Shake Table Tests 4.01b
Ali Komak Panah Mohammad Hossein Tavakol (Iran)	Evaluation of Horizontal Seismic Coefficient for Embankments Based on Permanent Displacement 4.02b
Constantine A. Stamatopoulos Trifon Thomaidis (Greece)	Accuracy of Empirical Equations Predicting Sliding-Block Displacement 4.03b
Constantine A. Stamatopoulos Kostas Mavromihalis (Greece)	The Effect of the Geometry Changes on Sliding-Block Predictions 4.04b
G.L. Sivakumar Babu Amit Srivastava (India)	Numerical Analysis of Failure of Rudramatha Dam Section During 26th January, 2001 Bhuj Earthquake 4.05b
T.N. Singh A.K. Verma (India)	Effect of Earthquake on Rock Structure Interaction -A Slope Stability Analysis 4.06b
Liaqat Ali Sarfraz Ali Aamar Maqbool (Pakistan)	Geotechnics of a Closed Municipal Solid Waste (MSW) Landfill Site in Pakistan 4.07b
Mohamed Arab Edward Kavazanjian, Jr. (USA)	Nonlinear Time-Domain Analysis of a Sliding Block on a Plane 4.08b
Indrajit Chowdhury Jitendra Pratap Singh Raj Tilak (U.A.E.)	Linear and Non-Linear Dynamic Response of Earth Dams in Two Dimension Based on a Novel Semi Analytic Approach 4.09b
Ivan Gratchev Ikuo Towhata (Japan)	Geotechnical Characteristics of Seismically-Induced Aratozawa Landslide, Japan 4.10b
Ming Xiao Nathan Shwiyhat Benjamin Adams (USA)	Effect of Seismicity on Subsurface Erosion in Earth Dams 4.11b
David C. Serafini Vlad Perlea (USA)	Comparison of Liquefaction Triggering Analysis Approaches for an Embankment Dam and Foundation 4.12b

Rajib Kumar Goswami Baleshwar Singh (India)	Stability Analysis of Flood Protection Embankments and Riverbank Protection Works 4.13b
S. Mohsen Haeri Ali Seiphoori Behzad Ghadimi (Iran)	3D Dynamic Analysis of Concrete Faced Rock-Fill Dams Subjected to Rayleigh Waves 4.14b
Yanhui Han (USA)	Seismic Analysis of the Reservoir-Earth Dam-Pore Fluid System Using an Integrated Numeric Approach 4.15b
Wolfgang Roth C.B. Crouse Ethan M. Dawson Bei Su (USA) Paul Hefer (Australia)	Seismic Performance Evaluation of a Submarine Gas Pipeline 4.16b
A.Ghosh S.Sarkar D.P.Kanungo S.K.Jain Dalip Kumar Anand Singh Kalura (India)	Slope Instability and Risk Analysis of a Slope with Human Habitation on Way to Uttarkashi, Uttarakhand, India 4.17b
Panos Dakoulas (Greece)	Response of a CFR Dam to Lateral and Longitudinal Vibrations Using a Refined Nonlinear 3D Numerical Analysis 4.18b
Anton Chirica Dragos Vintila Diana Tenea (Romania)	The Stability and Deformation Limit State Corresponding to the High Road Embankments Close to a Bridge 4.19b
R.S.T.Sai S.K.Shukla G.M.Prasad Sandeep Singhal (India)	2D Dynamic Analysis of 260.5 High Earth & Rockfill Tehri Dam 4.20b
Roger L. Torres (USA)	Ground Motions and Liquefaction 4.21b
Indrajit Roy (India)	Design of an External Waste Rock Dump in an Opencast Coal Mine Standing Against a Hill in Seismic Prone Area of India 4.22b
Roxane Foulser-Piggott Peter J. Stafford (United Kingdom)	Incorporation of the Spatial Correlation of Arias Intensity within Earthquake Loss Estimation 4.23b
Michelle Theron Fritz Wagener Phillip Steenkamp (South Africa)	Seismic Stability Assessment the Raising of the Geita Tailings Storage Facility, Tanzania 4.24b

Francesca Bozzano Eliana Esposito (Italy) Luca Lenti (France) Salvatore Martino Alfredo Montagna Antonella Paciello Sabina Porfido (Italy)	Numerical Modelling of Earthquake-Induced Rock Landslides: The 1783 Scilla Case-History 4.25b
David Rees Gillette (USA)	Issues in the Use of Empirical Correlations for Estimating the Residual Undrained Shear Strength of Liquefied Soils 4.26b
Behzad Asgary Yaser Jafarian Mohammad Hassan Baziar (Iran)	Assessing Simplified and Numerical Approaches of Seismic Permanent Displacement Using Landslide Case Histories 4.27b
P. K. Basudhar N.S.V. Kameswara Rao Mothilal Bhokya Arindam Dey (India)	2D FEM Analysis of Earth and Rockfill Dams Under Seismic Condition 4.28b
Tensay G. Berhe W. Wu (Austria)	Effect of Canyon Geometry and Ground Conditions on the Seismic Performance of Tendaho Earthfill Dam in Ethiopia 4.29b
Keiichi Ota Koji Takeya Keiichi Itoh Senro Kuraoka (Japan)	Centrifuge Model Tests of Tieback Anchors and Drainage Pipes for Stabilization of Slopes Under Earthquake Loads 4.30b
Simone Barani (Italy) Paolo Bazzurro (USA) Fabrizio Pelli (Italy)	A Novel Probabilistic Method for the Prediction of Earthquake-Induced Slope Displacements 4.31b
Mehdi M. Waseem Agarwal Pratibh (India)	Seismic Stability of the Nailed Slopes 4.32b
Kermit N. Applegate Ronaldo Luna (USA)	Impact of Seismic-Induced Lateral Spreading on a Bridge Foundation System in Southeastern Missouri 4.33b
John Liao Zia Zafir (USA)	Simplified Seismic Slope Deformation Evaluation of Levees 4.34b
Liping Yan Craig A. Davis Jianping Hu (USA)	Numerical Evaluation on Seismic Performance of the Second Los Angeles Aqueduct at Terminal Hill 4.35b

