

**CONFERENCE TO COMMEMORATE THE LEGACY OF RALPH B. PECK,
SEVENTH INTERNATIONAL CONFERENCE ON CASE HISTORIES IN
GEOTECHNICAL ENGINEERING and
SYMPOSIUM IN HONOR OF CLYDE BAKER
WHEELING, IL (CHICAGO, IL AREA) – APRIL 29-MAY 4, 2013
<http://7icchge.mst.edu>**

List of Abstracts

KEYNOTE LECTURE

Keynote	Dynamic Analyses of an Earthfill Dam on Over-Consolidated Silt with Cyclic Strain Softening	W.D. Liam Finn Guoxi Wu	Canada Canada
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STATE OF THE ART AND PRACTICE (SOAP) LECTURES

SOAP-1	The Design of Foundations for the World's Tallest Buildings	Clyde N. Baker, Jr. Tony A. Kiefer	USA USA
SOAP-2	Geotechnical Lessons Learned from Earthquakes	Jonathan D. Bray J. David Frost Ellen M. Rathje	USA USA USA
SOAP-3	Inconclusive Case Histories in Earthquake Geotechnics from Christchurch	George Gazetas	Greece
SOAP-4	Performance Appraisal of Ballasted Rail Track Stabilised by Geosynthetic Reinforcement and Shock Mats	Buddhima Indraratna Sanjay Nimbalkar Cholachat Rujikiatkamjorn	Australia Australia Australia
SOAP-5	Performance of Two Geosynthetics-Lined Landfills in the Northridge Earthquake	Edward Kavazanjian, Jr. Mohamed Arab Neven Matasovic	USA Egypt USA
SOAP-6	Probabilistic Geotechnical Analyses for Offshore Facilities	Suzanne Lacasse Farrokh Nadim	Norway Norway
SOAP-7	The Case Of The New Tagus River Leziria Bridge	Pedro Sêco e Pinto Alexandre Portugal Ricardo Oliveira	Portugal Portugal Portugal
SOAP-8	Tall Building Foundation Design - The 151 Story Incheon Tower	Harry Poulos	Australia
SOAP-9	Foundation Failure Case Histories Reexamined Using Modern Geomechanics	Rodrigo Salgado Andrei Lyamin Jeehee Lim	USA Australia USA
SOAP-10	Long-Term Effects of Earthquake-Induced Slope Failures	Ikuo Towhata	Japan
SOAP-11	Performance Based Engineering - Forty Year Journey (not yet received)	J.P. Singh	USA

**SESSION ON LEGACY OF RALPH B. PECK
(SPEAKERS)**

RBP-1	Professor Ralph B. Peck, Our Beloved Professor and Mentor	Shamsher Prakash	USA
RBP-2	Ralph B. Peck - The One-Page Summary	Nancy Peck Young	USA
RBP-3	Ralph B. Peck, 1912-2008	Gholamreza Mesri	USA
RBP-4	The Practice of Earthquake Geology and the Trans-Alaska Pipeline, A Success Story (not yet received)	Lloyd Cluff	USA
RBP-5	Tunneling in Chicago Clay: Pioneering Work in Ground Control	Edward J. Cording	USA
RBP-6	Field Instrumentation - The Link Between Theory and Practice in Geotechnical Engineering	E. DiBiagio	Norway
RBP-7	Ralph Peck's Circuitous Path to Professor of Foundation Engineering (1930-48)	J. David Rogers	USA

**SYMPOSIUM IN HONOR OF CLYDE N. BAKER
(SPEAKERS)**

CNB-1	Slurry Caisson Problems and Correction in Chicago	Tony A. Kiefer	USA
CNB-2	The Evolution of Deep Foundation Quality Management Techniques in the United States	Bernard H. Hertlein	USA
CNB-3	Pressuremeter Testing in Stiff to Hard Cohesive Soils	Robert Lukas	USA
CNB-4	The 1997 Clark Landfill Failure at Indiana Harbor Works LTV Steel Company, East Chicago, Indiana	William H. Walton Clyde N. Baker, Jr.	USA USA
CNB-5	Tall Buildings and Their Foundations: Three Examples	William F. Baker Christopher Brown James J. Pawlikowski Dane S. Rankin	USA USA USA USA
CNB-6	120 Years of Caisson Foundations in Chicago	Robert E. Schock Eric J. Risberg	USA USA

OTHER SPECIAL PRESENTATIONS

OSP-1	Dynamic Response of Piles — Case Studies in India	Boominathan Adimoolam Krishna Kumar Askar Zhussupbekov	India India Kazakhstan
OSP-2	Barrette Foundations-Two Case Histories from Turkey	H. Turan Durgunoglu	Turkey
OSP-3	Machine Foundation Design: Experimental and Analytical Soil Structure Interaction	M. Hesham El Naggar	Canada
OSP-4	Design of A-Walls for Stabilization of Slopes and Embankments in Soft Soils	Jesús E. Gómez Carlos Englert Helen D. Robinson	USA USA USA
OSP-5	The Design and Construction of a Fast Track 16 Hectare, 18m Deep Basement in Soft Clay in Singapore	J. W. Pappin	China
OSP-6	Shallow Foundations for Seismic Loads: Design Considerations	Vijay K. Puri Shamsher Prakash	USA USA
OSP-7	Forensic Engineering (not yet received)	V.V.S. Rao	India
OSP-8	Sustainability and Waste Management: Case Histories	Hari D. Sharma	USA
OSP-9	Improving the Structural Performance of Heritage Buildings. A Comprehensive Romanian Experience.	Ion Vlad	Romania

SPECIAL PRESENTATION LECTURES

SPL-1	Geotechnical Aspects of Recent Extreme Floods in Pakistan; A Case History	Sarfraz Ali Fawad Akram Abdul Qudoos Khan Misba-Hafsa	South Africa Pakistan South Africa Pakistan
SPL-2	Case History of Foundations in Saudia Arabia (not yet received)	Syed Faiz Ahmad	Saudi Arabia
SPL-3	DEM Modelling of Granular Materials during Cyclic Loading	J.S. Vinod Buddhima Indraratna T. G. Sitharam	Australia Australia India
SPL-4	Observational Method for the Design of a New Ground Improvement Concept Adapted to a Large-Scale Fast-Track Project	Serge Varaksin Frédéric Massé	France USA
SPL-5	Tied-Back Wall Failure, Boston, MA	Theodore von Rosenvinge IV	USA
SPL-6	Phytoforensics: Soil and Groundwater Sampling Without Soil or Groundwater!	Joel G. Burken Kendra M. Waltermire	USA USA

SPL-7	Cowboys Stadium - Roof Arch Foundations - Revisited	Garry H. Gregory	USA
SPL-8	Structural Damage of A 5-Storey Building: Differential Settlement due to Construction of an Adjacent Building or Because of Construction Defects?	Ioannis Anastasopoulos	Greece
SPL-9	Natural Hazard Preparedness and Mitigation in India	T.N. Gupta	India
SPL-10	The Characteristics and Causes of The Devastating Debris Flow in Zhouqu, China (presentation only)	Wang Lanmin	China
SPL-11	Journey in Italian Earthquakes - New Discoveries and Important Lessons Learned from Italian Historic Earthquakes: Innovative Interaction Among Earthquakes, Water Bodies and Geotechnical Aspects (presentation only)	Filippo Ciuffi	Italy

EARTHQUAKE LECTURES

EQ-1	Liquefaction-Induced Damage in the 2010-2011 Christchurch (New Zealand) Earthquakes	Misko Cubrinovski	New Zealand
EQ-2	Geotechnical Problems in the 2011 Tohoku Pacific Earthquakes	Kohji Tokimatsu Hiroko Suzuki Kota Katsumata Shuji Tamura	Japan Japan Japan Japan
EQ-3	A Report on the 2012 Seismic Sequence in Emilia (Northern Italy)	Diego C. F. Lo Presti Mauro Sassu Lucia Luzi Francesca Pacor Doriano Castaldini Giovanni Tosatti Claudia Meisina Davide Zizioli Francesco Zucca Giuliano Rossi Gilberto Saccorotti Davide Piccinini	Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy
EQ-4	Case Histories of Liquefaction in Loose Sand Fills During the 1989 Loma Prieta Earthquake: Comparison with Large Scale and Centrifuge Shaking Tests	Ricardo Dobry Tarek Abdoun Sabanayagam Thevanayagam Hesham El-Ganainy Vicente Mercado	USA USA USA USA USA USA

