

**SIXTH INTERNATIONAL CONFERENCE ON
CASE HISTORIES IN GEOTECHNICAL ENGINEERING AND
SYMPOSIUM IN HONOR OF PROFESSOR JAMES K. MITCHELL
ARLINGTON, VA (USA) AUGUST 11-16, 2008**

List of Accepted Papers

STATE OF THE ART AND PRACTICE (SOAP) LECTURES

W. D. Liam Finn (Canada)	Keynote: The Impact of Low Probability Ground Motions on Canadian Geotechnical Engineering Practice
Yoshiaki Kikuchi (Japan)	Bearing Capacity Evaluation of Long, Large-Diameter, Open-Ended Piles SOAP 1
Pedro Seco e Pinto Joao Barradas Arlindo Sousa (Portugal)	Lessons Learned From Two Case Histories of Retaining Structures SOAP 2
K. Rainer Massarsch (Sweden) Bengt H. Fellenius (Canada)	Ground Vibrations Induced by Impact Pile Driving SOAP 3
Raymond B. Seed (USA)	Performance of the New Orleans Levee Systems in Hurricane Katrina SOAP 4 (not yet received)
Ronaldo Luna J. David Rogers (USA)	Recent Geotechnical Developments in Geospatial Information Systems Technology SOAP 5
Des. Hartford (Canada)	Risk Analysis in Geotechnical and Earthquake Engineering: State-of- the-Art and Practice for Embankment Dams SOAP 6
Ed Kavazanjian (USA)	The Indispensable Role of Case Histories in Landfill Engineering SOAP 7
William Van Impe (Belgium)	Evaluation of the Experiences in Underwater Dam Construction on Soft Soils SOAP 8
Scott Steedman (UK)	Modelling the Performance of Flood Protection Levees on Soft Soils SOAP 9 (withdrawn)
J. P. Singh (USA)	Use of Case Histories in Designing and Conducting Full Scale Load Test for Developing and Validating Numerical Methods SOAP 10 (not yet received)
Kjell Karlsrud Lars Andresen (Norway)	Design and Performance of Deep Excavations in Soft Clays SOAP 12

Clyde N. Baker, Jr.
Sara E. Knight
Ryan C. Rush
Donald W. Hamlin
(USA)

Unexpected Caisson Problems, Soil Structure Interaction Predictions and
Required Ground Modification SOAP 14

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(USA)

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SPECIAL LECTURES

George Gazetas
I. Anastasopoulos
(Greece)

Case Histories of Foundations on top of a Rupturing Normal Fault during the
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D.S. “Sax” Saxena
(USA)

Case Studies in Forensic Geotechnical and Foundation Engineering OSP 2

George E. Leventis
Kostis Syngros
Ricardo Dobry
(USA)

Chacao Channel Bridge – The Design Challenges OSP 3

Tony D. Canale
Joel Moskowitz
James L. Kaufman
(USA)

New York City High-rises on Rock: Uncovering the Unknown Leads to Variable
Foundation Solutions OSP 4

Rolf Katzenbach
Gregor Bachmann
Christian Gutberlet
(Germany)

Soil-Structure Interaction and ULS Design of Complex Deep Foundations OSP 5

A. Verghese Chummar
(India)

Case Studies of Failure of Cast-in-Situ Piles OSP 6

Nikos Gerolymos
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Analysis of Two Case Histories of Violent Landslides Triggered by Earthquakes
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Mark R. Svinkin
(USA)

Soil and Structure Vibrations from Construction and Industrial Sources OSP 8

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(UAE)

Ground Improvement Experience in Calcareous Sand Land Reclamation Mega
Projects of UAE OSP 9 (**withdrawn**)

Lanmin Wang
Zhijian Wu
Junjie Sun
Luxin Zhang
(China)

Qinghai-Tibet Railway, China and the Solutions to its Major Geotechnical Problems
for Construction OSP 10

SYMPOSIUM IN HONOR OF PROFESSOR JAMES K. MITCHELL

Richard A. Mitchell
(USA)