Govardhan Bhat Navjeev Saxena (India)	Static and Dynamic Behavior of Earthen Slopes in the Region of Uttarkashi, India 4.37b
Humberto Puebla Roberto Olivera Upul Atukorala (Canada) Douglas G. Honegger (USA) Jusheng (Mark) Qian (Canada)	Challenges in Assessing the Seismic Vulnerability of Two Water Main River Crossings in Vancouver, Canada 4.38b
Jongwon Lee Russell A. Green Rachel Finch (USA)	An Empirical Predictive Relationship for Assessing the Seismic Stability of Slopes 4.39b
Shoichi Nakai Yoko Nagata Toru Sekiguchi (Japan)	Effect of a Slope on the Dynamic Properties of Diluvial Terrace 4.40b
Binod Tiwari Mike Hillman (USA)	Seismic Slope Stability of Reactivated Landslides – A Performance Based Analysis 4.41b
Varvara Zania Yiannis Tsompanakis Prodromos N. Psarropoulos (Greece)	Seismic Distress and Protection of Flexible Membrane Liner of Solid Waste Landfills 4.42b
Masoud Amel Sakhi Mohammad Davoodi M.K. Jafari (Iran)	Using Recorded Earthquake Signals for Dynamic Analysis of Masjed Soleiman Embankment Dam 4.43b
Achilleas G. Papadimitriou Konstantinos I. Andrianopoulos George D. Bouckovalas Kostas Anastasopoulos (Greece)	Improved Methodology for the Estimation of Seismic Coefficients for the Pseudo-Static Stability Analysis of Earthdams 4.44b
Sudipto Datta R. Anbalagan (India)	Slope Stability Analysis of Mansa Devi Landslides in Haridwar, Uttarakhand 4.45b
Lelio Mejia Ethan Dawson (USA)	3D Analysis of the Seismic Response of Seven Oaks Dam 4.46b
Ali Ghanbari Mohsen Mojezi Meysam Fadaee (Iran)	Seismic Behavior of Asphaltic Concrete Core Dams 4.47b

Ali Komakpanah Sina Majidian (Iran)	Assessment of Siesmic Failure of Soil-Nailed Excavations Under Cyclic Load and Pseudo-Static Analysis 4.48b
Dalia S. Youssef Abdel Massih (Lebanon) Abdul-Hamid Soubra (France) Mohamed Rouainia (United Kingdom) Jacques Harb (Lebanon)	Reliabilty Analysis of Lebanese Slopes in Seismic Conditions 4.51b
Maryam Malekian Amirata Taghavi Mohammad Hassan Baziar (Iran)	The Effects of Canyon Topography on Distribution Pattern of Dynamic Stresses in Earth Dams 4.52b
Ha H. Bui R. Fukagawa K. Sako T. Matsumoto (Japan)	Earthquake Induced Slope Failure Simulation by SPH 4.53b
K. Jagan Mohan Ramancharla Pradeep Kumar (India)	Numerical Modeling of Near-Field Earthquake Effects on Concrete Gravity Dam 4.55b
Selman Saglam Deniz Ülgen (Turkey)	Estimation of Seismic Coefficient in Concrete Faced Rockfill Dams 4.56b
Susumu Yasuda Tatsushi Mouri Takafumi Tsuruda (Japan)	Cyclic Torsional Shear Tests to Obtain Dynamic Soil Properties for Seismic Design of Road Embankments 4.57b
Hamid Karimian Adrian Wightman Somasundaram Sriskandakumar Li Yan (Canada)	Soil-Structure Dynamic Analysis Using Scenario Target Spectrum Matched Records 4.58b
Filippo Ciuffi (Italy)	Health Monitoring of Dams in a Seismic Area: A <i>New Procedure</i> Devised 4.59b
Michael James (Canada)	A Tailings and Waste Rock Co-Disposal Method to Increase the Seismic Stability of Tailings Impoundments 4.60b
Huynh Dat Vu Khoa (Norway)	Finite Element Modeling of the Las Colinas Landslide Under Earthquake Shaking 4.61b
Giovanna Biscontin Hamid Reza Nouri (USA)	1-D Constitutive Model on the Cyclic Soil Behavior under Simple Shear Stress 4.62b

Radhakanta Koner Debashish Chakravarty (India)	Evaluation of Seismic Response of External Mine Overburden Dumps 4.63b
Sebastiano Rampello Luigi Callisto Pietro Fagnoli (Italy)	Seismic Performance of Earth Dams of Different Type and Geometry 4.64b
A.K. Pachauri (India)	Landslide Hazard Mapping and Assessment in Himalayas 4.65b

