



24 May 2010, 7:00 am - 1:00 pm

Table of Contents

Multiple Authors

Follow this and additional works at: <https://scholarsmine.mst.edu/icrageesd>



Part of the [Geotechnical Engineering Commons](#)

Recommended Citation

Authors, Multiple, "Table of Contents" (2010). *International Conferences on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*. 1.

<https://scholarsmine.mst.edu/icrageesd/05icrageesd/session00e/1>

This Article - Conference proceedings is brought to you for free and open access by Scholars' Mine. It has been accepted for inclusion in International Conferences on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics by an authorized administrator of Scholars' Mine. This work is protected by U. S. Copyright Law. Unauthorized use including reproduction for redistribution requires the permission of the copyright holder. For more information, please contact scholarsmine@mst.edu.

Keynote Lecture

W. D. Liam Finn
A. Wightman
(Canada)

Some Recent Developments in the Selection of Ground Motions for Design Keynote

STATE OF THE ART AND PRACTICE (SOAP) SPECIAL LECTURE

I.M. Idriss
(USA)

Most Memorable Project and Lessons for the Geotechnical Engineering Students and Fresh Practitioners (paper not received)

STATE OF THE ART AND PRACTICE (SOAP) SPEAKERS

George Gazetas
Andriani I. Panagiotidou
Nikos Gerolymos
(Greece)

Pushover and Inelastic-Seismic Response of Shallow Foundations Supporting a Slender Structure SOAP1

Pedro S. Seco e Pinto
(Portugal)

Understanding Seismic Embankment Dam Behavior Through Case Histories SOAP2

Ricardo Dobry
Tarek Abdoun
(USA)

Seismic Response of Deep Foundations Subjected to Liquefaction-Induced Lateral Spreading: Integrated Research and Practical Implications SOAP3 (abstract only)

Susumu Iai
Tetsuo Tobita
(Japan)

Performance-Based Design of Geotechnical Structures: Recent Advances SOAP4

Ahmed Elgamal
(USA)

Calibrated 3-D Computational Modeling of Soil-Structure Systems and Liquefaction Scenarios SOAP5

Takaji Kokusho
Tomohiro Ishizawa
(Japan)

Case Histories and Energy-Based Evaluation on Travel Distance of Slope Failures During Recent Earthquakes SOAP6

Michael Pender
(New Zealand)

Integrated Earthquake Resistant Design of Structure-Foundation Systems SOAP7

- Skender Allkja
Lorena Harizaj
(Albania)
- Leo Matesic
(Croatia)
- Marco D'Elia
(Italy)
- Hsu-Chung Hsu
Mladen Vucetic
(USA)
- S. Mohsen Haeri
Mehdi Pouragha
(Iran)
- Wen-Jong Chang
Hsing-Chuan Ho
Jyh-Fang Chen
(Taiwan R.O.C.)
- Javier Moreno Robles
Vicente Cuéllar Mirasol
(Spain)
- Leonid Stavnitser
Galina Nikitaeva
(Russia)
- P. Anbazhagan
T.G. Sitharam
Aditya P. Sitharam
(India)
- Christopher R. I. Clayton
Amit K. Sultaniya
Jeffrey A. Priest
(United Kingdom)
- Tejas G. Murthy
Monica Prezzi
Rodrigo Salgado
(USA)
- Dimitrios Loukidis
(Cyprus)
- P. Hu
Q.P. Cai
G.Y. Luo
Y.H. Ding
C.W.W. Ng
Y.J. Hou
(China)
- Valérie Whenham
Alain Holeyman
(Belgium)
- Development of Database of Cyclic Soil Properties from 94 Tests on 47 Soils 1.07b**
- An Insight to the Effect of Initial Static Shear Stress on the Liquefaction of Sands 1.08b**
- Large Scale Model Test for Pile-Supported Wharf in Liquefied Sand 1.09b**
- Reproduction, by Means of True Scale Testing, of the Effects Caused on a Track by High Speed Railway Traffic 1.11b**
- Resonant-Frequency Method of Soil Damping Characteristics Determination 1.12b**
- Correlation between Low Strain Shear Modulus and Standard Penetration Test 'N' Values 1.13b**
- Assessing Cross Anisotropy of Small-Strain Stiffness Using the Resonant Column Apparatus 1.14b**
- Undrained Response of Clean and Silty Sands 1.15b**
- Centrifuge Modeling of the Influence of Pre-Existing fractures in Multilayered Soils on Ground Deformation 1.16b**
- Vibrodriving Prediction Models Vs. Experimental Results 1.17b**

- John L. Maier
Ali M. Oskoorouchi
(USA)
- Increasing Lateral Capacity of Helical Piles with Lateral Restraint Devices 1.18b**
- Nicolas Denies
(Belgium)
Jean Canou
Jean-Noël Roux
(France)
Alain Holeyman
(Belgium)
- Sphere Penetration Experiments in Vertically Vibrated Sand 1.19b**
- Lou Areias
(Belgium)
- Method to Reduce Variability of S-Wave Profiles in Seismic Cone Penetration Tests 1.20b**
- Scott Brandenburg
Joseph Coe
(USA)
- P-wave Reflection Imaging of Laboratory Soil Models 1.21b**
- Zhihua Li
(USA)
- A New Method for Evaluating Spatial Variability of Soil Strains Developed During Earthquakes Based on Electrical Resistivity Concepts using Green's Function 1.23b**
- Patrick Wilson
Ahmed Elgamal
(USA)
- Passive Earth Pressure Force-Displacement Relationships 1.24b**
- Koichi Nagao
Naoaki Suemasa
Tatsuo Akashi
Mikio Futaki
(Japan)
- Applicability Test of Soil Improvement Using Micro-Bubbles Against Soil Liquefaction 1.26b**
- Robb Eric S. Moss
Vic Crosariol
Steven Kuo
(USA)
- Shake Table Testing to Quantify Seismic Soil-Structure-Interaction of Underground Structures 1.27b**
- Salvador Lazcano
(Mexico)
- Experiences in Pumice Soil Characterization by Surface Wave Analysis 1.28b**
- Zamri Chik
Susy K. Ariestianty
(Malaysia)
Sri Atmaja P. Rosyidi
(Indonesia)
Khairul Anuar Mohd. Nauyan
Mohd. Raihan Taha
(Malaysia)
- Field Measurement of Dynamic Soil Properties of Tropical Meta-Sediment Residual Soils 1.29b**
- Diego Lo Presti
Nunziante Squeglia
Oronzo Pallara
(Italy)
- An Innovative Triaxial/Resonant Column Equipment 1.30b**

Jeramy C. Ashlock Ronald Y. S. Pak (USA)	Multi-Modal Synthesis and Variable Modulus Effects in Resonant Column Tests by Random Excitations 1.31b
Osama Abuhajar M. Hesham El Nagggar Tim Newson (Canada)	Review of Available Methods for Evaluation of Soil Sensitivity for Seismic Design 1.32b
Jamison H. Steidl Sandra Seale (USA)	Observations and Analysis of Ground Motion and Pore Pressure at the NEES Instrumented Geotechnical Field Sites 1.33b
M. Murat Monkul Jerry A. Yamamuro (USA)	Influence of Densification Method on Some Aspects of Undrained Silty Sand Behavior 1.34b
R.N. Khare (India)	New Methods to Remove Arsenic from Soils 1.36b

SESSION 2 "Wave Propagation, Engineering Vibrations and Solutions, Vibrations of Machine Foundations, Blast, Traffic and Construction Vibrations, Vibration Absorption"