Evaluation and Long-term Performance Monitoring of Landfill Containment and
Control Systems JKM 1 (not yet received)

James M. Duncan (USA)	Failures of Floodwalls in New Orleans During Hurricane Katrina JKM 2 (not yet received)
Ed Kavazanjian Jr. Ismail Karatas (USA)	Microbiological Improvement of the Physical Properties of Soil JKM 3
Rudolph Bonaparte John F. Beech Leslie M. Griffin David K. Phillips Uday Kumthekar Johnny Reising (USA)	Design, Construction, and Performance of Low-Level Radioactive Waste Disposal Facility JKM 4
H. Turan Durgunoglu (Turkey)	Performance of Deep Soil Nailed Walls JKM 5
Kenichi Soga Hisham Mohamad Peter J. Bennett (United Kingdom)	Distributed Fiber Optics Strain Measurements for Monitoring Geotechnical Structures JKM 6

SESSION 1

“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”

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Enrique Padilla-Corona (Mexico)	Foundations on Expansive Soils in Mexico 1.04
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G. G. Boldyrev A. J. Muzemnek (Russia)	The Modeling of Deformation Process in Soils with use of Ansys and Ls-Dyna Programs 1.08
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SESSION 2

“Case Histories on Failures of Slopes, Dams, Embankments and Landfills, Including those on Landslides and other Mass Movements (Failure of Levees in New Orleans, Katrina, 2005, Debris Flows, Mudslides in California, Venezuela and Elsewhere) due to Rain, Flooding, Earthquakes, Anthropological and other Causative Factors”

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Byung-Sik Chun Chang-Koo Cho Jin-Young Kong Ju-Heon Lim Jeong-Wan Lee (Korea)	Analysis of Problems in Cut Slope Survey and Design Based on Case Studies 2.03
Constantine A. Stamatopoulos Stavros G. Aneroussis (Greece)	Back Analysis of the Malakassa Landslide Using the Multi-Block Model 2.04
R. D. Padhye P.B. Ullagaddi (India)	Case Study of Failure of A.R.C.C. Counterfort Retaining Wall 2.05
M. Chang G.M. Chiang S.D. Chen Y.S. Zhang H.C. Liu C.F. Wu (Taiwan, R.O.C.)	Investigation on Mechanism of Creep Deformation of Slopes in Woo-Wan-Chai Landslide Area, Taiwan 2.08

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M.A. Suvorov
(Russia) Calculation of Features of Many Row Pile Landslide Protection Structures 2.09
- S.B. Manolopoulou.
T.T. Papaliangas
T. Dimopoulos
(Greece) Analysis and Stabilization of a Failed Cut Slope in Schist 2.10
- Ebad Ghanbari
M. K. Noutash
(Iran) Mass Movement Landslide (June 10, 2005) Along Sarab-Ardebil Main Road (West Slope Savalan Volcanic Mountain) - Azerbaijan – Iran 2.12
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(Netherlands) Probabilistic Finite Elements with Dynamic Limit Bounds; A Case Study: 17th Street Flood Wall, New Orleans 2.16
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(Japan)
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(USA) Averted Piping Failure - Earth Dam on Permeable Foundation 2.28

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SESSION 3

“Case Histories and Failure of Geotechnical Earthquake Engineering, Including Land Slides; Lessons learned from Kobe 1995, Turkey 1999, Chi-Chi 1999, Greece 1999, Bhuj India 2001, Alaska and Italy 2002, Mexico, China and Algeria 2003, 2004 M-9 SE Indonesia and Japan Earthquake, 2005 Chile, Japan and other 2006 – 2008 Earthquakes; Reports on Recent Earthquakes”