SESSION 5a “Soil-Structure Interaction under Dynamic Loading, for both Shallow and Deep Foundations”	
Pranesh Chatterjee (Netherlands) Biswajit Basu (Ireland)	Non-Stationary Soil-Structure Interaction Analysis of a SDOF System Subjected to Joint Horizontal and Vertical Seismic Excitations 5.01a
H. Elahi M. Moradi (Iran) H. Poulos (Australia) A. Ghalandarzadeh (Iran)	Seismic Analysis of Pile Group Using Pseudostatic Approach 5.02a
Yong Tan (China) Ye Lu (USA)	Behaviors of Sheet Pile Walls During Deep Dynamic Compaction 5.03a
Naohiro Nakamura (Japan)	Transform Method of Frequency Dependent Soil Impedance into Time Domain and its Application for Soil-Structure Interaction Problems 5.04a
Bappaditya Manna Dilip Kumar Baidya (India)	Nonlinear Soil-Pile Interaction Under Vertical and Coupled Motion 5.05a
Shuwang Yan (China) Jian Chu (Singapore) Qijin Fan (China)	Wave-Induced Strength Weakening of Soft Clay Below a Prefabricated Caisson Dike 5.06a
Indrajit Chowdhury Shambhu P.Dasgupta (India)	Estimation of Lateral Load Capacity of Short Piles Under Earthquake Forces 5.08a
Ian Prowell Ahmed Elgamal Jinchi Lu (USA)	Modeling the Influence of Soil Structure Interaction on the Seismic Response of a 5 MW Wind Turbine 5.09a
Aurelian C. Trandafir Steven F. Bartlett (USA)	Damping Ratio Effects on Computed Dynamic Response of EPS Geofoam Seismic Buffers 5.10a
Eui-Kyu Yang Sun-Yong Kwon Myoung Mo Kim (Korea)	Natural Frequency Calculation of a Pile-Soil System in Dry Sand under an Earthquake Loading 5.11a
Liam Wotherspoon Michael Pender (New Zealand)	Effect of Uplift Modelling on the Seismic Response of Shallow Foundations 5.12a

Endi Zhai (USA)	Numerical Modeling of Soil-Pile Interaction in Liquefying Soils for a Water Crossing Bridge 5.13a
M.E.Stringer S.P.G.Madabhushi (United Kingdom)	Effect of Liquefaction on Pile Shaft Friction Capacity 5.15a
J.M. Eisenberg (Russia)	Pile-In-Tube Foundations with Reserve Switch-Off Elements and Other Systems for Seismic Response Adaptive Control 5.16a
Sanjeev Malhotra (USA)	Seismic Soil-Pile-Structure Interaction: Physical Processes Analytical Models 5.17a
Dragos Vintila Diana Tenea Anton Chirica (Romania)	Designing Optimization for Some Eolian Power Unit Taking Into Account the Seismic Loads Influence 5.18a
Shamsher Prakash Vijay K. Puri (USA)	Recent Advances in Prediction of Piles Behavior Under Dynamic Loads 5.19a
M.S. Hora Ramakant Agrawal (India)	Nonlinear Soil-Structure Interaction Behaviour of Infilled Frame-Layered Soil System under Seismic Effects 5.20a
J. Yang X.R. Yan (Hong Kong)	Surface Foundations Under Earthquake Loading: Effect of Soil Nonlinearity 5.21a
George Anoyatis George Mylonakis (Greece)	Dynamic Winkler Modulus for Axially Loaded End-Bearing Piles 5.22a
Stefano Renzi Giovanni Vannucchi Claudia Madaï (Italy) George Mylonakis (Greece)	Influence of Dynamic Soil-Structure Interaction Analyses on Shear Buildings and Towers 5.23a
Michele Maugeri Francesco Castelli Valentina Lentini (Italy)	A Simplified Approach for the Evaluation of Kinematic Pile Bending 5.24a
C. Guney Olgun James R. Martin II (USA)	Seismic Performance of Soil-Mix Panel Reinforced Ground 5.25a
Behzad Ghadimi (Iran)	Dynamic Response of Pile Groups Embedded in Transversely Isotropic Media Using Hybrid Numerical Method 5.26a
Ioannis Anastasopoulos Takis Georgarakos Vasilis Drosos George Gazetas (Greece)	Experimental Soil–Foundation–Bridge Pier Interaction: Towards a Reversal of Capacity Design 5.27a

G. Papazafeiropoulos P. N. Psarropoulos Y. Tsompanakis (Greece)	Effects of Retaining Walls on the Dynamic Foundation Impedance of Retained Structures 5.28a
Huynh Huu Thao Nguyen (Vietnam)	Nonlinear Soil-Structure Interaction Analysis Under Earthquake Considering Soil Liquefaction 5.29a
Shuji Tamura Kohji Tokimatsu Keisuke Adachi (Japan)	Centrifuge Tests and Simple Analyses for Seismic Soil-Structure Interaction 5.30a
Gordana D. Hadži-Niković Stanko B. Ćorić (Serbia)	Investigation of Vibration Caused by Traffic and Railway Load 5.31a
Kumar Venkatesh D. Pandey N. K. Samadhiya (India)	Seismic Response of Barrage Raft Floor Under Heterogeneous Soil Medium 5.32a
Daniela Ardita Michele Maugeri Ernesto Motta Erminia Raciti (Italy)	A Parametric Study on Soil-Pile Kinematic Interaction in Layered Soils 5.33a
Alper Turan Dahlia Hafez Hesham El Naggar (Canada)	Behavior of Micropile Supported Foundations Under Seismic Loads 5.34a
R. Ayothiraman (India)	Seismic Behaviour of Piles in Clay Predicted Using 3-D Finite Difference Model 5.36a
Esteban Saez Fernando Lopez-Caballero Arezou Modaresi- Farahmand Razavi (France)	Effect of Elastic and Inelastic DSSI on Seismic Demands of SDOF Structures 5.37a
Domenico Lombardi Subhamoy Bhattacharya (United Kingdom)	Fixity of the Pile in Liquefiable Soils 5.39a
S.Vijaya S. Gangadhara (India)	Experimental Study on the Performance of Reinforced Sand Beds Under Repeated Loads in Presence of Water 5.40a
Konstantinos Giannakos (Greece)	Interaction Between Superstructure and Substructure in Railways 5.41a
Konstantinos Giannakos (Greece)	Stiffness Coefficient in the Transition Zone Between Ballasted and Ballastless Track and its Influence on Formation Stressing 5.42a
Mansour Nikkhah-Bahrami Hamed Saeidi (Iran)	The Effect of Step Load Moving on the Surface of a Cylindrical Cavity Using Neural Networks 5.43a