Stefan Van Baars (Netherlands)	Near Field Wave Transformation in Clay and Peat 2.01
Petr P. Prochazka (Czech Republic)	Influence of Dislocations on Bumps Occurrence in Deep Mines 2.03
Dirk Wegener Ivo Herle (Germany)	Investigation of Shear Strain Amplitude Induced by Railroad Traffic in Soils 2.06
Hing-Ho Tsang (Hong Kong)	Geotechnical Seismic Isolation by Scrap Tire-Soil Mixtures 2.07
S. Yaghmaei Sabegh (Iran)	
Nelson T.K. Lam M. Neaz Sheikh Buddhima Indraratna (Australia)	
Sri Atmaja P. Rosyidi (Indonesia)	Couple CWT Spectrogram Analysis and Filtering: New Approach for Surface Wave Analysis (A Case Study on Soft Clay Sites) 2.10
Mohd. Raihan Taha Zamri Chik (Malaysia)	
C.B. Crouse Ethan Dawson Pedro Amaya	Vibration Analysis of Rotating Fans Mounted on Adjacent Rectangular Foundation Blocks 2.11

Prabir Sen (USA)	
Marc Ittershagen (Germany)	Ground Improvement Under Dynamic Loading 2.13
Ion Vlad (Romania)	Mechanical and Acoustical Vibrations of a Building Generated by Weaving Looms 2.14
Nien-Yin Chang (USA)	Viscous Damping for Time Domain Finite Element Analysis 2.15
Hien Manh Nghiem (Vietnam)	
Hiroto Nakagawa Shoichi Nakai (Japan)	Propagation of Surface Waves in an Irregular Ground Based on the Thin Layered Element and Finite Element Method 2.17
Ahmed Hussain Ramancharla Pradeep Kumar (India)	Large Variation in PGA Due to Presence of Heterogeneities in the Surface Soil 2.18
Abdul Hayir (Turkey)	Dynamic Behavior of an Elastic Beam on a Winkler Foundation Under a Moving Load 2.20
Faruk Karadođan M. Aysen Lav Ercan Yüksel (Turkey)	Vibrations Due to Dynamic Compaction 2.22
Ozgur L. Ertugrul Deniz Ulgen (Turkey)	Attenuation of Traffic Induced Ground Borne Vibrations due to Heavy Vehicles 2.27
Torsten Wichtmann Benjamin Rojas Andrzej Niemunis Theodor Triantafyllidis (Germany)	Stress- And Strain-Controlled Undrained Cyclic Triaxial Tests on a Fine Sand for a High-Cycle Accumulation Model 2.28
Mahmoud Ghazavi Ahmad Dehghanpour (Iran)	Dynamic Analysis of Piles Under Lateral Harmonic Vibration 2.29

SESSION 3a "Engineering Seismology: Near Fault and Directivity Effects, Geologic Indicators of Rupture Direction, Geometric Effects on Ground Motions, Motion Parameters for Design, Borehole Arrays, Interpretation of Field Array Data, Site Amplification"

Chavdar Kolev Martina G. Perikliyska	Example for Risk Estimation of Fault Appearance under the Place of Designed Skyscraper in Sofia 3.01a
---	--

- (Bulgaria)
- Kaveh Andisheh
Gholamreza Ghodrati Amiri
(Iran)
- Evolution of Iranian Standard No.2800 for Seismic Resistant Design of Near Source Buildings Based on Real Record of Iran 3.02a**
- Arun Bapat
(India)
- Development of Seismic Safety during Pre- and Co-Seismic Periods 3.04a**
- James Kaklamanos
Laurie G. Baise
(USA)
- Model Validation of Recent Ground Motion Prediction Relations for Shallow Crustal Earthquakes in Active Tectonic Regions 3.05a**
- Luca Lenti
(France)
Salvatore Martino
(Italy)
- The Leveled-Energy Multifrequencial Analysis for Deriving Dynamic Equivalent Signals (LEMA-DES): Application for an Earthquake Scenario 3.06a**
- Mohammad Khandan
Bakavoli
Ebrahim Haghshenas
(Iran)
- Experimental and Numerical Study of Topographic Site Effect on a Hill Near Tehran 3.07a**
- Kenji Yamasaki
Andy Vessely
Chris Carpenter
(USA)
- Selection of Ground Motion Records for Two Dam Sites in Oregon 3.10a**
- King H. Chin
Braydan Duree
Whitney Trent
Gustavo Ordonez
(USA)
- Evaluation of Seismic Response of a Site Class F Site Using Equivalent Linear and Nonlinear Computer Codes 3.11a**
- Anton Zaicenco
Sharlie Huffman
Iain Weir-Jones
(Canada)
- Seismic P-Wave Polarization in the Context of On-Site Early Warning System 3.12a**
- Rabia Z. Sarica
(USA)
- Selection of an Appropriate a_{max} for Liquefaction Analyses from One-Dimensional Site Response Analyses 3.13a**
- Hamed Khodadadi Tirkolaei
Morteza Jiryaei Sharahi
(Iran)
- Effect of Topographical Irregularities on Seismic Earthquake Response of Construction Site - 2D Numerical Analysis on Trapezoidal Valley Under Real Motion 3.14a**
- Timothy D. Ancheta
Jonathan P. Stewart
(USA)
- A Validation Study of a Seismically Induced Ground Strain Model using Strong Motion Array Data 3.16a**
- Norman Abrahamson
A. Anil Yunatci
(Turkey)
- Ground Motion Occurrence Rates for Scenario Spectra 3.18a**

Adda Athanasopoulos-Zekkos
(USA)

Variability in Earthen Levee Seismic Response due to Time-History Selection 3.19a

Dong-Yeop Kwak
(USA)
Duhee Park
Bang Woong Shin
Kwangkyun Kim
(Korea)

Uniform Hazard Response Spectra of Korea Considering Uncertainties in Ground Properties 3.20a

Tetsuo Tobita
Susumu Iai
Tomotaka Iwata
(Japan)

Numerical Analysis of Trampoline Effect in Extreme Ground Motion 3.22a

Xiaodan Sun
Xiixin Tao
Lijun Yin
Dongli Zhang
(China)

3-D Modeling of Shear-Wave Velocity for Numerical Green's Function in Near-Field Ground Motion Simulation 3.24a

Achilleas G. Papadimitriou
Yannis Chaloulos
(Greece)

Aggravation of the Peak Seismic Acceleration in the Vicinity of 2D Hills, Canyons and Slopes 3.26a

SESSION 3b "Local Site Effects: One Dimensional Wave Propagation Predictions and Measurements, Nonlinear versus Equivalent Linear Analysis, Effective Stress versus Total Stress Analysis"

Wei Zheng
Youssef Hashash
Mark M. Peterson
Andrew S. Whittaker
(USA)

Site Specific Response Analysis in the New Madrid Seismic Zone 3.01b

S. M. Mir Mohammad Hosseini
Mojde Asadolahi Pajouh
F. Mir Mohammad Hosseini
(Iran)

The Limitations of Equivalent Linear Site Response Analysis Considering Soil Nonlinearity Properties 3.02b

Geraldo R. Iglesia
James L. Stiadly
(USA)

Seismic Site Response Analysis Using Spreadsheets 3.03b

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

Chang-Gyun Jeong
(Korea)