Mitsu Okamura Shinya Shigematsu (Japan)	Damage to Masonry Retaining Walls during Niigataken Chuetsu Earthquake 3.01
Mahmood Seid-Karbasi James Ji Upul Akukorala Peter Byrne (Canada)	Prediction of Post-Earthquake Failure for a Near-Shore Slope in a Low Seismic Region 3.02
Arun Bapat (India)	Damage of Tall Structures Situated at Long Distance from Epicenter due to Long Period Seismic Waves and Effect on Structures on Filled Lands 3.03
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C.P. Kuo M. Chang R.E. Hsu S.H. Shau T.M. Lin (Taiwan, R.O.C.)	Evaluation of Liquefaction Potential and Post-Liquefaction Settlement of Tzuoswei River Alluvial Plain in Western Taiwan 3.05
Sri Atmaja P. Rosyidi (Indonesia) Mohd. Raihan Taha (Malaysia) Surya Budi Lesmana Joko Wintolo Agus Darmawan Adi (Indonesia)	Some Lessons from Yogyakarta Earthquake of May 27, 2006 3.08
Indra Prakash D. M. Pancholi (India)	Geotechnical Assessment and Evaluation of the Impact of Kachchh (Bhuj) India 2001 Earthquake 3.09

D.N. Lindberg R.C. Chaney J.P. Buck F.R. Bickner G.L. Manhart G.A. Vadurro (USA)	Probabilistic Estimation of Site Specific Fault Displacements 3.11
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Robert Kayen
Wm. Clint Steele
Brian Collins
Kevin Walker
(USA)

Google Earth Mapping of Damage from the Niigata-Ken-Chuetsu M6.6 Earthquake of 16 July 2007 3.55

Jorge F. Meneses
(USA)

Case Histories of Widespread Liquefaction and Lateral Spread Induced by the 2007 Pisco, Peru Earthquake 3.57

SESSION 4

“Case Histories of 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”

Kiyoshi Hayakawa
Ikuo Nakaya
Tadanori Nisimura
(Japan)

The Spread Phenomenon of a Low Frequency Ground Vibration to Originate in the Highway Bridge and its Simulation Analysis 4.01

Ikuo Nakaya
Kiyoshi Hayakawa
Takahiko Kashimoto
(Japan)

In-site and Model Experiments about Ground Vibration Isolation Method by Using Scrap Tire 4.02

Jost A. Studer
Rocco Panduri
Hans-Peter Höltschi
(Switzerland)

Synchrotron Facilities: Meeting Stringent Deformation and Vibration Criteria 4.04

Gregg L. Fiegel
Tom M. Farrell
(USA)

Measurement of Vibration and Noise during the Installation of Rammed Aggregate Piers 4.05

Emre Biringen
John Davie
(USA)

SPT Automatic Hammer Efficiency Revisited 4.06

Zhang-ming Li
Jun-hua Lin
(China)

A Case - Vibration Influences and its Evaluation in Muck Ground Improvement with the Static-dynamic Method 4.08

Frederick Tajirian
Mansour Tabatabaie
Fred Asiri
Andrei Seryi
(USA)

Calibration of Computer Program SASSI for Vibration Transmissibility Analysis in Underground Structures using Field Measured Data 4.09

Wei Zheng
(USA)

Large Pile Group Design Optimization with Lateral Resistance of Pile Cap 4.12

Amir M. Halabian
S. Hamid
Hashemolhosseini
Medhi Rezaei
(Iran)

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Gregory L. Hempen
(USA)

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Asher H. Peltz Joel L. Volterra Andrejs Delle Fred Streichenwein (USA)	Urban Blasting Vibrations: Case Histories of Vibration Monitoring in New York City 4.19
Ion Vlad Mirela-Nausica Vlad (Romania)	Case Study of Annoying Vibrations Generated by Unbalanced Forces of an Offset Printing Press 4.20
Behrouz Gatmiri S. Alireza Mirlatifi Keyvan Keyvanpazhoh (Iran)	Retrofitting of the Compressor Foundation by Cement Grouting 4.21
R. Sreekala N. Lakshmanan K. Muthumani N. Gopalakrishnan K. Sathishkumar (India)	Potential of Vibration Studies in the Soil Characterization Around Power Plants - A Case Study 4.22
Ion Vlad (Romania)	Case Study of the Malfunctioning of a “Compressor”- Foundation – Supporting Soil” System 4.24
Kaushik Dey B.K. Pal (India)	Ground Vibration – Unique Case Studies in Indian Coal Mines 4.25