Ali Gandomzadeh Maria Paola Santisi d'Avila Jean-François Semblat Luca Lenti Fabian Bonilla (France)	Influence of Soil Nonlinearities on Dynamic Soil-Structure Interaction 5.44a
Govardhan Bhat Navjeev Saxena (India)	Influence of Modeling on Response of RC Framed Building Under Static and Dynamic Conditions 5.45a
Freidoun Amini Masoud Shadlou (Iran)	Effects of Recorded Free-Field Motion on the Response of Buildings Under Considering Soil-Structure Interaction Effects 5.46a
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Ali Ghorbani Elias Ghamari (Iran)	The Study of Inclined Piles Group under Dynamic Loading 5.52a
Manish V. Shah A.V. Shroff Nitin Joshi (India)	Soil-Structure Interaction of Soft Clay Using Prefabricated Vertical Geodrains Under Seismic Stresses 5.53a
Jinchi Lu Ahmed Elgamal (USA)	Large Scale Modeling of Laterally Loaded Pile Group Foundation 5.54a
Zhao Cheng Hubert Law Yang Jiang (USA)	Soil-Structure Interaction Analysis for Bridge Caisson Foundation 5.55a
Lisa M. Anderson Tarek Elkhoraibi (USA)	Structure-To-Soil-Structure Interaction Analysis: A Case Study 5.56a
Francesco Grassi Maria Rossella Massimino (Italy)	FEM Modelling of a 3D Soil-Pile System Under Earthquakes 5.57a
Pulikanti Sushma Ramancharla Pradeep Kumar (India)	Dynamic Soil Structure Interaction Analysis of Pile Supported High Rise Structures 5.58a
A.M. Sheikhabaei A.M. Halabian S.H. Hashemolhosseini (Iran)	Analysis of Soil Nailed Walls Under Harmonic Dynamic Excitations Using Finite Difference Method 5.59a
Behzad Ghadimi (Iran)	Dynamic Response of Pile Groups Embedded in Transversely Isotropic Media Using Hybrid Numerical Method 5.60a
Sascha Richter Roberto O. Cudmani (Germany)	Numerical Analysis of Disconnected Spread Footing on Soft Soil during Strong Earthquake 5.61a
Tang Liang (China)	Study on Lateral Capacity of Pile Groups of Bridge in Liquefiable Ground Using Shaking Table Tests 5.62a
Ali Fakher Aslan Sadeghi-Hokmabadi Alireza Saeedi-Azizkandi (Iran)	Development of Seismic Strain Wedge Method to Analyze Piles Under Lateral Seismic Loading 5.63a
Masoomah Khodabakhshi Mohammad Hassan Baziar (Iran)	Evaluation of Deformation Behavior of Quay Walls Under Earthquake Loading 5.64a
Nikos Gerolymos V. Drosos George Gazetas (Greece)	Seismic Response of Inelastic Pile Foundations: New Design Philosophy and Applications 5.65a

Anoosh Shamsabadi Yong-Jei Lee Hugo Gomez (USA)	Practical Nonlinear Soil-Abutment-Foundation-Structure Interaction Analysis of Curved Bridges Subjected to Near-Field Ground Motions 5.66a
Carlos Coronado Jaspal Saini Sanjeev Malushte Navin Verma (USA)	Practical Seismic Soil-Structure Interaction of Nuclear Power Plants 5.67a
Edgar E. Rodriguez-Granados Jose L. Puentes-Ortiz (Colombia)	2D And 3D Seismic Response Analysis of Vital Pipelines System of Bogota City 5.68a
Roberto Paolucci (Italy) Raffaele Figini (France)	A Simple Numerical Tool for Dynamic Soil-Structure Interaction Analyses Including Nonlinear Behaviour of Both Structure and Foundation 5.69a
D.S. Liyanapathirana (Australia)	Load Transfer Between Pile Groups and Ground During Earthquakes 5.71a
Hamidreza Sadeghi Maziar Pasdarpour (Iran)	Finite Element Model for Rocking Vibration of Pile Group Foundation 5.72a
Mahmoud Ghazavi Amid Madhousi (Iran)	Influence of Concentrated Mass on Pile Response Under Vertical Earthquake Excitation 5.75a
Mahmoud Ghazavi Javad Nazari Afshar Khashayar Hemmati (Iran)	Analytical Method for Seismic Bearing Capacity of Stone-Column Reinforced Shallow Foundations 5.76a
Mahmoud Ghazavi Pedram Ravanshenas (Iran)	An Analytical Solution for Pile-Soil-Pile Interaction with Unequal Length Under Vertical Harmonic Vibration 5.77a
Mahmoud Ghazavi Mobin Afzalirad (Iran)	Investigation of Non-Uniform Pile Behaviour Under Torsional Harmonic Vibrations 5.78a
Pirooz Barar Qing Liu (USA)	Times-History Finite Element Dynamic Analysis - Soil Nail Wall - San Manuel Casino - Highland, California 5.79a
Daniela Boldini Angelo Amorosi (Italy)	Analysis of Tunnel Behaviour Under Seismic Loads by Means of Simple and Advanced Numerical Approaches 5.80a