Evaluation of Frequency Dependent Equivalent Linear Analysis 3.07b

- Dong-Yeop Kwak
(USA)
Duhee Park
Bang Woong Shin
(Korea)
- S. Krishna Kumar
A. Boominathan
(India)
- Fabian Bonilla
(France)
Francesca Bozzano
(Italy)
Celine Gélis
(France)
Annachiara Giacomi
(Italy)
Luca Lenti
(France)
Salvatore Martino
(Italy)
Jean-François Semblat
(France)
- Maria Paola Santisi d'Avila
Ali Gandomzadeh
Luca Lenti
Jean-François Semblat
Fabian Bonilla
(France)
Salvatore Martino
(Italy)
- Mustafa K. Koçkar
Haluk Akgün
(Turkey)
- R. Uma Maheswari
A. Boominathan
G.R. Dodagoudar
(India)
- Claudio di Prisco
Federico Pisanò
(Italy)
- M'hammed Badaoui
(France)
Mounir Khaled Berrah
(Algeria)
Ahmed Mebarki
(France)
- P. Anbazhagan
Abhishek Kumar
T.G. Sitharam
- Site Specific Seismic Analysis of a Deep Stiff Soil Site 3.08b**
- Multidisciplinary Study of Seismic Amplification in the Historical Center of Rome, Italy 3.09b**
- Non Linear Site Effects: Interest of One Dimensional - Three Component (1D - 3C) Formulation 3.12b**
- Evaluation of Local Site Conditions Using Ambient Seismic Noise Recordings: A Case Study from Ankara, Turkey 3.15b**
- Effective Stress v/s Total Stress Ground Response Analyses for a Typical Site in Chennai (India) 3.18b**
- 1D Dynamic Non-Linear Numerical Analysis of Earth Slopes: The Role of Soil Ductility and Time-Sensitiveness 3.19b**
- Layers Heights Randomness Effect on Seismic Response of a Site in Algiers (Algeria) 3.20b**
- Site Response Study of Deep Soil Column in Lucknow, India 3.21b**

- (India)
- A. Ferraro
Salvatore Grasso
Michele Maugeri
(Italy)
- Olga-Joan Ktenidou
Dimitris Raptakis
Kyriazis Pitilakis
(Greece)
- L. Govindaraju
C.A. Madhusudan
S.S. Quadri
(India)
- Topographic Site Effects Evaluation for the Monte Po Hill in the City of Catania (Italy) 3.22b**
- Weak Motion Linear Soil Amplification at Aegion, Greece, and Comparison with Seismic Design Codes 3.24b**
- A Study on the Seismic Response of Ground and Reinforced Concrete Buildings in Belgaum Region, India 3.25b**

SESSION 4a "Liquefaction and Seismically-Induced Settlement, Ground Failures, Seismic Studies of Kobe, Lima Peru, Chile, Pakistan, China, U.S. and other Recent Earthquakes, Spatial Liquefaction"

- Raghvendra Singh
Debasis Roy
(India)
- T.G. Sitharam
B.V. Ravishankar
(India)
J.S. Vinod
(Australia)
- Mitchell W. Weber
Alexandre J. Bredikhin
(USA)
- Peter K. Robertson
Lisheng Shao
(USA)
- Chihping Kuo
Muhsiung Chang
(Taiwan R.O.C.)
- Omid Naeemifar
S. Shahaboddin Yasrobi
(Iran)
- George Papathanassiou
Pavlidis Spyros
Valkaniotis Sotiris
(Greece)
- Tianfei Liao
Paul W. Mayne
- Residual Shear Strengths of Cohesionless Soils from Energy Approach 4.01a**
- A Note on the Effect of Non-Plastic Fines on the Liquefaction and Reconsolidation Volumetric Strain Behaviour of Sands 4.02a**
- Static Load Induced Liquefaction, Steels Corners Road Embankment Failure 4.03a**
- Estimation of Seismic Compression in Dry Soils using the CPT 4.05a**
- Verification of Potential Flaws in Computing Liquefaction Potential Index by 1999 Chi-Chi Earthquake in Taiwan 4.07a**
- A Study of Effective Factors on the Behavioural Characteristics of Clayey Sands 4.08a**
- Assessment of Liquefaction Susceptibility of Geological Units in the Area of Gulf of Corinth, Greece 4.09a**
- Estimating Seismic Parameters Associated with Previous Earthquakes by SCPTU Soundings in the NMSZ 4.11a**

- (USA)
- Sarat Kumar Das
(India) **Prediction of Lateral Displacement of Liquefaction Induced Ground Using Extreme Learning 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 Side-by-Side DMT and CPT Tests 4.14a**
- Daniela Porcino
Vincenzo Marciandò
(Italy) **Evaluating Liquefaction Resistance of a Calcareous Sand Using the Cone Penetration Test 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. El-Zahaby
(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 L. Torres
(USA) **Ground Motions and Liquefaction Potential 4.20a**
- Kodi Ranga Swamy
A. Boominathan
K. Rajagopal
(India) **Undrained Response and Liquefaction Behaviour of Non-Plastic Silty Sands under Cyclic Loading 4.21a**
- 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**

- Pelin Tohumcu Özener
Kutay Özaydın
(Turkey)
- Numerical Modelling of Liquefaction in Layered and Silt Inter Layered Sands 4.27a**
- Tom Farrell
Kyle Wallace
John Ho
(USA)
- Liquefaction Mitigation of Three Projects in California 4.28a**
- Usama El Shamy
Mourad Zeghal
Ricardo Dobry
Tarek Abdoun
- DEM Simulation of Liquefaction-Induced Lateral Spreading 4.30a**
- Sabanayagam Thevanayagam
Ahmed Elgamal
(USA)
- Usama El Shamy
Christina Denissen
(USA)
- Microscale Characterization of Energy Dissipation Mechanisms During Liquefaction 4.31a**
- 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 Önder Çetin
(Turkey)
- Effective Stress Based Numerical Assessment of Liquefaction-Induced Landslide at Degirmendere Cape, Izmit Bay During Kocaeli (Izmit)-Turkey Earthquake 4.34a**
- 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 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**
- 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**
- Jorge Meneses
(USA)
J. Alva
- Case Histories of Widespread Liquefaction and Lateral Spread Induced by the 2007 Pisco, Peru Earthquake 4.43a**

Tom O'Rourke (USA)	Lessons Learned from Large Scale Experiments of Ground Rupture Effects on Underground Lifelines SOAP8 (withdrawn)
J. David Rogers Deniz Karadeniz (USA)	Overview of the Seismic Threat in the Central United States SOAP9
Attila Ansal Gökçe Tönük Aslı Kurtuluş Mustafa Erdik Stefano Parolai (Turkey)	Modeling the Observed Site Response from Istanbul Strong Motion Network SOAP10
Bruce Kutter Lijun Deng Sashi Kunnath (USA)	Estimation of Displacement Demand for Seismic Design of Bridges with Rocking Shallow Foundations SOAP11
J.P. Singh (USA)	TBA (paper not received)

SYMPOSIUM IN HONOR OF PROFESSOR I.M. IDRIS (SPEAKERS)

Nadania Idriss (Germany)	Architecture as an Expression of Identity: Abbas Hilmi II and the Neo-Mamluk Style IMI1
W.D. Liam Finn (Canada)	I.M. Idriss, A Pioneer in Geotechnical Earthquake Engineering IMI3
Russell A. Green James K. Mitchell (USA)	Comparison of Energies Required to Densify Liquefiable Soil IMI2
Ricardo Dobry (USA)	Comparison Between Clean Sand Liquefaction Charts Based on Penetration Resistance and Shear Wave Velocity IMI4
Kenji Ishihara (Japan)	Performances of Rockfill Dams during Recent Large Earthquakes IMI5
Ross Boulanger (USA)	Sand Plasticity Model for Nonlinear Seismic Deformation Analyses IMI6
Raymond B. Seed (USA)	California's New Seismic Levee Engineering Programs IMI7 (paper not received)

(Peru)
B. Cox
(USA)
V. Moreno
M. Olcese
(Peru)
R. Sancio
J. Wartman
(USA)

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
A. Barari
(Iran)

Artificial Neural Network Model for Prediction of Liquefaction Potential in Soil Deposits 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
Zia Zafir
(USA)