SESSION 5

“Case Histories and Failure of Retaining Structures, Slurry Walls, and Deep Excavations, Dewatering Stability”

Kumars Zand-Parsa (USA) Kamran Zand-Parsa (Iran)	The Simplified KZP5 Method for Soil Nail Design in Granular Soils 5.01
Kumars Zand-Parsa (USA) Kamran Zand-Parsa (Iran)	Stability of a MSE Wall Under Bridge Falsework Bent Surcharge 5.02
Raj. V. Siddharthan Ali Porbaha (USA)	Seismic Response Validation of DM Treated Liquefiable Soils 5.03
Javad Safadoust Gholam Moradi (Iran)	Numerical Analysis of Algonquin Geogrid Reinforced Soil Retaining Wall under Construction and Earthquake Loading 5.04
Shaw-Shong Liew Chee-Min Khoo (Malaysia)	Lessons Learned from Two Investigation Cases of Ground Distresses due to Deep Excavation in Filled Ground 5.07

Shahriyar Mojahed Mark French (USA)	The Selection of an Earth Retention System at the Boston's Central Artery/Tunnel Project 5.08
Jan Masopust (Czech Republic)	Reconstruction of Pier Foundations of the Charles Bridge in Prague 5.10
José Matos e Silva (Portugal)	Behaviour Monitorization of a 13M High Gabions Wall 5.11
J.Jai J.H. Wang C.P. Liu L. L. Zhang X.L. Xie (China)	Behavior of an Excavation Adjacent to a Historical Building and Metro Tunnels in Shanghai Soft Clays 5.12
Bon Lien Jésus Gómez Chris Bailey (USA)	Design and Construction of Anchored Flexible Facing Excavation Support and Soldier Pile Wall 5.13
H.Bora Keskin H.Turan Durgunoglu Selim Ikiz (Istanbul)	Harmony of Retaining Systems to Various Local Subsoil Conditions - A Case Study 5.15
Dimitrios Konstantakos (USA)	Online Database of Deep Excavation Performance and Prediction 5.16
Patrick Becker Berhane Gebreselassie Hans-Georg Kempfert (Germany)	Back Analysis of a Deep Excavation in Soft Lacustrine Clay 5.17
Xiaohai Wang Francois G. Bernardeau Jean-Claude Younan (USA)	Slurry Trench Stability Analysis - Constructing Cement-Bentonite Slurry Trench Adjacent to Existing Soil-Bentonite Backfill 5.19
Abdolreza Osouli Youssef M.A. Hashash (USA)	Learning of Soil Behavior from Measured Response of a Full Scale Test Wall in Sandy Soil 5.20
Jeffrey C. Evans (USA)	Alamitos Gap: A Case Study using the Trench Remixing and Deep Wall Method 5.21
Salah Sadek (Lebanon)	Failure of a Hybrid Flexible Shoring System for a 30M Excavation: Exploration of Causes and Remedial Measures 5.22
Sami Arsoy (Turkey)	Analysis of a Group of Failing Retaining Walls and Remediation Measures 5.23
Wolfgang Roth Bei Su Jake Vanbaarsel Eric Lindquist (USA)	Effect of High In-Situ Stress on Braced Excavations 5.25