<p>Takashi Tazoh Masayoshi Sato Jiho Jang Yoichi Taji (Japan) George Gazetas (Greece)</p>	<p>Seismic Behavior of Batter Pile Foundation: Kinematic Response 5.81a</p>
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Vasudeo Chaodhari Pradeep Kumar Ramancharla (India)	Numerical Modelling of Buried Pipeline Crossing a Fault 5.02b
Ioannis Anastasopoulos George Gazetas (Greece)	Design of Bridges Against Seismic Faulting: Methodology And Applications 5.03b
Tahmeed M. Al-Hussaini Kamruzzaman Khan (Bangladesh)	Soft Soil Effect on Soft Storey Response 5.04b
Mark Svinkin (USA)	The Variable Damping Concept in Pile Capacity Prediction by Wave Equation Analysis 5.05b
Jale Tezcan Qiang Cheng Lincoln Hill (USA)	Response Spectrum Estimation Using Support Vector Machines 5.06b

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“Seismic Analysis and Design of Retaining and Marine Structures, Field Studies on Retaining Walls in California, Japan and around the World”	
Fransiscus S. Hardianto John E. Sankey Kim M. Truong (USA)	Parametric Study of Seismic LRFD (Load-and-Resistance Factor Design) Method for MSE (Mechanically Stabilized Earth) Walls 6.01a
Kalliopi Kakderi Kyriazis Pitilakis (Greece)	Seismic Analysis and Fragility Curves of Gravity Waterfront Structures 6.04a
Yung-Yen Ko Ho-Hsiung Yang Cheng-Hsing Chen (Taiwan R.O.C.)	Seismic Fragility Analysis for Sheet-Pile Wharves - Case Study of the Hualien Harbor in Taiwan 6.05a
Mohammadreza Abbasi Garavand Alireza Saberi Mona Salimi Ghezelbash (Iran)	Seismic Analysis of Retaining Wall Structures 6.06a
Yohsuke Kawamata Scott A. Ashford (USA)	Discussions on Dynamic Interaction Between Piles and Large Particle Rockfill 6.07a
Francesco Leuzzi Sebastiano Foti Renato Lancellotta (Italy) George Mylonakis (Greece)	Dynamic Response of Cantilever Retaining Walls Considering Soil Non-Linearity 6.08a
Anitha Nelson P.K. Jayasree (India)	Seismic Response of Reinforced Soil Retaining Walls with Block Facings 6.09a
Linda Al Atik Nicholas Sitar (USA)	Numerical Study of Seismic Earth Pressures on Cantilever Retaining Structures 6.11a
Raj S. Varatharaj Arul K. Arulmoli Carl Schulze Dick Chan (USA) Geoff Cooper (Canada)	Seismic Improvements and Extension of a Caisson Wharf in Guam 6.12a
Luigi Callisto Giulia Viggiani (Italy)	Effect of Soil Deformability on Seismic Analysis of Embedded Retaining Structures 6.13a
Hazem Sarhan Fatemah Riazi (UAE)	Design of Block Quay Wall Under Earthquakes 6.14a

Aditya Parihar Navjeev Saxena D.K. Paul (India)	Effects of Wall-Soil-Interaction on Seismic Response of Retaining Wall 6.15a
J. Matos e Silva (Portugal)	Diaphragm Walls Seismic Design According to the Eurocodes 6.16a
Javad Safadoust Samad Jafari Milani Mahmoud Amir Rahmani (Iran)	Seismic Analysis of Geogrid Reinforced Soil Retaining Wall 6.17a
Zhiqiang Li (China)	Analysis of Aseismic Reliability Considering the Uncertainties Both Structural Parameters and Earthquake Loadings for Earth-Retaining Wall 6.18a
Kinya Miura Shingo Morimasa Jumpei Watanabe Chin Hok Nozumu Yoshida Eiji Kohama (Japan)	Effect of Flexibility of Retaining Structure on its Sliding Displacement During Earthquake 6.19a
Guoxi Wu (Canada)	Seismic Soil Pressures on Rigid Walls with Sloped Backfills 6.20a
Mohammad Norouz Oliaei Arash Esmatkahh Irani (Iran)	Soldier Pile Retaining Walls Behavior Under Earthquakes 6.21a
Omar Al-Farouk Salem Al-Damluji Akram Younis Thanoon Al-Sa'aty Rafii Mahmoud Al-Nu'aimi (Iran)	Effects of Internal Gas Explosion on an Underwater Tunnel Roof 6.22a
K. Shakiba Nia N. Ganjian H. Ghasemzadeh (Iran)	Effects of Facing Rigidity on Seismic Response of Geosynthetic Reinforced Retaining Walls 6.23a
Binod Shrestha Hadi Khabbaz (Australia)	Application of Vertical Reinforcement for Performance Enhancement of Reinforced Soil in Seismic Loading 6.24a
A. Murali Krishna (India)	Seismic Lateral Earth Pressures on Retaining Structures 6.25a
Alberto Pettiti (Italy) Dominic Assimaki (USA) Sebastiano Foti (Italy)	Numerical Study of the Performances of Cantilever Walls Subjected to Seismic Loading 6.27a