Comparison of Three Procedures for Evaluating Earthquake-Induced Soil Liquefaction 4.48a

Syed Kazim Mahdi
(Pakistan)

Some Seismological Characteristics of Mw 4.50a

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)
Sik-Cheung Robert Lo
(Australia)
Misko Cubrinovski
(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

SESSION 4b "Stability and Displacement Performance of Slopes, Landfills and Earth Dams Under Earthquakes"

- | | |
|---|--|
| Aniruddha Sengupta
Debabrata Giri
(India) | Behavior of Nailed Steep Slopes in Laboratory Shake Table Tests 4.01b |
| Mohammad Hossein Tavakol
Ali Komak Panah
(Iran) | Assessing Horizontal Seismic Coefficients in Earth Dams with Regards to Expected Deformation 4.02b |
| Tryfon Thomaidis
Constantine A. Stamatopoulos
(Greece) | Accuracy of Empirical Equations Predicting Sliding-Block Displacement 4.03b |
| Constantine A. Stamatopoulos
Kostas Mavromihalis
(Greece)
Sarada Sarma
(United Kingdom) | The Effect of the Geometry Changes on Sliding-Block Predictions 4.04b |
| Amit Srivastava
G.L. Sivakumar Babu
(India) | Numerical Analysis of Failure of Rudramatha Dam Section During 26th January, 2001 Bhuj Earthquake 4.05b |
| Mohamed Arab
Edward Kavazanjian, Jr.
Neven Matasovic
(USA) | Nonlinear Time-Domain Analysis of a Sliding Block on a Plane 4.08b |
| Ivan Gratchev
Ikuo Towhata
(Japan) | Geotechnical Characteristics of Seismically-Induced Aratozawa Landslide, Japan 4.10b |
| 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 |
| Yanhui Han
Roger Hart
(USA) | Seismic Analysis of the Reservoir-Earth Dam-Pore Fluid System Using an Integrated Numerical Approach 4.15b |
| Wolfgang Roth
C.B. Crouse
Ethan M. Dawson
Bei Su
(USA) | Seismic Performance Evaluation of a Submarine Gas Pipeline 4.16b |
| A.Ghosh
S.Sarkar | Stability Assessment and Suggestion for Control Measures of a Potential Landslide Slope on NH 94, Uttarakhand Himalaya, |

- D.P.Kanungo
P.K.S. Chauhan
Zamir Ahmad
(India)
- Anton Chirica
Dragos Vintila
Diana Tenea
(Romania)
- Indrajit Roy
(India)
- Roxane Foulser-Piggott
Peter J. Stafford
(United Kingdom)
- Michelle Theron
Fritz Wagener
(South Africa)
Phillip Steenkamp
(Ghana)
- Francesca Bozzano
Eliana Esposito
(Italy)
Luca Lenti
(France)
Salvatore Martino
Alfredo Montagna
Antonella Paciello
Sabina Porfido
(Italy)
- David Rees Gillette
(USA)
- P. K. Basudhar
Mothilal Bhookya
(India)
N.S.V. Kameswara Rao
(Malaysia)
Arindam Dey
(India)
- Tensay G. Berhe
Wu Wei
(Austria)
- Keiichi Ota
Keiichi Itoh
Yuichi Ueno
- India 4.17b**
- The Stability and Deformation Limit State Corresponding to the High Road Embankments Close to a Bridge 4.19b**
- Design of an External Waste Rock Dump in an Opencast Coal Mine Standing Against a Hill in Seismic Prone Area of India 4.22b**
- Incorporation of the Spatial Correlation of Arias Intensity within Earthquake Loss Estimation 4.23b**
- Seismic Stability Assessment the Raising of the Geita Tailings Storage Facility, Tanzania 4.24b**
- Numerical Modelling of Earthquake-Induced Rock Landslides: The 1783 Scilla Case-History (Southern Italy) 4.25b**
- On the Use of Empirical Correlations for Estimating the Residual Undrained Shear Strength of Liquefied Soils in Dam Foundations 4.26b**
- 2D FEM Analysis of Earth and Rockfill Dams Under Seismic Condition 4.28b**
- Effect of Canyon Geometry and Ground Conditions on the Seismic Performance of Tendaho Earthfill Dam in Ethiopia 4.29b**
- Centrifuge Model Tests of Tieback Anchors and Drainage Pipes for Stabilization of Slopes Under Earthquake Loads 4.30b**

Koji Takeya
Senro Kuraoka
Takaya Hiroshima
(Japan)

A Probabilistic Method for the Prediction of Earthquake-Induced Slope Displacements 4.31b

Simone Barani
(Italy)
Paolo Bazzurro
(USA)
Fabrizio Pelli
(Italy)

Seismic Stability of the Nailed Slopes 4.32b

Mehdi M. Waseem
(USA)
Agarwal Pratibh
(India)

Static and Dynamic Behavior of Earthen Slopes in the Region of Uttarkashi, India 4.37b

Govardhan Bhat
Navjeev Saxena
S.K. Prasad
(India)

An Empirical Predictive Relationship for Assessing the Seismic Stability of Slopes 4.39b

Jongwon Lee
Russell A. Green
Rachel Finch
(USA)

Effect of a Slope on the Dynamic Properties of Diluvial Terrace 4.40b

Shoichi Nakai
Yoko Nagata
Toru Sekiguchi
(Japan)

Seismic Slope Stability of Reactivated Landslides - A Performance Based Analysis 4.41b

Binod Tiwari
Keyur Ajmera
Mike Hillman
Beena Ajmera
(USA)

Using Recorded Earthquake Signals for Dynamic Analysis of Masjed Soleiman Embankment Dam 4.43b

Masoud Amel Sakhi
Mohammad Davoodi
M.K. Jafari
(Iran)

Improved Methodology for the Estimation of Seismic Coefficients for the Pseudo-Static Stability Analysis of Earthdams 4.44b

Achilleas G. Papadimitriou
Konstantinos I. Andrianopoulos
George D. Bouckovalas
Kostas Anastasopoulos
(Greece)

3D Analysis of the Seismic Response of Seven Oaks Dam 4.46b

Lelio Mejia
Ethan Dawson
(USA)

Seismic Behavior of Asphaltic Concrete Core Dams 4.47b

Ali Ghanbari
Mohsen Mojezi
Meysam Fadaee
(Iran)

Assessment of Soil-Nailed Excavations Seismic Failure Under

Ali Komak Panah

Sina Majidian (Iran)	Cyclic Loading and Pseudo-Static Forces 4.48b
Dalia S. Youssef Abdel Massih (Lebanon)	Dynamic Slope Stability Analysis by Reliability-Based Approach 4.51b
Abdul-Hamid Soubra (France)	
Jacques Harb (Lebanon)	
Mohamed Rouainia (United Kingdom)	
Maryam Malekian Amirata Taghavi	The Effects of Canyon Topography on Dynamic Stress Distribution in Earth Dams 4.52b
Mohammad Hassan Baziar Shirin Salemi (Iran)	
Ha H. Bui	Earthquake Induced Slope Failure Simulation by SPH 4.53b
R. Fukagawa K. Sako Y. Okamura (Japan)	
Susumu Yasuda Takafumi Tsuruda (Japan)	Cyclic Torsional Shear Tests to Obtain Dynamic Soil Properties for Seismic Design of Road Embankments 4.57b
Hamid Karimian Somasundaram Sriskandakumar	The Effect of Earthquake Record Scaling Technique on Embankment Dam Response 4.58b
Adrian Wightman Li Yan (Canada)	
Huynh Dat Vu Khoa Hans Petter Jostad (Norway)	Finite Element Modeling of the Las Colinas Landslide Under Earthquake Shaking 4.61b
Radhakanta Koner Debashish Chakravarty (India)	Evaluation of Seismic Response of External Mine Overburden Dumps 4.63b
A.K. Pachauri (India)	Landslide Hazard Mapping and Assessment in Himalayas 4.65b
Vlatko Sesov (Macedonia)	Repair of Landslide "Umka-Duboko" - Seismic Performance Assessment 4.66b
Zeljko Zugic (Serbia)	