1.07a	An Investigation of Load and Resistance Factor Design of Drilled Shafts Using Historical Field Test Data	Kam Ng Jessica Garder Sri Sritharan Jeremy Ashlock	USA USA USA USA
1.08a	Application of Case Studies to Practice in Foundation Engineering in India	Mahesh D. Desai Jignesh B. Patel Nehal H. Desai	India India India
1.09a	Challenges of Marine Clay in the Construction (withdrawn)	B. S. Rajpal	India
1.10a	Experiences in Large Slope Stability Problems under Complex Geology	Camilo Marulanda Alberto Marulanda Camilo Phillips	Colombia Colombia Colombia
1.11a	Liquefaction Resistance of Gravelly Soils	Michael R. Lewis Ignacio Arango Kenneth H. Stokoe, II	USA USA USA
1.12a	Performance Monitoring of a Bridge Abutment Spread Footing Foundation from Construction through Service	Derrick Dasenbrock Aaron Budge Bryan Field Daniel Mattison	USA USA USA USA
1.13a	Behaviour of a Large Anchored Basement in Dense Sands and Gravels	Francesco Petrella Roberto Persio Silvia Ferrero Tim Hocombe	Italy Italy Australia UK
1.14a	Calibration of Numerical Model for Liquefaction-Induced Effects on Levees and Embankments	Michelle Shriro Jonathan D. Bray	USA USA
1.15a	Composite Shallow & Deep Foundation in Karst Geology for the Countryside Christian Center New Sanctuary, Clearwater, Florida	Said Iravani	USA
1.16a	Insurance Industry Perspective on the Importance on the Geotechnical Earthquake Engineering for Commercial Structures	James Saldaña	USA
1.17a	A US - India Example in Case History Use in Levee Safety - A Multi-Cultural Perception of What it is, and How Should it be Applied	Padmakar Srivastava Alan Tamm Eric Halpin Winston Yu	USA USA USA USA
1.18a	Geotechnical Investigation at Barrage for Foundation Design at Nyamjang Chhu Hydro Power Project, Tawang, Arunachal Pradaesh, India - A Case Study	Ram Bachan Shivali Rakesh Mahajan	India India
1.19a	Maximizing Data Acquisition, Minimizing Footprint: A Southern California Case Study (withdrawn)	Mayo Thompson Jacob Sheehan Dave Decker	USA USA USA

1.21a	Numerical Modeling and Use of Settlement Reducing Auger Cast-in-Place Piles Below a Mat Foundation	Swaminathan Srinivasan Aaron J. Muck	USA USA
1.22a	Planning and Implementation of Mega Geotechnical Engineering Projects in Singapore	Myint Win Bo A. Arulrajah	Canada Australia
1.23a	Recorded Bedrock Motions and Site Effects Evaluation in Tehran City	Reza Behrou Ali Komak Panah Mohammad Reza Ghayamghamian	USA Iran Iran
1.24a	Site Effects Estimation in Tehran City by Using Empirical Methods	Reza Behrou Mohammad Reza Ghayamghamian	USA Iran
1.25a	Testing of Cyclone Sand Fill at Elevated Stress (withdrawn)	Myles Lawler Matthias Busslinger Howard Plewes Graham Parkinson	UK Canada Canada Canada
1.26a	Site Response Analysis in the STM-M6 Industrial Area of the City of Catania (Italy)	Antonio Cavallaro Antonio Ferraro Salvatore Grasso Michele Maugeri	Italy Italy Italy Italy
1.27a	Effect of Neighboring Footings on Single Footing Settlement	Marawan Shahein Ali Hefdhallah	Egypt Egypt
1.28a	Geotechnical Challenges in Highway Engineering in Twenty First Century: Lessons from Past Experiences and New Technologies	Abdul Aziz Khandker Jeffrey T. Anagnostou Purushottam Deo	USA USA USA

SESSION 1b

Application of Case Histories in Education

How Case Histories have been incorporated in coursework; How to Conduct Search for Case Histories, and What are the Major Sources; Examples of Specific Use/s; Importance of Teaching Case Histories; From Case Histories to Conceptual Models; Importance of Practical Experience of Professors; Use of Case Histories in Teaching Process; Is it possible to Involve Students in Case Histories (i.e. in Engineering Practice)?

1.01b	Role of Case Histories in Geotechnical Engineering Teaching and Practice	R. Shivashankar	India
1.02b	On Becoming a 21st Century Engineering Educator: Building Competencies and Acquiring Needed Skills	Waddah Akili	USA
1.03b	Enhancement of Engineering Education in the Arab Gulf States through Cooperative Learning Protocols	Waddah Akili	USA
1.04b	An Example of Teaching Slope Stability From True Case Histories	Diego Lo Presti	Italy

1.05b	Case Histories in Geotechnical Engineering Education	James Mahar	USA
1.06b	Case Studies - Pavement of the Educator's Road	Richard Ray Peter Scharle Robert Szepesházi	Hungary Hungary Hungary
1.07b	Geosynthetic Reinforced Segmental Retaining Wall Failure: Forensic Investigation and Remediation	Rajaram Janardhanam Miguel A. Pando	USA USA
1.08b	Incorporating On-Campus Sites Into an Undergraduate Geotechnical Engineering Laboratory Course (withdrawn)	Edward L. Hajduk William R. Christopher	USA USA
1.09b	Students as Forensic Engineers: An Innovative Approach to Teaching Soil Mechanics	Benoît Courcelles Lina Forest Anastassis Kozanitis	Canada Canada Canada
1.10b	Using Local Case Histories in Undergraduate Teaching	Andrew T. Rose	USA
1.11b	Using the 1911 Austin Dam Failure Case History in Undergraduate Teaching	Andrew T. Rose	USA
1.12b	The Initiative of the Hellenic Society for Soil Mechanics and Geotechnical Engineering to Support the Development of Case Studies Suitable for Instruction & A Slope Stability Example	George Belokas George Dounias Marina Pantazidou Christos Tsatsanifos	Greece Greece Greece Greece
1.14b	"Extreme Foundations" for Peat Deposit: Conceptual Model, Creative Thinking and Learning Process	Chee-Ming Chan	Malaysia
1.15b	Case Studies used in Instruction to Achieve Specific Learning Outcomes: The Case of the Embankments Constructed for the Approach to Limerick Tunnel, Ireland	Trevor L. L. Orr Marina Pantazidou	Ireland Greece

SESSION 1c

Observational Method, Successes and Failures:

Case Histories of the Successful Application of the Observational Method and Observational Control; Critically Reviewed Old Case Histories (post mortem) and Successful Case Histories; Architecture of Reporting Case Histories, and The Question of Ethics in Reporting of Case Histories; History of Geotechnical Engineering; Ancient Geotechnical Engineering

1.01c	A Non-Linear Method to Estimate Elastic Settlement of Shallow Foundations Using Small-Strain Stiffness	Reza Amini Ahidashti Abdolhosain Hadad	Iran Iran
1.02c	Performance of Digboi Refinery Modernization Project from Geotechnical Aspects – Investigation and Observations	Gokul K. Bayan	India
1.03c	Application of Observational Method in the Successful Construction of Underground Structures, Sardar Sarovar (Narmada) Project, Gujarat, India	Indra Prakash	India

1.04c	Braced Sheet Pile Shoring Wall in Sensitive Clay	Yadav Pathak Marc Sabourin Brian Hall Jake Brucker	Canada Canada Canada Canada
1.05c	Case Study: Application of the Observational Method Using High Strain Dynamic Tests	Adolfo C. Caicedo-Aspiazu Nelson Caicedo	USA Ecuador
1.08c	Importance of Observational Method in View of Numerical Analyses for Retaining Structures in Soft Soils	Patrick Becker	Germany
1.10c	Networked Geotechnical near Real-Time Monitoring for Large Urban Excavation using Multiple Wireless Sensors	Stephen M. McLandrich Youssef M. A. Hashash Nick J. O’Riordan	USA USA USA
1.12c	A Comparison of Three and Two Dimensional Analyses of Rockfill Dams in Narrow Valleys (A Case Study: The Vanyar Dam)	Mehdi Derakhshandi Mojtaba Honarmand Amir Hossein Sadeghpour	Iran Iran Iran
1.13c	The Observational Method and Seepage Design: Past, Present, and Future (withdrawn)	Bryant Robbins Johannes Wibowo Don Yule	USA USA USA
1.14c	Use of the Observational Method to Verify Design of Earth Retention Structures	Timothy H. Bedenis Christopher G. Nadia	USA USA
1.15c	Case History - Performance Monitoring Success	Charles B. Grant Tom Hurley	USA USA
1.17c	Design of Shallow Foundations for a Large Polysilicon Plant in China	Kul Bhushan Ken Choudhary	USA China
1.18c	Evaluation of the Observed Performance of a Deep Top Down Excavation (withdrawn)	Derya Celal Zinzade Gokhan Baykal	Turkey Turkey
1.19c	Supporting Tunnelling Excavation of an Unstable Slope by Long Term Displacement Monitoring	Francesca Bozzano Paolo Mazzanti Alberto Prestininizi	Italy Italy Italy
1.20c	Determination of In-Situ Stress at Desilting Chamber of Punatsangchhu Hydroelectric Project (Bhutan), to Reconfirm its Orientation Influenced by Topography - A Case Study	D.S. Subrahmanyam S. Sengupta R.K. Sinha G. Shyam	India India India India

SESSION 2

Case Histories of Unexpected Behavior and Failure of Shallow, Deep and Other Foundations, Including Soil Structure Interaction, Foundations in Expansive, Collapsible and Sulphative Rich Soils, Foundations in Arid, Semi-Arid Zones; Case Histories Involving Rapid Load Testing (Statnamic, Fundex, Drop Weight) for Deep Foundations, Pile Driving and Evaluation, Failure and Good Performance of Buildings, Foundations, Tall Buildings and Towers, and Historical Monuments