L. Yan D.A. Trapp A. Sy (Canada)	Construction of a Plastic Concrete Seepage Cutoff Wall for the New Coquitlam Dam 5.26
Ravinrda Gill Mahavir Bidasaria (India)	Anchored RCC Diaphragm Wall Cofferdam for Bisalpur Dam (A Case - Study) 5.29
Luljeta Bozo (Albania)	Failure of Retaining Structures in Town Lezha and their Consequence in Neighbouring Building 5.30
Fabio Matta Antonio Nanni (USA)	Structural Response of FRP Reinforced Concrete Softeyes for Tunnel Excavation 5.31
Hadi Suroor Mahi Galagoda Chris McGhee (USA)	Design and Construction of Circular Secant Pile Walls in Soft Clays 5.33
Richard Kulesza (USA) Nikos Boussoulas (Greece) W. Allen Marr (USA)	Deep Excavation in Hard Sandy Clays for Stations and Shafts of the Athens Metro Stavros Extension 5.34
Petr Koudelka (Czech Republic)	Granular Mass Behaviour under Passive Pressure 5.35
P. Jagannatha Rao (India)	Practical Lessons from the Failure of a Reinforced Soil Retaining Wall on a Major Highway 5.36
A.H. Sadeghpour A. Ghanbari M. Fadaee (Iran)	Groundwater Lowering in Deep Excavation (Case Study: Foundation Excavation of Shahid Madani Dam) 5.37
Meenal Gosavi Satyendra Mittal Swami Saran (India)	Stabilization of Gantry Column Foundation by Soil Nailing 5.40

SESSION 6a

“Case Histories and Failure of Geological, Rock and Mining Engineering, Including Underground Structures and Excavations, and Subsidence of Deltas”

D. Lo Presti M. Cravero G. Iabichino (Italy)	An “Unexpected” Rock Failure in a Limestone Open Pit Mine 6.01a
F. E. Volkov L. N. Gera (Russia)	Use of Strengthening Cementation when Civil Structures on Karsted Territory Construction 6.02a
R.K. Goel Anil Swarup (India)	Case History of Tunnelling Through Claystone 6.03a

S.Y. Mhaiskar R.A. Hegde C.R. Tata (India)	Columnar Basalt - Vibration Study and Preservation Methods at Mumbai, India 6.04a
Dimitrios Zekkos Julien Cohen-Waeber Edmund Medley Chris Hunt Krzysztof Jesionek (USA)	Characterization of a Weak Rock Mass and Geoengineering Analyses for a Canyon Landfill in Northern California 6.05a
Eric M. Klein Jennifer L. Trimble (USA)	Characterization of Piedmont Residual Soil and Saprolite in Maryland 6.07a
Gennaro G. Marino Mohamed Gamal Nagesh Malyala (USA)	Empirical Correlations of Longwall Subsidence Data for the Illinois Coal Basin 6.08a
M.S. Mundhe V.B. Pandhare N.M. Methekar Shriram R. Vaijapurkar (India)	Case History Compilation of Engineering Properties of Common Rocks in Maharashtra, India, for Database (1982-2002) 6.09a
M.S. Ranadive (India)	Shape Optimization of Tunnel by Finite Element Method 6.10a
Verya Nasri (USA) Christian Winum Pierre Magnien (France)	Rehabilitation of La Nerthe Tunnel on Paris-Marseille High-Speed Railway Line 6.11a
Verya Nasri (USA) Philippe Fauvel (France)	Construction of Express Subway Line EOLE in Paris 6.12a
J. Sturman E.B. Rehwoldt (USA) C.D. Martin (Canada)	Support of Rock Cuts at Washington-Dulles International Airport 6.13a
Fabrice Emeriault Richard Kastner Emilie Vanoudheusden (France)	Movements Induced by Tunnelling with an EPB Machine in Overconsolidated Soils: Compans Monitoring Section of Toulouse Subway Line B 6.14a
S. Taghipoor (Iran)	Application of Numerical Modelling to Study the Efficiency of Roof Bolting Pattern in East 1 Main Gate of Tabas Coal Mine 6.17a

SESSION 6b

“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”

Koichi Nakagawa
Shigenobu Yamada
Isamu Tsuka
(Japan)

Characterization of the Shear-Induced Potential (SIP) in Clay and the Application to Landslide Sites 6.01b

Amy L. Guisinger
Ching L. Kuo
Teresa Puckett
(USA)

Design and Construction of Drilled Shafts in Karst Environments of Florida 6.02b

Said Ghorbanbeigi
Jafar Najihamodi
(Iran)