Heba K. Mohamed Amira Abdel Rahman Mona Aiid (Egypt)	Deterministic and Probabilistic Assessment for Seismic Performance of Gravity Quay Walls 6.30a
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Parisi Rahimkhani (Iran)	Zoning of B and A Values in Iran 6.01b
Kaveh Andisheh Seydeh Sara Hossini Motaza Taghizadeh (Iran)	Preparation the Site Specific Spectrum for Civil Regions of Zagross Mountains 6.02b
Kaveh Andisheh Gholamreza Ghodrati Amiri Motaza Taghizadeh (Iran)	Evaluating Seismicity Parameters of Sanandaj, Iran Based On Instrumental Earthquake 6.03b
Kaveh Andisheh Gholamreza Ghodrati Amiri Seyed Ali Razavyain Amrei (Iran)	Uniform Seismic Hazard Spectra of Sanandaj, Iran 6.04b
Llambro Duni Luljeta Bozo Neki Kuka Enkela Begu (Albania)	An Upgrade of the Microzonation Study of the Centre of Tirana City 6.05b
Ivanka Paskaleva Mihaela Kouteva (Bulgaria) Franco Vaccari Giuliano F. Panza (Italy)	Characterization of the Elastic Displacement Demand: Case Study - Sofia City 6.06b
Hing-Ho Tsang (Hong Kong) J. S. Vinod (Australia) S. Yaghmaei Sabegh (Iran) M. Neaz Sheikh (Australia) T. G. Sitharam (India) P. Anbazhagan	An Alternative Method for Site-Specific Probabilistic Seismic-Hazard Assessment 6.07b
Hamed Khodadadi Tirkolaei Morteza Jiryaei Sharahi (Iran)	Effect of Topographic Site Conditions on High Importance Constructions Design 6.08b
Simone Barani Roberto De Ferrari Gabriele Ferretti Daniele Spallarossa (Italy)	Calibration of Soil Amplification Factors for Real Time Ground Motion Scenarios in Italy 6.09b

Juan M. Mayoral Luis Osorio (Mexico)	Seismic Microzonation of the Texcoco Lake Area, Mexico 6.10b
Mario L. Rainone Patrizio Signanini Fabio Pizzica (Italy)	Draft of Guidelines for Site Effect Evaluation in a Historical Centre of Tuscany Region (Italy): The Example of Fivizzano 6.11b
Arif M. Eker Haluk Akgün Mustafa K. Koçkar (Turkey)	A Comparison of Local Site Conditions with Passive and Active Surface Wave Methods 6.12b
Piera Paola Capillieri Michele Maugeri Erminia Raciti (Italy)	Geotechnical Seismic Risk Evaluation in Seismic Areas 6.13b
Jan Willem Roelof Brouwer Torild Van Eck Femke Goutbeek (Netherlands)	The Meaning of Eurocode 8 and Induced Seismicity for Earthquake Engineering in the Netherlands 6.14b
Mustafa K. Koçkar Haluk Akgün (Turkey) Ellen M. Rathje (USA)	Comparison of Site Conditions Based on the Turkish Code and International Building Code: A Case Study for Ankara, Turkey 6.15b
Gloria Estrada (Colombia)	Analysis of Earthquake Site Response and Site Classification for Seismic Design Practices 6.16b
S. M. Ali Jawaid (India)	Comparison of Liquefaction Potential Evaluation Based on Different Field Tests 6.17b
Filippo Ciuffi (Italy)	An Innovative Procedure for the Rapid Mapping of Urban Earthquake Vulnerability 6.18b
Salvatore Grasso Michele Maugeri (Italy)	Seismic Performance Evaluation of Underground Lifelines in the City of Catania Subjected to Earthquake Scenarios 6.19b
Vera Pessina Emilia Fiorini Roberto Paolucci (Italy)	GIS-Based Identification of Topographic Sites with Significant Ground Motion Amplification Effects 6.20b
S.S. Trivedi K.S. Rao K.K. Gupta (India)	Seismic Site Characterization Studies for Ahmedabad Region 6.22b

SESSION 7a	
“Seismic Analysis and Retrofit of Foundations of Bridges and Other Sub-Structures, Seismic Retrofit Projects and Procedures in California”	
Masahiro Shirato Tetsuya Kouno Shoichi Nakatani (Japan)	Estimation on the Permanent Displacement of Highway Bridge Shallow Foundations Under Rare- Scale Earthquakes 7.01a
F. Rahimzadeh Rofooei M.R. Malek Mohammad (Iran)	The Influence of Irregularity on the Values of Demand Modifier Factor in ASCE 41-06 7.02a
Jae-Hoon Chang Duhee Park (Korea)	Effect of Discontinuities of Rock Mass on Seismic Response of Tunnel 7.03a
S.C. Darren Chian S.P. Gopal Madabhushi (United Kingdom)	Floatation of Tunnel in Liquefiable Soil 7.04a
Te-Chih Ke Hubert Law Po Lam (USA)	Ground Motion Study on Dumbarton Toll Bridge 7.05a
Juan M. Mayoral Francisco A. Flores (Mexico)	Numerical Study of the Seismic Response of an Urban Bridge Support System 7.06a
Juan M. Mayoral Francisco A. Flores (Mexico)	Strong Ground Motion Variability Assessment for an Urban Bridge Design 7.07a
G. Padmanabhan C.Sundaramurthy C.Sivathanupillai P.V.Kumar (India)	Case Studies on Liquefaction Hazard Assessment at Nuclear Power Plant Sites 7.08a
Marcos Aires A. Santos Marcio Muniz de Farias (Brazil)	Numerical Analysis of Tailing Dams and Offshore Foundations Under Cyclic Load 7.09a
Ch. A. Dzhantimirov V.A. Barvashov S.A. Rytov P.V. Smirnov (Russia)	Application of High-Power Electrical Sparks for Dynamic Compaction of Soil 7.10a