2.01	Full-Scale Load Testing of 57-Year Old Raymond Piles for Foundation Re-Use	Vishnu Diyaljee	Canada
2.02	Global Bearing Capacity Failure of a Granite Block Bridge Abutment on a Shallow Foundation (withdrawn)	Alan Lutenegger	USA
2.03	Historical Application of Screw-Piles and Screw-Cylinder Foundations for 19th Century Ocean Piers	Alan Lutenegger	USA
2.04	The Effect of Quality of Subsoil Structure Identification on the Execution of Pile Structures for Bridge Supports	Maciej Kumor Zbigniew Mlynarek	Poland Poland
2.05	Seismic Hazard and Geophysical Investigations for Architectural Heritage Preservation in Egypt: The Case of Habib Sakakini Palace	Sayed Hemeda Mohamed Gamal Kyriasis Pitilakis	Egypt Egypt Greece
2.06	Evaluation of Treatment Methods Used for Construction On Expansive Soils in Egypt	Ahmed T. M. Farid Ihab A. Hamid	Egypt KSA
2.07	Use of Liquid Limit and Dry Density Test Method for Collapsible Soil Identification	Mehdi Khalili Noutash Masoud Hajjalilue Bonab Mehrad Khalili Noutash	Iran Iran Iran
2.08	High Capacity Rock Socketed Piles in Scotland, UK	Peter Boyd Baran Ozsoy	UK Turkey
2.09	Pore Pressure Measurements within the Cooper Marl Formation during Driven Pile Installation (withdrawn)	Kenneth J. Zur Edward L. Hajduk	USA USA
2.10	Differential Settlement Problem of a Large Apartment Building in Bogotá, Cause and Solution	Marcela Salcedo Q. Luis Fernando Orozco R.	Colombia Colombia
2.11	Design and Performance of Shallow Foundations over Diagenetic Limestone along the Arab Gulf Coast: Realities and Challenges	Waddah Akili	USA
2.12	Analysis of Piled-Raft Foundation for Cai Mep Container Port, Vietnam	Nguyen Minh Hai Bengt H. Fellenius	Vietnam Canada
2.13	Soil-Structure Interaction between a Deep Excavation and Adjacent Heritage Buildings Supported on Floating Foundations (withdrawn)	Dominic Ek-Leong Ong	Malaysia

2.15	Analysis of Piled Raft Interaction in Sand with Centrifuge Tests	Donggye Park Doohyun Kyung Kyujin Choi Junhwan Lee	Korea Korea Korea Korea
2.16	Base Grouting Case Studies Including Full Scale Comparative Load Testing	Jon Sinnreich Robert C. Simpson	USA USA
2.17	Case History: Performance of Drilled Shaft Foundation System in Cemented Soils, Las Vegas, Nevada (withdrawn)	Brandon Kluzniak	USA
2.18	Case Study of the Soil-Structure Interaction Response of Embedded Structures with Varying Backfill Soil Properties	Lisa M. Anderson Luis M. Moreschi	USA USA
2.20	Challenging Chicago Caisson Installation and Remedial / Supplemental Geotechnical Construction Techniques (withdrawn)	Raymond Franz William L. Lederer	USA USA
2.21	An Experimental Study of the Drained Capacity of Bucket Foundations for Offshore Applications	Lars Bo Ibsen Amin Barari Kim André Larsen	Denmark Denmark Denmark
2.23	Comparison between Dynamic Responses of Hollow and Solid Piles for Offshore Wind Turbine Foundations	M. Bayat L. V. Andersen L. B. Ibsen	Denmark Denmark Denmark
2.24	Contribution of the Side Resistance and Tip Resistance on the Total Axial Load Capacity of Drilled Shaft Foundations (withdrawn)	Masood Hajali Caesar Abishdid Mohammad M. Mollanouri	USA USA USA
2.26	Differential Settlements of Cylindrical Steel Storage Tanks: Case of the Marine Terminal of Bejaia	Bahar Ramdane Sadaoui Omar Amzal Djahid	Algeria Algeria Algeria
2.27	Effect of Soil on Seismic Response of a Tall Tower (withdrawn)	Shrabony Adhikary Yogendra Singh	India India
2.28	Effect of Structure on the Dynamic Response of Piled Raft Foundation (withdrawn)	A. Saeedi M. H. Baziar	Iran Iran
2.30	Geotechnical Issues Associated with the Design and Construction of the Middle River Bridge	Vishnu Diyaljee	Canada
2.31	Repair of Sunken Floor by Integrated Approach: A Case Study	P. K. Jain Rakesh Kumar	India India
2.32	Bridge Foundation Piles in Varved Glaciolacustrine Deposits Exhibiting Very High Soil Setup	Gregory R. Reuter	USA

2.34	Geotechnical Site Assessment by Seismic Piezocone Test in North of Denmark	Sarah Firouzianbandpey Benjamin Nordahl Nielsen Lars Vabbersgaard Andersen Lars Bo Ibsen	Denmark Denmark Denmark Denmark
2.36	Ground Improvement by Micropiles for the Cosmopolitan (withdrawn)	Walter E. Vanderpool Michael E. McGettigan	USA USA
2.37	Ground Treatment to Shallow Foundations Evolved by Performance Studies to Control Unexpected Settlement at Surat (withdrawn)	Mahesh D. Desai Ravin M. Tailor Bhagat Dharam	India India India
2.38	Innovative Durable Foundation Structures - Case Studies (withdrawn)	B. Sivarama Sarma S. Manohar	India India
2.39	Interaction Analysis of Tall Structures with Pile Foundation (withdrawn)	Imteaz F. Bhuiyan Abdul Muqtadir	Canada Bangladesh
2.40	Micropiled-Raft Foundations for High-Rise Buildings on Soft Soils – A Case Study: Kerman, Iran	Hessam Yazdani Mehdi Momeni Kianoosh Hatami	USA Iran USA
2.41	Modeling Challenges of a Rapid Lateral Impact Load Testing Case History of a Single Piles (withdrawn)	Miguel A. Pando C. D. Rice D. C. Weggel	USA USA USA
2.42	Performance of Driven Piles in Gravelly Sands with Cobbles	William S. Man Yonah R. Halpern	USA USA
2.43	Punch-Through Foundation Failure of Oil Drilling Platform in the Deltaic Plain of the Niger River	E. A. J. George T. J. Atuboyedia M. Oju T. E. George	Nigeria Nigeria Nigeria Nigeria
2.44	Response of Piled Raft Foundation on Soft Clay under Seismic Load	Alireza Saeedi Azizkandi Tara Maali Mohammad Hassan Baziar	Iran Iran Iran
2.45	The Fossa Carolina - Historical Canal Monument (withdrawn)	Hermann Zeilinger	Luxemburg
2.47	Underpinning Using Micropiles for Fragile Building Adjacent to Deep Excavation in Manhattan, New York	Chu Ho Adrian Pena-Iguaran	USA USA
2.49	Axial Load Behavior of a Driven Cast-in-Situ Pile in Sand	Kevin N. Flynn Bryan A. McCabe Derek Egan	Ireland Ireland UK

2.50	Rotary Driven Pipe Piles for a 14-Story Building in New York City	Howard A. Perko Michael Paquette Marc Gallagher Andrew Burns	USA USA USA USA
2.51	Dynamic Response of a Vertical and Battered Pile	R. M. Subramanian A. Boominathan	India India
2.53	Ground Heave due to Jet Grouting near an Existing Structure	Frederico Pinto Gary M. O'Neil Amy D. Apfelbaum Andrew J. Whittle	Argentina USA USA USA
2.55	Soil Reinforcement by Rigid Inclusions: Contamination of an Oil Storage Tank	Mounir Bouassida Wafy Bouassida	Tunisia Tunisia
2.56	Pile Driving Adjacent to Municipal Drinking Water Storage Facility	R. Eric Zimmerman Gregory R. Reuter Chad A. Underwood	USA USA USA
2.58	Seismic Retrofit of 92/280 I/C Foundations by Micropile Groups in San Francisco Bay Area, California	Mahmood Momenzadeh Tung Nguyen Phil Lutz Tim Pokrywka Chris Risen	USA USA USA USA USA
2.59	Soil Movements due to Displacement Pile Driving	M. K. Chong	UK
2.60	Thermo-Mechanical Load Testing and Load Transfer Mechanisms of Energy Piles (withdrawn)	C. Guney Olgun James R. Martin Sherif L. Abdelaziz Pier Luigi Iovino Fatih Catalbas	USA USA USA USA USA
2.62	Numerical Analysis of Pile Foundations Embedded in Soft Soil Subjected to Cyclic Lateral Loading (withdrawn)	Subhadeep Banerjee Omprakash N. Shirole	India India
2.65	Differential Settlement of Foundations on Loess	Dušan Milović Mitar Djogo	Serbia Serbia

SESSION 3a

Case Histories on Failures and Remediation of Slopes, Dams, Embankments and Landfills, Including Those on Landslides and Other Mass Movements (Debris Flows, Mudslides in California, Venezuela and Elsewhere) due to Rain, Flooding, Earthquakes, Anthropological and Other Causative Factors and Failure; Static Liquefaction of Tailing Dams; Good Performance of Levees, Solid Waste Landfills and Dams