SESSION 5a "Soil-Structure Interaction under Dynamic Loading, for both Shallow and Deep Foundations"

Pranesh Chatterjee **Non-Stationary Soil-Structure Interaction Analysis of a SDOF**

- (Netherlands)
Biswajit Basu
(Ireland)
- 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**
- 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)
- Seismic Performance of Double EPS Geofom Buffer Systems 5.10a**
- Eui-Kyu Yang
Sun-Yong Kwon
Jung-In Choi
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 and 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
George Anoyatis George Mylonakis (Greece)	Dynamic Winkler Modulus for Axially Loaded End-Bearing Piles 5.22a
Stefano Renzi Giovanni Vannucchi Claudia Madiari (Italy) George Mylonakis (Greece)	Influence of Soil-Structure Interaction on Seismic Response of Shear Buildings 5.23a
Francesco Castelli Valentina Lentini Michele Maugeri (Italy)	A Simplified Approach for the Evaluation of Kinematic Pile Bending 5.24a
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
Shuji Tamura Keisuke Adachi Kohji Tokimatsu (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
Esteban Saez Fernando Lopez-Caballero Arezou Modaresi-Farahmand	Effect of Elastic and Inelastic DSSI on Seismic Demands of SDOFS Structures 5.37a

- Razavi
(France)
- Domenico Lombardi
(United Kingdom)
- Maria Giovanna Durante
(Italy)
- Suresh R. Dash
Subhamoy Bhattacharya
(United Kingdom)
- S.Vijaya
S. Gangadhara
(India)
- Konstantinos Giannakos
(Greece)
- Konstantinos Giannakos
(Greece)
- Hamed Saeidi
Mansour Nikkhah-Bahrami
(Iran)
- Ali Gandomzadeh
Maria Paola Santisi d'Avila
Jean-François Semblat
Luca Lenti
Fabian Bonilla
(France)
- Fereidoun Amini
Masoud Shadlou
(Iran)
- C. Guney Olgun
James R. Martin II
(USA)
- Henry B. Mason
Jonathan D. Bray
Katherine C. Jones
ZhiQiang Chen
Tara C. Hutchinson
Nicholas Trombetta
Benjamin Choy
Bruce L. Kutter
Gregg Fiegel
Jack Montgomery
Roshani J. Patel
Robert Reitherman
Chandrananth Bolisetti
Andrew Whittaker
- Fixity of Piles in Liquefiable Soils 5.39a**
- Experimental Study on the Performance of Reinforced Sand Beds Under Repeated Loads in Presence of Water 5.40a**
- Interaction Between Superstructure and Substructure in Railways 5.41a**
- Stiffness Coefficient in the Transition Zone Between Ballasted and Ballastless Track and its Influence on Formation Stressing 5.42a**
- The Effect of Step Load Moving on the Surface of a Cylindrical Cavity Using Neural Networks 5.43a**
- Influence of Soil Nonlinearities on Dynamic Soil-Structure Interaction 5.44a**
- Effects of Recorded Free-Field Motion on the Response of Buildings Considering Soil-Structure Interaction Effects 5.46a**
- Seismic Performance of Soil-Mix Panel Reinforced Ground 5.47a**
- Earthquake Input Motions and Seismic Site Response in a Centrifuge Test Examining SFSI Effects 5.48a**

(USA)

ZhiQiang Chen
Tara C. Hutchinson
Nicholas Trombetta
Henry B. Mason
Jonathan D. Bray
Katherine C. Jones
Chandrakanth Bolisetti
Andrew Whittaker
Benjamin Choy
Bruce L. Kutter
Gregg Fiegel
Jack Montgomery
Roshani J. Patel
Robert Reitherman

(USA)

Hiroko Suzuki
Kohji Tokimatsu
(Japan)

Manish V. Shah
A.V. Shroff
(India)

Jinchi Lu
Ahmed Elgamal
Charles Sikorsky
Thomas Shantz
(USA)

Zhao Cheng
Hubert Law
Yang Jiang
(USA)

Lisa M. Anderson
Tarek Elkhoraibi
(USA)

Francesco Grassi
Maria Rossella Massimino
(Italy)

Pulikanti Sushma Ramancharla
Pradeep Kumar
(India)

A.M. Sheikhabaei
A.M. Halabian
S.H. Hashemolhosseini
(Iran)

Sascha Richter
Roberto O. Cudmani
(Germany)

Seismic Performance Assessment in Dense Urban Environments: Evaluation of Nonlinear Building-Foundation Systems Using Centrifuge Tests 5.49a

Effects of Soil-Structure Interaction on Stress Distribution Within a Pile Group Under Multi-Dimensional Loading 5.50a

Soil-Structure Interaction of Soft Clay Using Prefabricated Vertical Geodrains Under Seismic Stresses 5.53a

Computational Modeling of a Large Pile Group Under Lateral Load 5.54a

Soil-Structure Interaction Analysis for Bridge Caisson Foundation 5.55a

Structure-To-Soil-Structure Interaction Analysis: A Case Study 5.56a

FEM Modelling of a 3D Soil-Pile System Under Earthquakes 5.57a

Dynamic Soil Structure Interaction Analysis of Pile Supported High Rise Structures 5.58a

Analysis of Soil Nailed Walls Under Harmonic Dynamic Excitations Using Finite Difference Method 5.59a

Numerical Analysis of Disconnected Spread Footing on Soft Soil during Strong Earthquake 5.61a

- Tang Liang
Ling Xianzhang
Xu Pengju
Gao Xia
(China)
- Masoomeh Khodabakhshi
Mohammad Hassan Baziar
(Iran)
- Nikos Gerolymos
V. Drosos
George Gazetas
(Greece)
- Raffaele Figini
(Italy)
- C. T. Chatzigogos
(France)
- Roberto Paolucci
(Italy)
- Mahmoud Ghazavi
Amid Madhoushi
(Iran)
- Javad Nazari Afshar Mahmoud
Ghazavi
Khashayar Hemmati
(Iran)
- Mahmoud Ghazavi
Pedram Ravanshenas
(Iran)
- Mahmoud Ghazavi
Mobin Afzalirad
(Iran)
- Pirooz Barar
Qing Liu
(USA)
- Daniela Boldini
Angelo Amorosi
Fabrizio Palmisano
(Italy)
- Takashi Tazoh
Masayoshi Sato
Jiho Jang
Yoichi Taji
(Japan)
- George Gazetas
(Greece)
- Lateral Response of Bridge Pile Groups in Liquefiable Soil with Surface Non-Liquefiable Layer Using Shaking Table Test 5.62a**
- Evaluation of Deformation Behavior of Quay Walls Under Earthquake Loading 5.64a**
- Seismic Response of Inelastic Pile Foundations: A New Performance Based Design Philosophy 5.65a**
- A Simple Numerical Tool for Dynamic Soil-Structure Interaction Analyses Including Nonlinear Behaviour of Both Structure and Foundation 5.69a**
- Influence of Concentrated Mass on Pile Response Under Vertical Earthquake Excitation 5.75a**
- Analytical Method for Seismic Bearing Capacity of Stone-Column Reinforced Shallow Foundations 5.76a**
- An Analytical Solution for Pile-Soil-Pile Interaction with Unequal Length Under Vertical Harmonic Vibrations 5.77a**
- Investigation of Non-Uniform Pile Behaviour Under Torsional Harmonic Vibration 5.78a**
- Times-History Finite Element Dynamic Analysis - Soil Nail Wall - San Manuel Casino - Highland, California 5.79a**
- Analysis of Tunnel Behaviour Under Seismic Loads by Means of Simple and Advanced Numerical Approaches 5.80a**
- Seismic Behavior of Batter Pile Foundation: Kinematic Response 5.81a**