SESSION 7b	
“Case Histories of Geotechnical Earthquake Engineering, Failures and Geotechnical Analysis of Recent Earthquakes”	
Abouzar Sadrekarimi Timothy D. Starke (USA)	Earthquake Induced Excess Pore Water Pressures in the Upper San Fernando Dam during the 1971 San Fernando Earthquake 7.01b
Wolfgang G. Brunner (Germany) Arthur Bi Yan-Lian Chen (Taiwan)	Ground Improvement by Stone Columns at Formosa Plant, Taiwan and its Earthquake Response 7.02b
Hamed Niroumand (Iran)	Performance of Solid Waste Soil in Broujerd and Silakhor Earthquake 7.04b
S.R. Taheri F. Rafia (Iran)	The Influence of Alluvium Layer Thickness on Seismic Behavior of Twin Tunnels of Esfahan Metro 7.06b
Barnali Ghosh Zygmunt Lubkowski (United Kingdom)	The Importance of Creating Value in Seismic Design 7.09b
Eric Yee (USA) Kohji Tokimatsu (Japan) Jonathan P. Stewart (USA)	Preliminary Analysis of Seismic Compression at the Kashiwazaki-Kariwa Nuclear Power Plant from the 2007 Niigata-Ken Chuetsu-Oki Earthquake 7.10b
Takao Hashimoto Masakatsu Miyajima (Japan)	Analysis of Highway Embankment Failure During the 2007 Noto-Hanto Earthquake, Japan 7.11b
Dimitra Manou Maria Manakou Maria Alexoudi Anastasios Anastasiadis Kyriazis Pitilakis (Greece)	Microzonation Study of Duzce, Turkey 7.12b
P. Venkata Dilip Kumar Ramancharla Pradeep Kumar (India)	Numerical Modeling of Sumatra Plate Junction for Finding Probable Location of Next Great Earthquake 7.13b
Howard Plewes Bob Chambers Terence Jibiki Alex Sy Rick Friedel (Canada)	Ground Improvement by Dynamic Compaction at a Tailings Disposal Facility 7.14b

SESSION 7c	
“Geotechnical Earthquake Engineering Issues in San Diego Region: Seismic Hazard, Onshore and Offshore Faulting, Near Fault and Directivity Effects, Liquefaction and Lateral Spread, Seismic Retrofit Projects, Seismic Design of Large Projects, Deep Canyon Fills, Landslides, Tsunamis.”	
Leo Handfelt Ivan Wong Patricia Thomas Timothy Dawson Jim Zhou (USA)	Seismic Hazard Evaluation for Design of San Vicente Dam Raise 7.01c
James R. Gingery Scott H. Rugg Thomas K. Rockwell (USA)	Fault Hazard Characterization for a Transportation Tunnel Project in Coronado, California 7.02c
Lisheng Shao Jack Kinley (USA)	Vibro Replacement and Soil Mixing Ground Improvements at a Shopping Mall Site 7.03c
Shawn Weedon Garry Cannon (USA)	San Diego Seismic Study – Lane Field 7.04c
Sunil Arora Rob Stroop Lisheng Shao (USA)	Vibro Replacement for Liquefaction Mitigation and at a Storage Facility in Coronado, California, USA 7.05c
Thomas K. Rockwell (USA)	The Rose Canyon Fault Zone in San Diego 7.06c
Iraj Noorany David L. Schug Carol L. Forrest (USA)	Analysis of Liquefaction Risk for Harbor Island, San Diego 7.07c
B.K. Pal M.K. Panda (India)	Comparison of Erosional Features by Tsunami and Wind Waves 7.08c

SESSION 8	
“Model and Full-Scale Tests of Geotechnical Structures Including Centrifuge Tests, Recent Advances from Earthquake Simulation Facilities such as NEES, E-Defense, NCEE”	
Sayed Hemeda (Egypt) Elias Bakasis Kyriazis Pitilakis (Greece)	A Three Dimensional (3D) Static Stability (FE) Analysis of the Central Rotunda of Catacombs of Kom El-Shoqafa, Alexandria, Egypt, Using the FLAC3D Code 8.01
Ashwini Kumar Dube (India)	Assessment of Rock Pressure for Tunnels in the Himalayan Region - A Case History 8.02
Jung In Choi Min Taek Yoo Sung Ryul Kim Myoung Mo Kim (Korea)	Development of Similitude Law on Frequency of Input Motions in 1-g Shaking Table Tests 8.03
Chia-Han Chen Tzou-Shin Ueng (Taiwan R.O.C.)	Behavior of Model Piles in a Liquefiable Soil in Shaking Table Tests 8.04
Yasir Ramzan Khokher Gopal Madabhushi (United Kingdom)	Dynamic Earth Pressures and Earth Pressure Cell Measurements 8.05
Kentaro Tabata Masayoshi Sato (Japan)	E-Defense Shaking Table Tests on the Behavior of a Pile-Foundation Structure in Full-Scale Model Ground Under Multi-Dimensional Motions 8.06
Masayoshi Sato Kentaro Tabata (Japan)	E-Defense Shaking Table Test on the Behavior of Liquefaction-Induced Lateral Spreading of Large-Scale Model Ground with a Pile-Foundation Structure Behind Quay Wall 8.07
Jui-Ching Chou Bruce L. Kutter (USA)	Centrifuge Modeling and Numerical Analyses of Seismic Response of the BART Transbay Tube 8.08
Scott Olson Youssef Hashash Mark Muszynski Camilo Phillips Carmine Polito (USA)	Centrifuge Physical Modeling of Lateral Spreading Against Large, Rigid Foundation Elements 8.09
Masayoshi Sato Kentaro Tabata (Japan)	Large-Scale Shake Table Test on Lateral Spreading of Sheet-Pile Wall Model and its Centrifuge Simulation 8.10
K.S. Beena (India)	Model Studies on Stone Columns 8.11
Ulas Cilingir S.P. Gopal Madabhushi (United Kingdom)	Seismic Behaviour of Tunnels - Effect of Input Motion 8.12