3.01a	Landslide of Tunnel Face by Slip Circle Formation-Case Study	Kamal Dev Ralh	India
		Ansh Deep Ralh	India
3.02a	Landslide at Railway Project Site in Weak Murree Formation - Case Study	Kamal Dev Ralh	India
		Ansh Deep Ralh	India
3.03a	Case Histories of Earthen Dam Failures	R. P. Sharma	India
		A. Kumar	India
3.04a	Susceptibility Analysis on Landslide Triggering Factors during the 2008 Wenchuan Earthquake	Deping Guo	Japan
		Masanori Hamada	Japan
3.05a	Levee Foundation Remediation using the Deep Mix Method	Wesley Schmutzler	USA
		Filippo Maria Leoni	USA
		Kyle Sansing	USA
3.06a	Evaluation of Critical Precipitation for Early Warning of Landslides Based on Case Histories Recorded in Southern Taiwan (withdrawn)	Gordon Tung-Chin Kung	Taiwan
		Po-Kai Wu	R.O.C. Taiwan
		Yu-Geng Tang	R.O.C. Taiwan
		Pai-Hsiang Tsai	R.O.C. Taiwan
3.07a	Review of The Seismic Retrofitting of Sardis Dam	Randa Asmar	USA
		Abdul Qudoos Khan	Pakistan
3.08a	Failure of Embankment on Soil-Cement Columns for Thi Vai Port, Vietnam	Nguyen Minh Hai	Vietnam
		Bengt H. Fellenius	Canada
3.09a	Stabilization of a Failed Highway Slope: A Multi-Phased Approach	Jeffrey T. Anagnostou	USA
		Anthony S. Nestor	USA
		Purushottam Deo	USA
		Heidi Flateau	USA
3.10a	Lessons from Revisiting three Cases of Slope Failure	Konstantina Papadopoulou	Greece
		George Gazetas	Greece
3.12a	Analysis of Landslides Using Image Correlation Techniques (withdrawn)	Faraz S. Tehrani	USA
		Siddharth Khandelwal	USA
		Monica Prezzi	USA
		Rodrigo Salgado	USA

3.13a	Calculation of Natural Frequency of Earth Dams by Means of Analytical Solution	Maryam Mahdizadeh Ali Ghanbari	Iran Iran
3.14a	Causes and Circumstances of Red Sludge Reservoir Wall Failure in 2010 at Mal ZRT Factory Site in Ajka, Hungary	David Turi Jozsef Pusztai Istvan Nyari	Hungary Hungary Hungary
3.15a	Damage on a Main Gas Pipeline due to Landslide of Soils Derived from Volcanic Ashes in Colombia	Gilberto Rodriguez Ch. Julián Rodriguez V. Natalia Quintero A. Jorge E. Villamarín	Colombia Colombia Colombia Colombia
3.16a	Design Details to Accommodate Fault Movement in a Dam Foundation	Peter A. Dickson Joseph R. Kovacich Georgios Raptis	USA USA USA
3.17a	Development and Implementation of a Methodology for the Determination of Risk Based on the Instrumentation of Calderas, Jaguas, Miel I and San Carlos Hydroelectric (withdrawn)	Juan Pablo Villada Osman Daniel Perafán Rafael Prieto Manuel Villarraga	Colombia Colombia Colombia Colombia
3.18a	Earth Dam Failure by Erosion, A Case History	Scott Newhouse	USA
3.19a	Effect of High-Intensity Rainfall at Bandung Landfill Failure (withdrawn)	Navid H. Jafari Timothy D. Stark	USA USA
3.20a	Embankment Construction Using Column Supported Embankment	Aravinda Ramakrishna Elizabeth Trimpin Raymond Mankbadi	USA USA USA
3.21a	Evaluation of the Failure Probability of Slopes in Residual Soil from the Aburrá Valley, Medellín Colombia	Juan Pablo Villada Rodas Manuel Roberto Villarraga	Colombia Colombia
3.24a	Experimental Study on Mitigation of Liquefaction-Induced Lateral Displacement Using Deep Soil Mixing	Rouzbeh Rasouli Naoki Takahashi Ali Derakhshani Suguru Yamada Yuji Takaoka Ikuo Towhata	Japan Japan Japan Japan Japan Japan
3.25a	Failures and Remediation of Rock Slope Stability Problems and Remediation at Earthquakes at Part of Werka Descent Road West of Saudi Arabia	Bahaaeldin Sadagah	Saudi Arabia
3.26a	Finding F.O.S. for Flow Type Landslide with Static Liquefaction at Karshingsa - A Case Study	Gokul K. Bayan	India
3.27a	Foundation Treatment of Embankment Dams with Combination of Consolidation and Compaction Groutings	Fardin Jafarzadeh Amir Akbari Garakani	Iran Iran

3.28a	The Influence of Freeze-Thaw Cycles on CBR Values of Silty Soils Stabilized with Lime and Microsilica	Reza Ziaie Moayed Younes Daghigh Behzad Pourhadi Lahiji	Iran Iran Iran
3.29a	Backward Erosion Piping Model Verification Using Cases in China and The Netherlands	V. M. van Beek Q. L. Yao M. A. Van	The Netherlands China The Netherlands
3.30a	Geotechnical Characterization of the Flood Plain Embankments of the Serchio River (Tuscany, Italy)	Barbara Cosanti Nunziantè Squeglia Diego C. F. Lo Presti	Italy Italy Italy
3.31a	High-Risk Flood Control Dams on Difficult Soil Foundations	Gary S. Chow Lori K. Thomas Willis Walker	USA USA USA
3.32a	Investigation of the Effect of Modeling of Control Tunnel in Retaining Structure of J2 Station of Mashhad Metro using Plaxis 2D	S. M. Mousavi F. Rouzmehr A. H. Fazli	Iran Iran Iran
3.33a	Stability Analysis of Behesht-Abad Water Conveyance Tunnel Inlet Portal using Experimental, Limit Equilibrium and Numerical Methods	Arash Mohammadi Mahmoud Hashemi Hooman Sharifpour	Iran Iran Iran
3.34a	Landslide Stabilization along the Ohio River Using Cantilevered Stub Piers	Swaminathan Srinivasan Jess A. Schroeder	USA USA
3.36a	Koman Concrete Face Rockfill Dam - Updating the Static and Seismic Stability Evaluations	Hamid Fallah Martin Wieland	USA Switzerland
3.37a	Investigations for the Stability of Slopes along Road Section - Case Studies (withdrawn)	Jai Bhagwan Kanwar Singh	India India
3.38a	M-222 Slope Stabilization Case History - Geotechnical Lessons Learned from Michigan Department of Transportation Design Build Project	Michael J. Thelen Daniel A. Thome	USA USA
3.39a	Mississippi River Road Gabion Wall/Slope Stabilization	W. Ken Beck Lok M. Sharma	USA USA
3.40a	Observations Save the Day at the Wachovia Cultural Center Excavation	D. Bruce Nothdurft E. J. Cording J. Sid Davis	USA USA USA
3.41a	Reconstruction of Road Embankment Failure Using Reinforced Geogrid: Revisiting the Site after 15 Years	Suhaimi Jamaludin Kamal Bahrin Jaafar	Malaysia Malaysia
3.42a	Remediation of a Slope Failure above Retaining Wall under Construction	Miroslav Cerny Lubos Hrustinec	Slovakia Slovakia

3.43a	Sand Levees for Flood Risk Reduction (withdrawn)	Thomas E. Mack Charles E. Bishop, Jr.	USA USA
3.44a	Analysis and Design of Breakwater for Sea Water Intake Facility on South East Coast of India	Jaykumar Shukla Laxman Rajwani Dhananjay Shah	India India India
3.45a	Analysis of the Embankment Dam Failure at Prudencia HPP (withdrawn)	Sophie Messerklinger	Switzerland
3.47a	Technical Analyses and Lessons of the Embankment Failure at the Ajka Red Mud Reservoir	József Mecsi	Hungary
3.48a	Case Study of Landslides in Kabylia Region, Algeria	Sadaoui Omar Sadaoui Samir Bahar Ramdane	Algeria Algeria Algeria
3.49a	Field Testing of Crushed Ignimbrite for Seismic Retrofit of Matahina Dam	Lelio H. Mejia	USA
3.50a	Geotechnical Aspect for Protection Bunds	Janvi Talsaniya Vaishali Pandya Jigar Rana	India India India
3.51a	Highway Section Affected by Two Neighboring Landslides - Performance, Monitoring and Design of Stabilization Measures	Vassilis Houssiadas Eleni Sakoumpenta Manolis Haralambakis	Greece Greece Greece
3.52a	Effect of the Soil Spatial Variability on the Static and Dynamic Stability Analysis of a Lebanese Slope	Mansour Neaimeh Rony Azar Roni Hmaymes Georges Nasr Dalia Youssef Abdel Massih Jacques Harb Nancy Salloum Cécile Cornou Denis Jongmans	Lebanon Lebanon Lebanon Lebanon Lebanon Lebanon Lebanon Lebanon France France
3.53a	Intense Rainfall and Human Interventions: The Case Study of the Chittagong Landslide in Southeastern Bangladesh (withdrawn)	Imteaz F. Bhuiyan Debasish Roy Raja	Canada Bangladesh
3.56a	Over Eight Decades Old "Young" Landslide - A Case Study	Kishor Kumar P. S. Prasad Anil Kathait Indervir Singh	India India India India

3.57a	Rainfall-Induced Debris Flows Case History along Al-Hada Descent Highway West of Saudi Arabia	Bahaaeldin Sadagah	Saudi Arabia
		Abdulrahman Al-Amri	Saudi Arabia
		Mohammed S. Aazam	Saudi Arabia
		Omar Al-Hoseiny	Saudi Arabia
3.58a	Stabilisation of Deep Soil Cut Using Micropile and Soil Nailing	Vaishampayan V. V. Bhosle S. P.	India India
3.61a	Self Hardening Slurry Wall Installation by Hydromill at the Herbert Hoover Dike - An Innovative Solution	Mario Mauro	USA
		Carlos Morales	USA
		Jeff Taylor	USA
3.62a	Stability Analysis of the Serchio River Flood Plain Embankments (Tuscany, Italy)	Nunziante Squeglia	Italy
		Barbara Cosanti	Italy
		Diego C. F. Lo Presti	Italy
3.63a	Stabilizing a Landslide on a Motorway under Traffic: A Case History on Egnatia Motorway in Greece	Eleni Sakoumpenta	Greece
		Vassilis Houssiadas	Greece
		Manolis Haralambakis	Greece
3.64a	Slope Stability Assessment in Bursa, Turkey (withdrawn)	Damla Gaye Oral	Turkey
		Haluk Akgün	Turkey
		Mustafa Kerem Koçkar	Turkey
3.65a	Seismic Retrofit of Crane Valley Dam	David Ritzman	USA
		Faiz Makdisi	USA
		Joseph de Larios	USA
		Joseph Sun	USA
		Charles Ahlgren	USA
3.66a	Selection of Most Appropriate Procedures for Seismic Evaluation of Levees Based on Case Histories	Vlad Perlea	USA
		Khaled Chowdhury	USA
		Mary Perlea	USA
		George Hu	USA
3.67a	Three Dimensional Soil-Structure-Interaction Analysis of a Flood Wall Under Full-Scale Load Test	Jian Hu	USA
		Faiz Makdisi	USA
		Zhi-Liang Wang	USA
		Kent Hokens	USA
		Neil Schwanz	USA
3.68a	Ground Motion Amplification from Vertical Propagation of Earthquake Waves	Nien-Yin Chang	USA
		Roger L. Torres	USA