OTHER SPECIAL PRESENTATIONS

- Karina R. Dahl
Jason T. DeJong
Ross Boulanger
Michael W. Driller
(USA)
Effects of Sample Disturbance and Consolidation Procedures on Cyclic Strengths of Intermediate Soils OSP1
- Jonathan D. Bray
Shideh Dashti
(USA)
Liquefaction-Induced Movements of Buildings with Shallow Foundations OSP2
- Ikuo Towhata
Trinh Thi Lan Anh
Suguru Yamada
Ramin Motamed
Yoshikazu Kobayashi
(Japan)
Zero-Gravity Triaxial Shear Tests on Mechanical Properties of Liquefied Sand and Performance Assessment of Mitigations Against Large Ground Deformation OSP3
- Youssef Hashash
David R. Groholski
Camilo Phillips
(USA)
Recent Advances in Nonlinear Site Response Analysis OSP4
- Sabanayagam Thevanayagam
(USA)
Liquefaction, Screening, and Remediation of Silty Soils OSP5
- Neven Matasovic
(USA)
Recent Advances in Seismic Design of Geosynthetically-Lined Waste Containment Facilities OSP6
- Robert Kayen
Jonathan P. Stewart
Brian D. Collins
(USA)
Recent Advances in Terrestrial LIDAR Applications in Geotechnical Earthquake Engineering OSP7
- Gopal Madabhushi
Stuart K. Haigh
(United Kingdom)
Liquefaction Induced Settlement of Structures OSP8
- Kyle Rollins
Matthew E. Adsero
Mark A. Herbst
Nathan Lemme
(USA)
Ground Improvement for Increasing Lateral Pile Group Resistance OSP9
- T.G. Sitharam
P. Anbazhagan
K.S. Vipin
(India)
Principles and Practices of Seismic Microzonation: Case Studies in India OSP10
- Lanmin Wang
Zhongxia Yuan
Haimei Sun
Jin Deng
(China)
Criteria, Prediction and Prevention of Loess Liquefaction OSP11

SESSION 5b "Soil-Foundation Interaction Triggered by Seismic Faulting"

Chaudhari Vasudeo Govind
Ramancharla Pradeep Kumar
(India)

Numerical Modeling of Buried Pipeline Crossing a Fault 5.02b

Ioannis Anastasopoulos
Takis Georgarakos
Rallis Kourkoulis
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

SESSION 6a "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)

A Review 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
Aditya Parihar Navjeev Saxena D.K. Paul (India)	Effects of Wall-Soil-Structure Interaction on Seismic Response of Retaining Wall 6.15a
J. Matos e Silva (Portugal)	Diaphragm Walls Seismic Design According to the Eurocodes 6.16a
Zhiqiang Li Jinbei Li Yaping Kong (China)	Analysis of Aseismic Reliability Considering the Uncertainties Both Structural Parameters and Earthquake Loadings for the Gravity Type Earth-Retaining Wall 6.18a
Guoxi Wu (Canada)	Seismic Soil Pressures on Rigid Walls with Sloped Backfills 6.20a
Omar Al-Farouk Salem Al-Damluji Akram Younis Thannon Al-Sa'aty Rafi Mahmoud Sulaiman Al-Nu'aimi (Iraq)	Effects of Internal Gas Explosion on an Underwater Tunnel Roof 6.22a
Binod Shrestha Hadi Khabbaz (Australia)	Application of Vertical Reinforcement for Performance Enhancement of Reinforced Soil Under 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 Simulation of the Performance of Cantilever Walls Subjected to Seismic Loading 6.27a

SESSION 6b "Seismic Zonation: Earthquake Risk Assessment with Earthquake Risk Management, Microzonation Projects in California and Worldwide, Use of Building Codes to Reduce Earthquake Hazards"

Kaveh Andisheh

Preparation the Site Specific Spectrum for Civil Regions of

Seydeh Sara Hossini
Motaza Taghizadeh
(Iran)

Zagross Mountains 6.02b

Kaveh Andisheh
Gholamreza Ghodrati Amiri
Motaza Taghizadeh
(Iran)

Evaluating Seismicity Parameters of Sanandaj, Iran Based On Instrumental Earthquakes 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)
S. Yaghmaei Sabegh
(Iran)

An Alternative Method for Site-Specific Probabilistic Seismic-Hazard Assessment: A Case Study of Three Cities 6.07b

P. Anbazhagan
(India)
M. Neaz Sheikh
(Australia)
T. G. Sitharam
(India)
J. S. Vinod
(Australia)

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

Luis Osorio Flores
Juan M. Mayoral Villa
Miguel P. Romo
(Mexico)

Seismic Microzonation of the Texcoco Lake Area, Mexico 6.10b

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 Capilleri
Michele Maugeri

Geotechnical and Seismic Risk Evaluation in Urban Areas 6.13b

- Erminia Raciti
(Italy)
- Jan Willem Roelof Brouwer
Torild Van Eck
Femke Goutbeek
A.C.W.M. Vrouwenvelder
(Netherlands)
- Gloria M. Estrada
(Colombia)
- Syed M. Ali Jawaid
(India)
- Vera Pessina
Emilia Fiorini
Roberto Paolucci
(Italy)
- Chavdar Kolev
Martina G. Perikliyska
(Bulgaria)
- The Meaning of Eurocode 8 and Induced Seismicity for Earthquake Engineering in the Netherlands 6.14b**
- Analysis of Earthquake Site Response and Site Classification for Seismic Design Practices 6.16b**
- Comparison of Liquefaction Potential Evaluation Based on Different Field Tests 6.17b**
- GIS-Based Identification of Topographic Sites in Italy with Significant Ground Motion Amplification Effects 6.20b**
- Geotechnical Preconditions for Skyscrapers Construction in Bulgaria and Seismic Risk Aspect 6.23b**

SESSION 7a "Seismic Analysis and Retrofit of Foundations of Bridges and Other Sub-Structures, Seismic Retrofit Projects and Procedures in California"

- M.R. Malek Mohammad
(Iran)
- S.C. Chian
S.P. G. Madabhushi
(United Kingdom)
- Te-Chih Ke
Hubert Law
Po Lam
Brian Maroney
Saba Mohan
Jason Weinstein
(USA)
- Juan M. Mayoral
Francisco A. Flores
Miguel P. Romo
Manuel J. Mendoza
(Mexico)
- Ch. A. Dzhantimirov
S.A. Rytov
- The Influence of Irregularity on the Values of Demand Modifier Factor in ASCE 41-06 7.02a**
- Floatation of Tunnel in Liquefiable Soil 7.04a**
- Ground Motion Study on Dumbarton Toll Bridge 7.05a**
- Numerical Study of the Seismic Response of an Urban Overpass Support System 7.06a**
- Application of High-Power Electrical Sparks for Dynamic Compaction of Soil 7.10a**

S.A.Kryuchkov
(Russia)

SESSION 7b "Case Histories of Geotechnical Earthquake Engineering, Failures and Geotechnical Analysis of Recent Earthquakes"