Saman Zarnani Richard J. Bathurst (Canada)	Shaking Table Experiments of Reinforced Soil Retaining Walls 8.13
Barbara J. Chang Tara C. Hutchinson (USA) Seshagiri R. Rajaparthi (Australia)	Experimental Investigation of Plastic Demands in Piles During Lateral Spread-Induced Loads 8.14
Ravi Kant Mittal Swami Saran (India)	Effect of Relative Density on Bearing Capacity Improvement of Strip Footings Resting on Sandy Soil Reinforced with Discrete Fibers Located In Earthquake Prone Area 8.15
Patrick W. Dunn Dennis R. Hiltunen Richard D. Woods (USA)	In Situ Determination of Dynamic Impedance Functions of Shallow Foundations 8.16
Ozgun Ozcelik (Turkey) J. Enrique Luco Joel P. Conte (USA) Luis H. Mendoza (Mexico)	Experimental Study of the Dynamic Interaction Between the Foundation of the NEES/UCSD Shake Table and the Surrounding Soil 8.17
Hiroshi Nakazawa Takahiro Sugano Takashi Shinsaka Masaki Adachi Kazuhiro Yamada (Japan)	Investigation of the Coefficient of Earth Pressure for Improved Ground by Compaction Grouting in the Full-Scale Field Liquefaction Experiment 8.18
K. Shakiba S. A. Sadrnejad S. N. Moghaddas Tafreshi (Iran)	Analysis of Effects of Reinforcement Stiffness in Geosynthetic Reinforced Soil Structures Using Finite Difference Simulation of Shaking Table Test 8.19
Holger Wienbroer Daniel Rebstock Gerhard Huber (Germany)	Numerical and Experimental Investigation of Soil Behavior Under Stationary Excitation 8.20

SESSION 9 “Performance Based Design in Geotechnical Earthquake Engineering”	
J. Tanner Blackburn Joseph A. Pastore Richard C. Wakeman Thomas J. Morgan Alan T. Evenson (USA)	Compaction Grouting for Seismic Mitigation of Sensitive Urban Sites 9.02
Luigi Callisto Fabio M. Soccodato (Italy)	Capacity Design of Multi-Restrained Retaining Walls 9.03
Mohammad Hassan Baziar Amir Hossein Ghaderinia (Iran)	Evaluation of Seismic Demand of Pile Foundation for Performance Based Design 9.04
Zdravko Bonev Petkov Gloria Nakova-Petkova (Bulgaria)	Simplified Seismic Demands Evaluation: Performance Based Approach Including Soil Conditions 9.05
Thomas Oommen Laurie G. Baise (USA)	A Practical Approach for Implementing the Probability of Liquefaction in Performance Based Design 9.06
Scott J. Brandenburg Pirooz Kashighandi (USA)	Application of Concave-Up P-Y Elements in Static Analysis of Piles in Laterally Spreading Ground 9.07
Yasser Abdelghany Hesham El Naggar (Canada)	Monotonic and Cyclic Behaviour of Helical Screw Piles Under Axial and Lateral Loading 9.08
T.G. Sitharam K.S. Vipin (India)	Liquefaction Potential Evaluation Based on Site Classes – A Performance Based Approach 9.09
Jiunn-Shyang Chiou Cheng-Hsing Chen (Taiwan R.O.C.)	Displacement Ductility Capacity of Fixed-Head Piles 9.10
Ramez Alchamaa Mitutoshi Yoshimine (Japan)	Simulation on Post-Liquefaction Deformation Considering the Seepage of Pore Water After an Earthquake 9.11
Steven L. Kramer Yi-Min Huang (USA)	Performance-Based Estimation of Liquefaction-Induced Settlement 9.12
Dimitris Karamitros George D. Bouckovalas Ioannis Chaloulos (Greece)	Analytical Methodology for the Performance-Based Design of Shallow Foundations on Liquefiable Ground 9.13

<p>Boris Jeremic (USA) Mahdi Taiebat (Canada) Nima Tafazzoli Panagiota Tasiopoulou Yiorgos Perikleous (USA)</p>	<p>Verification and Validation of Numerical Tools for Reliable Modeling in Geotechnical Earthquake Engineering 9.14</p>
<p>Kallol Sett Boris Jeremic (USA)</p>	<p>Improving Reliability of Numerical Predictions through Improved Site Characterization 9.15</p>