3.69a	Influenced Factor of Site Information on the Environmental Ground	Katsuya Tanaka Kiyoshi Hayakawa Shuuji Honda	Japan Japan Japan
3.70a	Lateral Movements of a Bridge Abutment due to Compressible Foundation Soils	Alper Turan Tony Sangiuliano M. Shahria Alam M. Hesham El Naggar	Canada Canada Canada Canada
3.75a	The Consolidation Behavior of the Clay-Core in a Rock Fill Dam - Atatürk Dam Case Study	Atila Sezen Atilla Ansal	Turkey Turkey
3.76a	Influence of Dam and Foundation Discontinuities Using Discountinuum Approach - A Case Study	Shilpa Pal Dilip K. Paul	India India

SESSION 3b

Case Histories on Failure and Remediation of Retaining Structures, Slurry Walls, and Deep Excavations, Dewatering, Stability

3.01b	Case Histories of Failure of Deep Excavation Examination of Where Things Went Wrong: Nicoll Highway Collapse, Singapore	John Endicott	China
3.02b	Underpinning a Residential Structure on Uncontrolled Fill with Helical Screw-Piles	Alan J. Lutenege	USA
3.03b	Numerical Investigation of the Mobilization of Active Earth Pressure on Retaining Walls (withdrawn)	Abouzar Sadrekarimi Sepideh Damavandinejad Monfared	Canada Canada Canada
3.04b	Numerical Analysis of Soil Deformations Around Deep Excavations	Oktay Sevcen Kutay Ozaydin Havvanur Kilic	Turkey Turkey Turkey
3.05b	Behavior Prediction and Monitoring of a Deep Excavation in the Historic Center of Brescia	Alex Sanzeni Francesco Colleselli Maira Mino Alberto Merlini	Italy Italy Italy Italy
3.06b	Investigating the Performance of Ground Anchor through the Failure Slope Disaster in Taiwan	Ching-Jiang Jeng Yen-Cheng Chen	Taiwan Taiwan
3.07b	The Simplified KZP6 Method for Tieback Wall Design in Granular and Cohesive Soils	Kumars Zand-Parsa Kamran Zand-Parsa	USA Iran
3.08b	A Case History of Deep Excavation in Doha	L. Tony Chen	China
3.09b	A Case History of a Deep Foundation Pit Constructed by Zoned Excavation Method in Shanghai Soft Deposit	Z. H. Xu J. Zhang C. Chen	China China China

3.11b	Application of Jacket Pack Anchor (JP Anchor)	Kim Tae-Seob Cho Yoon-Ju	Korea Korea
3.12b	A Simplified Procedure for Performance-Based Design of Excavation Based on Damage Potential of Adjacent Buildings (withdrawn)	Yu-Geng Tang Gordon Tung-Chin Kung	Taiwan Taiwan
3.13b	Behavior of a Soil Nailed Deep Excavation on East of Tehran (withdrawn)	S. Mohsen Haeri Mohammadhasan Sasar Reza Keyhani	Iran Iran Iran
3.14b	Deep Excavation Project and Case Study for Adana Hotel (withdrawn)	Selcuk Bildik Mustafa Laman Muhannad T. Suleiman Ahmet Arslan Ozkan Kalo	Turkey Turkey USA Turkey Turkey
3.15b	Double Case of Passive Pressure Acting on Wall Rotated about the Top	Petr Koudelka	Czech Republic
3.16b	Exploration, Deconstruction, and Repair of a Distressed MSE Retaining Wall in Saint Paul, Minnesota	Joseph G. Bentler	USA
3.17b	Failure Investigation and Restoration of Two Cellular Sheetpile Structures	Frank M. Clemente, Jr.	USA
3.18b	Failures of Retaining Wall Structures due to Earthquake	Mohammadreza Abbasi Garavand Hamzehlou Bahareh	Iran Iran Iran
3.19b	Accumulation of Rainfall in the Permeable Fill behind a Soil Nail Wall	S. Mohsen Haeri Mohammadhasan Sasar Kioumars Afshari	Iran Iran USA
3.20b	Lessons Learned from the Disaster at Lippe Canal Bridge	Markus Herten Eva Dornecker	Germany Germany
3.21b	Mitigation of Seismic Deformation of Anchored Quay Wall by Compacting	Pooyan Ghasemi Abbas Ghalandarzadeh Ashraf Zekri Mohammad H. Aminfar	Iran Iran Iran Iran
3.22b	Stabilization of Existing Sheet Pile Cell in the Ohio River	David W. Bird	USA
3.24b	Observed Performance of Three Excavations Supported by Soil Berms (withdrawn)	Fabio M. Soccodato Efisio Erbi Andrea Morittu Roberto Piras	Italy Italy Italy Italy

3.25b	Reconstruction of a Deteriorating, Tiered, MSE Wall Structure in Connecticut	Matthew E. Meyer Christian B. Woods Neritan Axhushi	USA USA USA
3.26b	Prevention of Additional Building Settlement due to Adjacent Construction at St. Francis Hospital and Medical Center in Hartford, CT	Giuliana Zelada-Tumialan Sean D. Radley William P. Konicki Drew Floyd	USA USA USA USA
3.27b	Deep Excavation on 3 Sides of a 21 Story Building: Accounts of a Successful Deep Excavation Project	S. Mohsen Haeri Mohammadhasan Sasar Kioumars Afshari	Iran Iran USA
3.28b	3D FEM Modeling of a Deep Excavation Case History Considering Small-Strain Stiffness of Soil and Thermal Shrinkage of Concrete	Yuepeng Dong Harvey Burd Guy Houlsby Zhonghua Xu	UK UK UK P.R. China
3.29b	Application of Soil Nailing for Stability of an Excavation in Layered Ground: A Case Study from Iran (withdrawn)	H. Elahi M. Sabermahani M. Keramati M. A. Tutunchian	Iran Iran Iran Iran
3.30b	Bloomfield Road Stormwater Storage Tanks Grouting Works, Blackpool, UK	Mark Edmondson Pamela Rigby David Jones Elizabeth Gallagher Malcolm Eddleston David Preece	UK UK UK UK UK UK
3.32b	Case Study on the Rehabilitation of a Distressed Retaining Wall	G. L. Sivakumar Babu Pawan Kumar Raja Jaladurgam	India India India
3.34b	Remediation of Distressed Frozen Earth Cofferdams	Joseph A. Sopko Robert Chamberland	USA Canada
3.35b	Some Remarks on the Influence of Deep Excavations on Neighbouring Buildings	Cătălin Căpraru Anton Chirică	Romania Romania
3.36b	A Case Study on the Use of Flexible Earth Retaining Structure in Instable Slopes	H. Turan Durgunoglu Ahmet Sahin Onder Akcakal	Turkey Turkey Turkey
3.37b	Embankment Slope Stability Analysis of Dwight Mission Mine Site Reclamation Project	Christopher D. Kiser Prabir K. Kolay	USA USA

SESSION 3c

Improving the Stability and Maintenance of Monuments (Big Ben, Leaning Tower of Pisa and Others)

3.01c	Parametric Study of Behavior of Inclined Micropile Using Numerical Modeling (withdrawn)	Sepideh Damavandinejad Monfared	Iran
3.02c	Restoration of the Military Club Building in Sofia, by Micro Pile Injections	Chavdar Vassilev Kolev	Bulgaria
3.03c	Case Studies of Dewatering and Foundation Design: Retail Warehouses in Taiwan	Barry S. Chen Roy E. Jensen	USA USA
3.04c	Geotechnical Issues in Structural Stabilization of Historical Monument - Clock Tower	Vlatko Sesov Julijana Cvetanovska Kemal Edip	Macedonia Macedonia Macedonia
3.05c	Constructive Solutions to the Conservation of Cultural Heritage	Miroslav Todorov	Bulgaria

SESSION 4a

Case Histories on Failure and Remediation of Geotechnical Earthquake Engineering, Including Land Slides; Lessons Learned from Pisco-Peru 2007, L'Aquila-Italy 2009, Honduras 2009, American Samoa 2009, Haiti 2010, Chile 2010, Baja, California 2010, New Zealand 2010 and 2011, Tohoku Japan 2011 and other Recent Earthquakes; Reports on Recent Earthquakes