Land Subsidence in Tehran District, Iran 6.07b

SESSION 7a

“Case Histories of Soil Property Improvement, Expansive and Collapsible Soils; for Earthquake Mitigation, Use of Lightweight Materials, Application of Geo-Synthetics; Freshly Loaded Filled Ancient Marshy Lands – The Effects and Risks of Foundation, (Vanished Ports such as Alexandria and Other Unknown, (Also from India-Puri-Mahabalipuram), Site Characterization”

S. Shababoddin Yasrobi
Ali Reza Zandieh
Mehrza Mortezaei
(Iran)

The Laboratory Test Effects of Polyvinyl Acetate and Polyvinyl Acrylate on Compressive Strength of Dune Sand 7.01a (final copy not yet received)

Runglawan Rachan
Suksun Horpibulsuk
(Thailand)

Compressive Strength of Repaired Road by Recycling Technique of Pavement Materials 7.02a

Byung-Sik Chun
Duk-Hum Park
Jong-Nam Do
Yong-Goo Jang
(Korea)

Improvement Characteristics of Ground using C.G.S. through Field Case Study 7.03a

San-Shyan Lin
Chih-Jung Chien
(China)

Use of Sand Compaction Piles for Improvement of a Coal Ash Pond 7.06a

Matthew J. DeMarco
(USA)

Polyurethane Resin (PUR) Injection for Rock Mass and Structure Stabilization 7.07a

Muawia A. Dafalla
(Saudi Arabia)

Improvement of Thermal Resistivity of Desert Sand for use in High Voltage Cable Beddings and Foundation in Arid Zones 7.09a

Jonathan Wu
(USA)
Kanop Ketchart
(Thailand)

Investigating Failure of a Geosynthetic-Reinforced Soil Wall in Black Hawk, Colorado 7.11a

J. M. Kate
(India)

A Case Study on Rectification of Damaged Structures on Expansive Soil Deposits 7.12a

B.M. Al-Khailany
R.R. Al-Omari
W.F. Sagman
(Iraq)

Geological Alterations and Chemical Treatment of a Polluted Limestone Foundation 7.14a

F.E. Volkov L.N. Gera (Russia)	Strengthening of Clay Soils of Buildings Bases under Reconstruction by Means of Alkalization 7.15a
Gareth Swift Russell Jones (United Kingdom)	The Design and Construction of a Reinforced Embankment on Soft Compressible Soil 7.16a
Stavros A. Savidis Frank Rackwitz Maik Schüßler (Germany)	Design and Construction of Granular Soil Columns for Ground Improvement of Very Soft Soils for Road Embankments 7.17a
Mounir Bouassida Lassaad Hazzar (Tunisia)	Comparison Between Stone Columns and Vertical Geodrains with Preloading Embankment Techniques 7.18a
Jose L. M. Clemente Tianfei Liao Thomas Nixon (USA)	Geogrid-Reinforced Soil Mat for Temporary Support of Heavy Equipment 7.19a
Vittorio Manassero Giuseppe Di Salvo Fabio Giannelli Giuseppe Colombo (Italy)	A Combination of Artificial Ground Freezing and Grouting for the Excavation of a Large Size Tunnel Below Groundwater 7.20a
A. Stanciu N. Boti I. Lungu O. Donciu (Romania)	Case Study of a Water Tank Behaviour on an Improved Collapsible Soil 7.21a
Omar S. B. Al-Amoudi (Saudi Arabia)	Testing and Stabilization of Saline Sabkha Soils: A Review 7.22a
Liaqat Ali Sarfraz Ali (Pakistan)	Enhancement of Bearing Capacity by Dynamic Compaction – A Case History 7.25a
Bak Kong Low (Singapore)	Settlement Analysis of Chek Lap Kok Trial Embankments with Probabilistic Extensions 7.26a
Adel M. El-Kelesh Tamotsu Matsui Ken-ichi Tokida (Japan)	Effectiveness of Compaction Grout Piles in Improving Foundation Soils of Existing Runway 7.27a
Antonio Cavallaro Salvatore Grasso Michele Maugeri (Italy)	Dynamic Geotechnical Characterization of San Giuliano Di Puglia Seismic Area 7.28a
Antonio Cavallaro Salvatore Grasso Valentina Lentini Michele Maugeri (Italy)	Geotechnical Characterization of a Soft Clay Soil Subjected to a Preloading Embankment 7.29a