- | | |
|---|---|
| Abouzar Sadrekarimi
(Canada) | Earthquake Induced Excess Pore Water Pressures in the Upper San Fernando Dam during the 1971 San Fernando Earthquake 7.01b |
| Timothy D. Starke
(USA) | |
| Hamed Niroumand
(Iran) | Performance of Solid Waste Soil in Earthquake of Boroujerd and Silakhor Earthquake 7.04b |
| Dimitra Manou
Maria Manakou
Maria Alexoudi
Anastasios Anastasiadis
Kyriazis Pitilakis
(Greece) | Microzonation Study of Duzce, Turkey 7.12b |
| Howard Plewes
Bob Chambers
Rick Friedel
Terence Jibiki
Alex Sy
(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, De

- | | |
|--|--|
| Leo Handfelt
Ivan Wong
Patricia Thomas
Timothy Dawson
Jim Zhou
Nicola Kavanagh
(USA) | Seismic Hazard Evaluation for Design of San Vicente Dam Raise 7.01c |
| James R. Gingery
Scott H. Rugg
Thomas K. Rockwell
Bruce R. Hilton
(USA) | Fault Hazard Characterization for a Transportation Tunnel Project in Coronado, California 7.02c |
| Lisheng Shao | Vibro Replacement and Soil Mixing Ground Improvements at a |

- Jack Kinley
(USA) **Shopping Mall Site in San Diego, California, USA 7.03c**
- Garry W. Cannon
Joseph J. Vettel
Shawn Weedon
(USA) **San Diego Seismic Study - Lane Field 7.04c**
- Sunil Arora
Lisheng Shao
(USA) **Vibro Replacement for Liquefaction Hazard Mitigation for Operational Storage Facility in Coronado, California, USA 7.05c**
- Thomas K. Rockwell
(USA) **The Rose Canyon Fault Zone in San Diego 7.06c**
- 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, NCREE"

- Sayed Hemeda
(Egypt)
Kyriazis Pitilakis
Elias Bakasis
(Greece) **Three Dimensional Stability Analysis of the Central Rotunda of the Catacombs of Kom El-Shoqafa, Alexandria, Egypt 8.01**
- Ashwini Kumar Dube
(India) **Assessment of Rock Pressure for Tunnels in the Himalayan Region - A Case History 8.02**
- 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 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
Thaleia Travararou
(USA) **Numerical Analyses of Centrifuge Models of the BART Transbay Tube 8.08**
- Scott Olson
Youssef M.A. Hashash **Using Tactile Pressure Sensors to Measure Lateral Spreading-induced Earth Pressures Against a Large, Rigid Foundation**

Mark Muszynski Camilo Phillips Carmine Polito (USA)	8.09
Masayoshi Sato Kentaro Tabata Akio Abe (Japan)	Large-Scale Shake Table Test on Lateral Spreading of a Sheet-Pile Wall Model and its Centrifuge Simulation 8.10
K.S. Beena (India)	Ground Improvement using Stone Column 8.11
Saman Zarnani Richard J. Bathurst W. Andy Take (Canada)	Shaking Table Methodology and Instrumentation for Reinforced Soil Retaining Walls 8.13
Barbara J. Chang Tara C. Hutchinson (USA)	Experimental Investigation of Plastic Demands in Piles During Lateral Spread-Induced Loads 8.14
Ozgur 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
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
Mohammad Hassan Baziar Amir Hossein Ghaderinia	Evaluation of Seismic Demand of Pile Foundation for Performance Based Design 9.04

- (Iran)
- Thomas Oommen
Laurie G. Baise
(USA)
- Scott J. Brandenburg
Pirooz Kashighandi
(USA)
- Yasser Abdelghany
Hesham El Naggari
(Canada)
- T.G. Sitharam
K.S. Vipin
(India)
- Jiunn-Shyang Chiou
Cheng-Hsing Chen
(Taiwan R.O.C.)
- Ramez Alchamaa
Mitutoshi Yoshimine
(Japan)
- A Practical Approach for Implementing the Probability of Liquefaction in Performance Based Design 9.06**
- Application of Concave-Up P-Y Elements in Static Analysis of Piles in Laterally Spreading Ground 9.07**
- Monotonic and Cyclic Behaviour of Helical Screw Piles Under Axial and Lateral Loading 9.08**
- Liquefaction Potential Evaluation Based on Site Classes - A Performance Based Approach 9.09**
- Displacement Ductility Capacity of Fixed-Head Piles 9.10**
- Determination of the Proper Thickness of Sublayers for Analyzing Post-Liquefaction Deformation Associated with Seepage of Pore Water After Earthquake 9.11**

Sissy Nikolaou
James Go
TC Michael Law
James L. Kaufman
(USA)

**Seismic Design Criteria for Critical Water Supply Facilities
Incorporating Performance-Based Concepts OSP12**

George Mylonakis
(Greece)

**Incorporating Kinematic Pile Bending into Seismic Codes:
Experience from a European National Project OSP13**

EARTHQUAKE SPEAKERS

Lanmin Wang
(China)

Geotechnical Aspects of the 2008 China Earthquake EQ1

Susumu Yasuda
Tomohiro Tanaka
(Japan)

Geotechnical Aspects of Recent Japan Earthquakes EQ2

Sarfraz Ali
Liaqat Ali
Muhammad Ammar
(Pakistan)

Geotechnical Aspects of Recent Pakistan Earthquakes EQ3

Roberto Paolucci
Chiara Smerzini
(Italy)

**Strong Ground Motion in the Epicentral Region of the Mw 6.3,
Apr 6 2009 L'Aquila Earthquake, Italy EQ4**

Tom Rockwell
(USA)

**The Non-Regularity of Earthquake Recurrence in California:
Lessons from Long Paleoseismic Records from the San
Andreas and San Jacinto Faults in Southern California, and
the North Anatolian Fault in Turkey EQ5**

Ronaldo Luna
(USA)

**Reconnaissance Report of the May 28, 2009 Honduras
Earthquake, M 7.3 EQ6**

Jennifer Donahue
(USA)

**September 2009 American Samoa Tsunami EQ7 (presentation
only)**

TBA

2010 Haiti Earthquake (presentation only)

SPECIAL LECTURES

Jost Studer
(Switzerland)

**Site Amplification Studies for NPP Sites in Switzerland within
the Project PEGASOS and PRP SPL1**

Yingcai Han

Practical Seismic Design Considering Non-Linear Soil-Pile-

(Canada) Shin-Tower Wang (USA)	Structure Interaction SPL2
Sanjeev Kumar Tim Holcomb Shahram Pezeshk (USA)	Ground Improvement to Reduce Liquefaction Potential Using Vibrocompaction and Stone Columns SPL3
Hesham El Naggar (Canada)	A Structural Engineer's Approach to Efficient SFSI: Towards Performance Based Design SPL4
Ion Vlad (Romania)	Machine Foundations and Blast Engineering Vibrations Case Studies SPL5
Vlad Perlea Michael H. Beaty (USA)	Corps of Engineers Practice in the Evaluation of Seismic Deformation of Embankment Dams SPL6
Barnali Ghosh Zygmunt Lubkowski (United Kingdom) Jack Pappin (Hong Kong)	The Importance of Creating Value and Safety in Seismic Design SPL7
Jorge Meneses (USA)	Dealing in Practice with Selecting and Modifying Earthquake Ground Motions for Nonlinear Analysis SPL8
Rodrigo Salgado (USA)	Liquefaction Resistance SPL10
Ellen Rathje George Antonakos (USA)	Recent Advances in Predicting Earthquake-Induced Sliding Displacements of Slopes SPL12
Kyriazis Pitilakis Anastasios Anastasiadis Kalliopi Kakderi Maria Alexoudi Sotiris Argyroudis (Greece)	The Role of Soil and Site Conditions in the Vulnerability and Risk Assessment of Lifelines and Infrastructures. The Case of Thessaloniki (Greece) SPL13
C. Guney Olgun (USA)	Seismic Response of Columnar Reinforced Ground SPL14
Anoosh Shamsabadi Hubert K. Law (USA)	Current Seismic Soil-Foundation-Structure Interaction State of the Art and Practice on California Toll Bridge Program SPL15
Filippo Ciuffi (Italy)	An Innovative Procedure for the Rapid Mapping of Urban Earthquake Vulnerability SPL16