4.01a	Liquefaction Potential Evaluation – Energy-Based Method Compared to Stress-Based Method	Takaji Kokusho	Japan
4.02a	Activation of Landslides in The South of Ukraine under the Action of Natural Seismic Impacts (Experimental and Analytical Studies) (withdrawn)	Oleksandr N. Trofimchuk Iurii I. Kaliukh	Ukraine Ukraine
4.03a	L'Aquila Seismic Event on 6th April 2009: Site Effects and Critical Points in Microzonation Activity within the Aterno Valley Municipalities	Mario Luigi Rainone Patrizio Signanini Giovanna Vessia Pasquale Greco Sara Di Benedetto	Italy Italy Italy Italy Italy
4.04a	Banda Aceh-Indonesia Ground Response Analysis During the 2004 Indian Ocean Mega Earthquake	Bambang Setiawan Wahyu Budi Kusuma	Indonesia Indonesia
4.05a	A 2-Dimensional Approach for Numerical Modeling of Seismic Gravel Drains in Liquefiable Grounds	Mahmood Seid-Karbasi Roberto Olivera Upul Atukorala	Canada Canada Canada
4.06a	Bank Instability Problems Associated with the Riverside Construction	Gennaro G. Marino Abdolreza Osouli	USA USA
4.08a	Effects of Silt Content on Dynamic Properties of Solani Sand	Bablu Kirar B. K. Maheshwari	India India

4.09a	Estimation of Site Effects in the Iranian Plateau Using the Quarter-Wavelength Method	Mohammad Ebrahim Fakhimnia	Iran
		Hamid Zafarani	Iran
		Shima Shams Rad	Iran
4.10a	Fault - Tunnel Interaction Modelling, Using Numerical Studies and Verification with Experimental Tests (withdrawn)	M. H. Baziar	Iran
		A. Nabizadeh	Iran
4.11a	Ground Deformations Observed After 23.10.2011 Mw 7.2 Van Earthquake	Mutluhan Akin	Turkey
		Ali Ozvan	Turkey
		Muge K. Akin	Turkey
		Tamer Topal	Turkey
4.14a	Ground Improvement for the Smithland Hydroelectric Project	Thomas Andrews	USA
		Lin Zhao	USA
		Luling Yang	USA
		Abid Mirza	USA
4.17a	Estimating Seismic Settlements from Liquefaction and Cyclic Softening and Their Impact to Design of a School Building	James Wetenkamp	USA
		Jorge Meneses	USA
		Zia Zafir	USA
4.19a	Lessons from the Seismic Performance of Pile-Supported Bridges Affected by Liquefaction during the M8.8 2010 Maule Chile Earthquake	Christian Ledezma	Chile
4.20a	Performance of Lightweight Structures during Liquefaction from Recent Earthquakes	Jorge F. Meneses	USA
		Yun Liao	USA
4.21a	Performance of Underground Structures in Liquefiable Soil (withdrawn)	S. C. Chian	Japan
		K. Tokimatsu	Japan
4.23a	Seismic Hazard Assessment and Design Ground Motion: Lessons Learned from Recent Earthquakes	Zhenming Wang	USA
4.24a	Seismic Performance of Waterfront Sites during the M9 Tohoku, Japan Earthquake (withdrawn)	James R. Martin, II	USA
		Steve Dickenson	USA
		Kenji Ishihara	Japan
		Guney Olgun	USA
		Takahiro Sugano	Japan
4.26a	Soil Liquefaction Potential Evaluation in Lebanese Soil Deposits (withdrawn)	Muhsin Elie Rahhal	Lebanon
4.28a	Spectral Attenuation Characteristics of Strong Ground Motions in East-Central Iran using Theoretical Data	Majid Mahood	Iran
		Hossein Hamzehloo	Iran
4.29a	Variation of Intrinsic and Scattering Attenuation of Seismic Waves with Depth in the Bam Region, East-Central Iran	Majid Mahood	Iran

4.30a	Evaluation of Site Amplification of Erbaa, Tokat (Turkey)	Muge K. Akin	Turkey
		Steven L. Kramer	USA
		Tamer Topal	Turkey
4.31a	3D Numerical Simulation of Liquefaction Induced Effects during Italian Earthquake (May 20, 2012) (withdrawn)	Forcellini Davide	Italy
		Fabio della Bartola	Italy
		Angelo Marcello Tarantino	Italy

SESSION 4b

Case Histories on Engineering Vibrations, Vibration Control for Underground and Surface Constructions with Specific Emphasis on the Urban Environment; Predictions, Monitoring and Solutions; Blasting for Tunnels in Soft Ground and Rock, Discontinuous Rocks and their Application to Water Resources Projects, and Remediation

4.01b	Study of Seismic Wave Propagation in Anisotropic Magnetoelastic Structure with a Point Source	Amares Chattopadhyay	India
		Sanjeev A. Sahu	India
4.03b	Bridge Foundation Pile Driving Vibration Monitoring	Kumars Zand-Parsa	USA
		Kamran Zand-Parsa	Iran
4.04b	Scaled Capacity: A New Approach in Estimating Driven Pile Ground Vibrations (withdrawn)	Edward L. Hajduk	USA
		Joshua C. Adams	USA
4.05b	Case Histories of Alleged Vibration Damage to Sensitive Structures from Construction Activities (withdrawn)	Dhirendra S. Saxena	USA
4.06b	Determination of MSE Wall Pseudo Static Coefficient Based on Seismic Performance	Ali Komak Panah	Iran
		Majid Yazdandoust	Iran
		Reza Sadeghzadegan	Iran
4.07b	Monitoring of Driven Pile Vibrations for the University of Wisconsin - Milwaukee School of Freshwater Sciences Building Addition (withdrawn)	Van E. Komurka	USA
		Edward L. Hajduk	USA
4.09b	Tunnelling in Urban Area and Monitoring during the Construction (withdrawn)	Francesco Castelli	Italy
		Valentina Lentini	Italy
		Michele Maugeri	Italy
4.10b	Experimental Investigation into Natural Base Isolation System for Earthquake Protection	Srijit Bandyopadhyay	India
		Aniruddha Sengupta	India
		G.R. Reddy	India
4.12b	An Investigation on the Stack Vibrations and Geotechnical Rehabilitation Solutions Case-Study: Khangiran Gas Refinery	Hadi Ghodrat	Iran
		Abolfazl Yazdinejad	Iran
		Javad Hosseini Masum	Iran
		Mehdi Barjini Khabbaz	Iran
		Arsalan Ghahramani	Iran
4.13b	Study of the Risk of Liquefaction of Ziatine Dam Foundation in Tunisia (withdrawn)	Hamdi Hichem	Tunisia
		Med Ridha El Ouni	Tunisia

4.14b	Evaluation of Liquefaction Potential of an Earth Dam Foundation Using in Situ Tests	Guettaya Ikram El Ouni Mohamed Ridha	Tunisia Tunisia
4.15b	Liquefaction of Mine Tailings	Vijay K. Puri Todd R. Kostecki	USA USA

SESSION 5

Case Histories on Failure of Geological, Rock and Mining Engineering, Including Underground Structures and Excavations, and Subsidence of Deltas; Anticipation, Characterization, Design and Construction in the Geological Complexity of Mélanges, Fault Rocks, Weathered Rocks, Boulder Colluvium, Lahars and Similar Bimrocks (Block-in-Matrix Rocks) and Rock/Soil Mixtures, and Remediation

5.01	Modified Value of Rock Quality Designation Index RQD in Rock Formation	Ahmed T. M. Farid	Egypt
5.02	Influence of Relative Position of the Tunnels A Numerical Study on Twin Tunnels	W. Channabasavaraj B. Visvanath	India India
5.04	Amirkabir NATM Tunnel- A Case Study of Design Challenges in a Mega Project of Tunnel in Soft Ground	Aliakbar Golshani Ehsan Moradabadi	Iran Iran
5.06	Geotechnical and Geophysical Evaluation of the near Surface Faults and Cracks in Residential Area Underlain by Semi-Arid Shale	Khaled Al-Mutairi Muawia Dafalla Fouzan Al Fouzan Mosleh Al-Shamrani	Saudi Arabia Saudi Arabia Saudi Arabia Saudi Arabia
5.07	Piles Foundations under Earthquakes (withdrawn)	Shamsher Prakash Vijay K. Puri	USA USA
5.08	Promotion of Tunneling Performance in Locally Semi-Hard to Hard Conglomerate Lenses, Case of Esfahan Historical City Subway Project	Amir Hossein Haghi Ali Taheri A. Ehsan Haghi	Iran Iran Iran
5.09	Support System Design of Power House and Transformer Caverns in Dikchu Hydropower Project, Sikkim	Neelima Satyam D.	India
5.15	Tunnel Failure in Weathered Shale (withdrawn)	Lucas Walshire Ronald Wahl Sarwenaj Ashraf	USA USA USA
5.16	Geotechnical Study of Coal Rib Failure at Ananta Coal Mine, Orissa, India (withdrawn)	V. K. Singh	India