GEER SESSION (SPEAKERS ONLY – no papers received)

Jonathan Bray (USA)	GEER Overview & Accomplishments
Brady Cox (USA)	Recent GEER Post-Event Reconnaissance
Jonathan Stewart (USA) Francesco Silvestri (Italy)	2007 Ica-Pisco, Peru Earthquake Reconnaissance
Jonathan Stewart (USA) Francesco Silvestri (Italy)	2009 L'Aquila, Italy Earthquake Reconnaissance
Rob Kayen (USA)	Emerging Reconnaissance Technologies & Practices
Kazuo Konagai (Japan)	Reconnaissance Tools & Google Earth
David Frost (USA)	Use of New Technologies
William Holmes (USA)	Data Collection and Protocols
Ellen Rathje (USA)	Impacts from Learning from Earthquakes
TBA	Remote Sensing
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

**SESSION 1a "Dynamic Properties of Soils and Soil-Like Materials,
Engineering Soil Parameters and Constitutive Relations"**

Constantine A. Stamatopoulos (Greece)	Constitutive Models Predicting the Response of Clays along Slip Surfaces 1.03a
Luling Yang Lynn Salvati (USA)	Small Strain Properties of Sands with Different Cement Types 1.05a
Jafar Naji Hamodi Ramin Sadeghi (Iran)	InSAR Technique to Allocate Land Subsidence in Karaj, and Tehran (Shehriar-Waramin and Djadjroud) Areas 1.06a
Mahdi Taiebat (Canada) Amir M. Kaynia (Norway)	A Practical Model for Advanced Nonlinear Analysis of Earthquake Effects in Clay Slopes 1.09a
Fardin Jafarzadeh Hamed Sadeghi (Iran)	Dynamic Properties of Sand in Constant-Volume and Constant-Load Tests 1.11a
Mladen Vucetic Macan Doroudian David Sykora (USA)	Cyclic Compression of Compacted Clayey Sand at Small Cyclic Strains 1.14a
Kentaro Tabata (Japan) Mladen Vucetic (USA)	Threshold Shear Strain for Cyclic Degradation of Three Clays 1.15a
Swami Saran B. K. Maheshwari H. P. Singh (India)	Liquefaction Studies of the Solani Sand Reinforced with Geogrid 1.18a
Erin Leung Jack Pappin Raymond Koo (Hong Kong)	Determination of Small Strain Modulus and Degradation for In-Situ Weathered Rock and Old Alluvium Deposits 1.20a
Muge Akin (Turkey) Steven L. Kramer (USA) Tamer Topal (Turkey)	Comparison of Measured and Estimated Shear Wave Velocities in a Seismically Active Area (Erbaa, Turkey) 1.21a
M. Murat Monkul Jerry A. Yamamuro (USA)	The Effect of Nonplastic Silt Gradation on the Liquefaction Behavior of Sand 1.23a
Man T. Bui C.R.I. Clayton Jeffrey A. Priest (United Kingdom)	The Universal Void Ratio Function for Small Strain Shear Modulus 1.24a
J. Yang	Failure of Saturated Sand in Non-Symmetrical Cyclic Loading

- H.Y. Sze
(Hong Kong)
- Giuseppe Modoni
Anna Gazzellone
(Italy)
- Noriaki Sako
Masashi Kawamura
Yukio Shimomura
Yoshio Ikeda
(Japan)
- A. Cavallaro
Salvatore Grasso
Michele Maugeri
(Italy)
- B.N. Madhusudhan
Jyant Kumar
(India)
- Aaron J. Geiger
Ronald C. Boller
Ronald D. Andrus
Hossein Hayati
Tahereh Heidari
William M. Camp, III
(USA)
- Mark J. Carlson
(USA)
- Kwangkyun Kim
Duhee Park
(Korea)
- Sumit Ghose
Ambarish Ghosh
(India)
- H.N. Ramesh
M.T. Prathap Kumar
(India)
- Nader Shariatmadari
(Iran)
- Sandro Lemos Machado
(Brazil)
- Ali Noorzad
Mehran Karimpour-Fard
Mohsen Keramati
Seyyed Hossein Jafari Kalarijani
(Iran)
- Selman Sağlam
B. Sadık Bakır
(Turkey)
- 1.25a**
- Simplified Theoretical Analysis of the Seismic Response of Artificially Compacted Gravels 1.28a**
- Development of a New Geomaterial for Base Isolation Foundations 1.29a**
- Dynamic Site Characterization by the Seismic Dilatometer Marchetti Test in Central Italy 1.31a**
- Dynamic Properties of Rubber Specimens 1.33a**
- Estimating Liquefaction Potential of a 200,000-Year-Old Sand Deposit Near Georgetown, South Carolina 1.34a**
- An Evaluation of Ground Vibrations Induced by Heavy Free-falling Structural Elements 1.35a**
- Evaluation of Liquefaction Potential of Soil by Down Borehole Method 1.36a**
- Resonant Frequency of Model Footings Resting on Finite Saturated Sand Stratum 1.38a**
- Evaluation of Loading Rate on the Mechanical Behavior of Saturated MSW Materials in Undrained Condition 1.41a**
- Cyclic Response of Reconstituted Low Plasticity Silt 1.47a**

- R.P. Sharma
(India) **Soil Improvement Techniques for Mitigation of Seismic Hazards: An Overview 1.49a**
- Omer Faruk Capar
(Turkey)
Isao Ishihashi
(USA) **Recovery of Elastic Parameters for Cross-Anisotropic Sandy Soil via Elastic Wave Measurements 1.51a**
- V.A. Barvashov
Ch.A. Dzhantimirov
I.M. Iovlev
P.V. Kharlamov
S.A. Rytov
(Russia) **Seismic Behavior of Nailed Soil Massifs 1.54a**
- T. Wichtmann
Th. Triantafyllidis
(Germany) **On the Influence of the Grain Size Distribution Curve on Dynamic Soil Properties of Quartz Sand 1.55a**
- Fred (Feng) Yi
(USA) **Procedure to Evaluate Liquefaction-Induced Lateral Spreading Based on Shear Wave Velocity 1.57a**
- Huriye Bilsel
Göknur Erhan
(N. Cyprus)
Turan Durgunoglu
(Turkey) **Assessment of Liquefaction/Cyclic Failure Potential of Alluvial Deposits on the Eastern Coast of Cyprus 1.58a**
- Woong-Jong Park
(Korea) **Effect of Degree of Weathering on Dynamic Properties of Weathered Granite Soils 1.59a**

SESSION 1b "New Field and Laboratory Methods and Results, Data Base, Large Scale Field Tests, Centrifuge Tests"

- Neelima Satyam
K.S. Rao
(India) **Multi Channel Analysis of Surface Wave (MASW) Testing for Dynamic Site Characterization of Delhi Region 1.01b**
- Kayhan Aykin
Onder Akckal
H. Turan Durgunoğlu
Ozer Akbal
(Turkey) **Comparison of Dynamic Soil Modelling Using SCPT, SDMT and SASW 1.02b**
- Julian Sandoval
Pedro de Alba
Thomas P. Ballesterro
Barry K. Fussell
(USA) **Residual Strength of Liquefied Sand: Laboratory Vs. Field Measurements 1.05b**
- Luljeta Bozo **Field and Laboratory Tests in Seman Deposits 1.06b**