5.17	Slope Stability Analysis of Working Benches and Of The General Slope in the Open Pit Mine of Mergele “Hani I Elezit” (withdrawn)	Idaver H. Semial A. Januz M. Nexhmi K. Amet B.	Macedonia Republic of Kosovo Republic of Kosovo Republic of Kosovo Republic of Kosovo
5.18	Baltimore Red Line Project An Overview of the Cooks Lane Tunnel	Mohsen G. Kashi Verya Nasri	USA USA
5.19	Foundation and Structural Design of Lock Walls Founded on a Fault Zone	Rachael Bisnett Joseph Kovacich Juan Quiroz	USA USA USA
5.20	Numerical Analysis to Examine the Effect of Landslides on Tunnels	Keiichi Ota Senro Kuraoka Toshiya Takeshi	Japan Japan Japan
5.21	Slope Stability Analysis of the Working Level and Final Slope in the Surface Mine of Marls Near ‘Hani I Elezit’	Idaver Huseini Januz Mehmeti Nexhmi Krasniqi Ahmet Bytyçi Semijal Hasani-Ziberi	Republic of Fyrom Republic of Kosovo Republic of Kosovo Republic of Kosovo Republic of Fyrom
5.22	Three Dimensional Numerical Analysis for Soft Ground Tunneling	Navid Allahverdi Verya Nasri	USA USA
5.23	Understanding Sinkhole Consequences on Masonry Structures using Large Small-Scale Physical Modeling	Al Heib Marwan Nghiem Huu Luyen Emeriault Fabrice	France France France
5.24	Alternative Excavation Process for Slopes with a Potential Failure Plane: Case Study for the Mae Moh Open-Pit Lignite Mine of Thailand (withdrawn)	Mohammad Hossein Khosravi Jiro Takemura Thirapong Pipatpongsa Prajub Doncommul	Japan Japan Japan Thailand
5.25	Numerical and Rational Analysis of Shotcrete Lining for Rock Tunnels Under Effect of Explosion Loads	Adel M. Belal Hazem A. Hassan	Egypt Egypt

SESSION 6a

Case Histories on Soil Property Improvement; Expansive and Collapsible Soils for Earthquake Mitigation; Use of Lightweight Materials; Application of Geo-Synthetics; Effects and Risks of Foundations in Freshly Loaded Filled Ancient Marshy Lands; Vanished Ports such as Alexandria, Puri-Mahabalipuram and Other Unknown; Site Characterization

6.03a	Evaluation of Strength of Clayey Soil by UCS Test with Addition of Rice Husk Ash and Lime	Tapash Kumar Roy	India
6.04a	Stabilization and Reinforcement of Slope with Geogrid: A Case Study	Khashayar Hemmati Seyed Vahid Masoomi Javad Nazari Afshar	Iran Iran Iran
6.07a	Improvement of Dynamic Soil Properties Induced by Preloading Verified by a Field Test and Embankment Failure	K. Stamatopoulos P. Petridis P. S. Allkja G. Vatselas A. Small	Greece Greece Albania Greece UK
6.09a	An Assessment of Soil Collapsibility Due Dissolution of Salts	Omar AlHattamleh	Saudi Arabia
6.10a	Application of Nanomaterial to Stabilize a Weak Soil	Seyedi Gelsefidi Seyed Alireza Mirkazemi Seyed Mohammad Baziar Mohammad Hasan	Iran Iran Iran
6.11a	Bearing Capacity of Geosynthetic Reinforced Stone Column: Experimental Study (withdrawn)	Javad Nazari Afshar Mahmoud Ghazavi Khashayar Hemmati	Iran Iran Iran
6.12a	Case Studies on Application of Coir Geotextiles for Soil Stabilization	Beena K. S.	India
6.14a	Correlation between VS and RQD for Different Rock Types	Emre Biringen John Davie	USA USA
6.15a	Design and Construction of Compaction Grouting for Foundation Soil Improvements	King H. Chin Heidi P. Disla Bob Cote	USA USA USA
6.16a	Dynamic Properties of Stabilized Subgrade Clay Soil	Argaw Asha Ashango Nihar Ranjan Patra	India India
6.18a	Dynamic Compaction in Loose Granular Deposits; A Comparison Between Results from Conventional and Recent Improvement Methods.	Apostolos V. Kozompolis Panos Vettas George Chlimentzas	Greece Greece Greece

6.19a	Foundations Conditions Study for Aeolian Power Units on Soft Soils under Static and Seismic Loads. Case Study	Anton Chirica Dragos Vintila Diana Tenea	Romania Romania Romania
6.22a	Ground Improvement and Settlement Monitoring Program for a Power Plant Project	John J. W. Lee Ravee Raveendra Curt Basnett Yoga Chandran Robert Howard Roy Snover	USA USA USA USA USA USA
6.23a	Innovative Ground Improvement for Liquefaction Control near Charleston, South Carolina	Brian Metcalfe Kord Wissmann Kenneth Zur	USA USA USA
6.25a	Performance of Tanks Supported on DMM Columns in the Gulf Coast: Hydrotest Monitoring and Settlement Analysis (withdrawn)	Mahi Galagoda Fernando Parra Carlos Fuentes Pramod Rao	USA USA USA USA
6.26a	Response of Piles under a Combination of Axial Static Loads and Lateral Harmonic Vibrations	Ahmad Dehghanpoor	Italy
6.27a	Selection Activity Optimization for a Geotextile-Ash System from Filtration Function Point of View	Raluca Ioana Chirică Liviu Tit Taloş	Romania Romania
6.28a	Settlement of Large Embankment Construction Adjacent to a Buried Gas Pipeline - A Case History in Settlement Mitigation Using Lightweight Fill	Bret N. Lingwall Scott Anderson	USA USA
6.29a	Static and Cyclic Triaxial Testing of a Compacted Limestone Rockfill	Hamid Fallah	USA
6.30a	A Laboratory Study of Strong and Weak Sandstones	Arup Bandyopadhyay Hasan Abdullah	India India
6.31a	Study of Typical Characteristics of Expansive Subgrade with Geotextiles and Cushion Materials	Vaishali S. Gor L. S. Thakur K. R. Biyani	India India India
6.32a	The Investigation of Salinity Effects on Behavioral Parameters of Fine-Grained Soils	Hadiseh Mansouri Rassoul Ajalloeian Amir Hossien Sadeghpour	Iran Iran Iran
6.33a	Treating the Expansive Soil Subgrade on the Goaf of Middle-Shallow Layer by Dynamic Compaction with Geogrid Reinforcement	Yang He-ping Zhang Bin Yin Jin-tao Zhang Jin	China China China China
6.35a	WSASW Application for Soil Dynamic Properties in Soft Soil Investigation at Kelang, Malaysia	Sri Atmaja P. Rosyidi	Indonesia

6.37a	Building a State-of-the-Art Composting Facility on a Dry Lake Bed in Central California - Geotechnical Design Challenges (withdrawn)	Sridhar Nannapaneni Suji Somasundaram	USA USA
6.38a	Compaction Grouting for Seismic Retrofit of the North Torrey Pines Bridge	James R. Gingery Sunil Arora	USA USA
6.40a	Offshore Stone Columns under Embankment with Embedded Pipes	Mohab Sabry Mohamed A. Mostafa	USA Egypt
6.41a	Reducing Static Settlement Potential Using Prefabricated Wick Drains - A Case History	Judd J. King	USA
6.42a	SPT Rig Energy Calibrations: One Company's Perspective (withdrawn)	Edward L. Hajduk Craig S. Skiles Jackson C. Gosnell Anil Bhandari	USA USA USA USA
6.43a	Settlements due to Pre-Loading with Drainage Wicks (withdrawn)	Joseph E. Baka Mahi Galagoda Mark J. Wahler	USA USA USA
6.44a	Study of Extent of Soil Improvement by Employing Vibro-Compaction Technique	Tejas Belani Shailendra Nagrikar Deepak Raj	India India India
6.46a	Foundation Seismic Mitigation Using Cast-In-Place Ground Improvement Elements (CGE) (withdrawn)	Ronaldo Luna Neil Anderson Alec McGillivray	USA USA USA
6.47a	Seismic Bearing Capacity of Strip Footing Resting on Reinforced Earth Bed	Apoorva Agarwal Swami Saran S. Mukerjee	India India India
6.49a	Soil Property Improvement Using Slag Binder	Boldyrev Gennadii Idrisov Ilya	Russia Russia
6.50a	Investigation on Geosynthetic Reinforced Two Layered Soil System	P. B. Ullagaddi T. K. Nagaraj	India India
6.51a	The Use of High Strength Geosynthetics in Deep Soil Mixed Levee Foundations	Brian C. Baillie	USA

SESSION 6b

Case Histories on Geo-environmental Problems, including Soil and Groundwater Contamination, Geotechnical and Hydrological Management and Remediation of Solid, Hazardous and Low-Level Radioactive Wastes, Bioreactor Landfills, Landfill Liner and Cover Systems, Landfill Closure and Brownfield Redevelopment

6.02b	Dynamic Properties of Municipal Solid Waste in a Bioreactor Cell at Orchard Hills Landfill, Illinois, USA	Philip J. Carpenter Krishna R. Reddy Michael D. Thompson	USA USA USA
6.03b	Caverns in the Ground Under Thermal Power Plant, Caused by Static Electricity and Chemically Aggressive Water	Chavdar Vassilev Kolev Gergana Vassileva Gevezova	Bulgaria Bulgaria
6.04b	Stabilization of Contaminated Soil by Dicalcium Phosphate	Amin Falamaki Hossein Tavallali Sharbanoo Rezanejad Farahmand	Iran Iran Iran
6.08b	Use of Porous Concrete and Scoria Bases to Clean Groundwater Recharge	Kevin T. Harker James Mahar	USA USA
6.09b	Ground Improvement for Redevelopment of Former Landfill	Larry P. Jedele Brandon Buschmeier	USA USA
6.10b	Groundwater Circulation Model for Discovering Environmental Contamination of Springs (withdrawn)	Filippo Ciuffi	Italy
6.11b	Impacts of Drain Water on Soils and Crops and its Causes: A Case Study of Kamber Taluka, Pakistan (copyright authorization not received)	Noor Hussain	Pakistan
6.13b	A Comprehensive Model for Anaerobic Degradation in Bio-Reactor Landfills	Jay N. Meegoda S. Bhuvaneshwari P. A. Hettiaratchi H. Hettiarachchi	USA USA Canada USA
6.15b	Arsenic Contamination of Groundwater at the Middle Basin of Ganges in India	Yasunori Yano Kenichi Ito Hiroshi Yokota Koichiro Shiomori Shigeki Tomomatsu Mitsuhiro Sezaki	Japan Japan Japan Japan Japan Japan
6.16b	Closure and Post-Closure Redevelopment of the McColl Superfund Site	Edward Kavazanjian, Jr.	USA
6.17b	Soil Liquefaction Analysis Based on Geotechnical Exploration and in Situ Test Data in the Tabriz Metro Line 2 (copyright authorization not received)	Mikail Yousefzadeh Fard Mahyar Babazadeh Pouya Yousefzadeh	Iran Iran Iran

6.19b	Sedimentation Behavior of Fly Ash-Kaolinite Mixtures	Xin Kang Xiaoyi Zhao Bate Bate	USA USA USA
6.20b	Simulation of Inorganic and Organic Contaminants Transport in Sanitary Landfills	R. P. Singh	India

SESSION 7a

**Case Histories on Application of Geotechnics to Railway Engineering and to Rail Track Modernization;
Highway and Road Embankments/Transportation Systems**

7.01a	M74 Motorway, Glasgow – Geotechnical Aspects of Design and Construction	Paul Nowak	UK
7.02a	Ground Engineering for the Autoroute 30 PPP Project, Montréal, Canada	Chris Barker Alan Phear Romeo Ciubotariu Robert Talby Paul Quigley Richard Deakin Andrew Cushing	Canada UK Canada Canada Ireland Canada Canada
7.03a	Seismic Refraction Data and Dangerous Phenomena's in By-pass Vlora Road	Luljeta Bozo Skender Allkja	Albania Albania
7.05a	Two-Tier Retaining Wall System to Support Railroad Embankment Widening	Abhijit R. Sheth Craig M. Benedict Ara G. Mouradian John Brun	USA USA USA USA
7.06a	Alignment and Design of a 73-KM Long Coastal Road in the South-Central Segment of the Niger Delta, Nigeria	So-ngo Clifford Teme Mayne David-West Nathaniel Iboroma	Nigeria Nigeria Nigeria
7.07a	CSX Railroad Bridge Replacements	Matthew D. Breitenbach Dawn Edgell Gary F. Goodheart	USA USA USA
7.08a	Relook at Foundation Design of RE Structures in Indian Environment Based on Case Study	Ravin M. Tailor Jigisha M. Vashi Mahesh D. Desai	India India India
7.09a	Numerical Application of Drucker-Prager Model in Pavement Granular Material (withdrawn)	Behzad Ghadimi	Australia
7.11a	Study on Geotechnical Properties of Pit Soils: A Case Study on a Road in URMIA, Iran (withdrawn)	AbdolHossein Fazli Seye Mehdi Mousavi Fouzieh Roozmehr	Iran Iran Iran
7.13a	Investigating the Behaviour of Natural Slopes and Man Made Structures by Terrestrial SAR Interferometry	Paolo Mazzanti	Italy

SESSION 7b

Monitoring of Critical Geotechnical Constructions and Open Scale Excavation (Mining), Advanced Monitoring Techniques, Effective Monitoring Solutions, Warning Systems, Large Scale Mapping of Response (LIDAR, InSAR, etc.) for Construction Control, etc.

7.01b	Predicting Landslide Risk Combining Space Measurements and Geotechnical Modeling: Application at Kerasia Slide	C. Stamatopoulos	Greece
		P. Petridis	Greece
		L. Balla	Greece
		Parharidis	Greece
		M. Foumelis	Greece
		N. Nikolaou	Greece
7.02b	Predicting Ground Subsidence Induced by Pumping Combining Space Measurements and Geotechnical Modeling: Application in the Thessaly Region, Greece	N. Spanou	Greece
		C. Stamatopoulos	Greece
		P. Petridis	Greece
		L. Balla	Greece
		I. Parharidis	Greece
		M. Foumelis	Greece
7.03b	Prediction of Landslides Using Surface Wave Analysis Incorporating with GIS: A Case Study in Selangor, Malaysia	D. Fountoulis	Greece
		S. Lalehos	Greece
		Ch. Metaxas	Greece
		Zamri Chik	Malaysia
		S. M. Taohidul Islam	Malaysia
		7.04b	Access Road Construction of the LARSI Building using Reinforced Earth Walls
Atefeh Zamani	Iran		
Cambyse Behnia	Iran		
7.05b	Case History: Monitoring of a Large Excavation Support System (withdrawn)	Kathleen M. Murtagh	USA
		Roger W. A. Howard	USA
		Michael P. Smith	USA
7.06b	Deep Excavation in an Urban Area: A Case Study	Mohammad Sharif Rajabi	Iran
		Farzin Kalantary	Iran
7.07b	Effects of Arching on Measurement of Embedded Pressure Cell in Embankment Dam	Dorsa Elmi	Iran
		Ali Asghar Mirghasemi	Iran
7.08b	Large Scale Monitoring of Rejected Dikes along the Dutch Coast (withdrawn)	André R. Koelewijn	Netherlands
		Simon Paul	Netherlands
7.09b	Rebuild of US 27	Don W. Dotson	USA
		Christopher J. Ramsey	USA
7.10b	Wolf Creek Dam Instrumentation & Monitoring	Georgette Hlepas	USA
		W. G. Walker	USA

SESSION 8a

Case Histories on Forensic Geotechnical Engineering, Where Things Went Wrong; Reliability of Codes; Risk Analysis Pertaining to Public Structures, Non-Destructive Evaluation and Load Testing of Drilled Shafts, Auger Cast Piles and Driven Piles; and Damage Evaluation; Advance Information, Systems in the Geotechnical Risk Predication and Assessment

8.02a	Unknown Conditioning Inspection on Bridge Foundations (withdrawn)	Helsin Wang Chih-Hsin Hu	Taiwan R.O.C. Taiwan R.O.C.
8.03a	A Geotechnical Investigation on Scoured Foundations (withdrawn)	Helsin Wang	Taiwan R.O.C.
8.05a	Case of Ultimate Limit State Design and Eurocode 7-1	Petr Koudelka	Czech Republic
8.06a	Collapsed of Highland Towers, Selangor, Malaysia: A Case History (withdrawn)	Suhaimi Jamaludin Kamal Bahrin Jaafar	Malaysia Malaysia
8.07a	Evaluation of Seismic Source Models for PHSA of the Eastern Marmara Region after the 1999 Earthquakes (Mw= 7.4 and 7.2) and Comparison with the Newly Developed Seismic Source Model (withdrawn)	Selim Cambazoğlu Haluk Akgün Mustafa Kerem Koçkar	Turkey Turkey Turkey
8.08a	Geotechnical Forensic Investigation of Observed Cracks on a Building in Tallahassee, Florida	Rutuparna Joshi Kwasi Badu-Tweneboah David Riotte Rachel Klinger Aaron Cohen	USA USA USA USA USA
8.09a	Probabilistic Three-Dimensional Model of an Offshore Monopile Foundation: Reliability Based Approach	M. J. Vahdatirad L. V. Andersen L. B. Ibsen J. Clausen J. D. Sørensen	Denmark Denmark Denmark Denmark Denmark
8.10a	Forensic Geotechnical Distress Evaluation of Damaged Buildings in Alluvial-Loessic Soils; A Case History	Sarfraz Ali Abdul Qudoos Khan Usman Zafar Talha Haider Shehryar	South Africa Pakistan Pakistan Pakistan
8.12a	Behaviour of Laterally Loaded Piles	Berrak Teymur Zeynep Şekerer	Turkey Turkey
8.13a	Failure Investigation of a Helical Anchor Tie-Down System Supporting an Olympic Size Swimming Pool	Tom Labuda Gene W. Corley Michael Murphy	USA USA USA
8.14a	Observation of Stress Distribution on Instrumented Jet Grout Columns	Berrak Teymur Kaan Doğanışık	Turkey Turkey

8.15a	Preliminary and Working Pile Load Tests in Simsim Limestone	Terrence Carroll	USA
		Stuart Hardy	UK
		Elliott Ting	Qatar

SESSION 8b

Case Histories on Health Monitoring and Retrofit of Infrastructure, including Bridges, Tunnels, and other Transportation and Geotechnical Structures, and their Effects on Existing Facilities and Buildings, and Remediation

8.01b	The “Westlink” Project: Ensuring Infrastructure Safety during Construction in a Highly Sensitive Urban Environment by Combining Advanced Modeling and Monitoring Techniques (withdrawn)	Carlo I. Rabaiotti Michael Iten Frank Fischli	Switzerland Switzerland Switzerland
8.02b	A Case History of Super-Large Scale Bridge Pile Foundation in Soft Soil	Chao Yang Guoliang Dai Weiming Gong	China China China
8.03b	Ellis Island: Vibration Effects on Historic Buildings Caused by Pile Driving	Sixto Fernandez	USA
8.04b	Evaluation of Timber Pile Supported Marine Piers	Ram D. Singh	USA
8.05b	Geotechnical Opportunities on a Fast-Track Bridge Project	Joel W. Rinkel Christopher G. Naida	USA USA
8.06b	Health Monitoring of Dams: A New Procedure Devised (withdrawn)	Filippo Ciuffi	Italy