- R. D. Verastegui Flores
W.F. Van Impe
P. Afschrift
W. Cromheeke
(Belgium)
- Performance of Deep Mixing Improvement of Alluvial Soft Soil 7.30a
- Franklin Fong
Chad M. Davis
(USA)
- Case History - Settlement Mitigation for Mat Foundation using Lean Concrete Columns 7.31a
- Hamid Reza Nouri
(USA)
Hamid Ali-Elahi
Mehdi Jalili
Ehsan Seyed Hosseininia
(Iran)
- Evaluation of Empirical Relationships for Dynamic Compaction in Liquefiable Reclaimed Silty Sand Layers using Pre/Post Cone Penetration Tests 7.32a
- Syed Faiz Ahmad
(Saudi Arabia)
- Ground Improvement of a Beach Structure Complex by Means of Stone Columns - A Saudi Arabian Case History 7.33a
- M.L. Rainone
P. Torrese
P. Signanini
F. Pizzica
(Italy)
- Seismic Characterisation of Soils with Spt: Comparison of Calculated Vs Values and Measured Vs Values 7.34a
- Sao-Jeng Chao
(Taiwan R.O.C.)
- Performance Study on Geosynthetic Reinforced Shallow Foundations 7.35a
- Ulrich La Fosse
Theodore von
Rosenvinge, IV
(USA)
- Earthquake Mitigation by Blast Densification 7.36a
- A.K.L. Kwong
X.F. Han
L.G. Tham
P.K.K. Lee
(Hong Kong)
W.B. Zhao
(China)
- A Field Test Study on Under Water Vacuum Preloading Method 7.39a
- Chee-Ming Chan
Siti Hajarahani Abdullah
(Malaysia)
- Settlement Behaviour of a Cement-stabilised Malaysian Clay 7.41a
- Hossein Nowamooz
F. Masroui
(France)
- Swelling Soils Behavior in Cyclic Suction-Controlled Drying and Wetting 7.42a
- Sanjeev Kumar
Miton Adhikari
(USA)
- Load-Deformation Behavior of Bentonite Amended Bottom Ash In Bending 7.43a
- Timothy J. Myers
Hristo K. Dobrev
John Szturo
Wayne Duryee
(USA)
- Improvement of Soil and Rock Properties for Foundation Support for Missouri Interchange Project 7.45a

David Rees Gillette (USA)	Review of In Situ Measurements as Indications of Liquefaction Potential at Numerous Sites 7.46a
Dimitar Antonov (Bulgaria)	Laboratory Seismic Wave Investigations on Improved Loess Soils as Engineered Barriers in the Radioactive Waste Repository Case 7.47a
Behzad Fatahi Buddhima Indraratna Hadi Khabbaz (Australia)	Case Study on the Influence of Transpiration on the Ground Behaviour 7.48a
Jan Najser Jan Bohac (Czech Republic) Emma Pooley Sarah Springman Jan Laue (Switzerland)	Construction of Motorway on Double Porosity Clay Fill 7.50a
Dimcho Evstatiev Yordan Evlogiev (Bulgaria)	Underground Facilities in Loess 7.52a
Dimcho Evstatiev Mariana Nedelcheva Yordan Evlogiev (Bulgaria)	Foundation Work of High TV Tower in Collapsible Loess 7.53a
Fernando da Casa Martín F. Celis D'Amico E. Echeverria Valiente P. Chías Navarro A. García Bodega (Spain)	Excavation for Underground Parking in Seville (Spain). Treatment with Reinforced Injections. 7.54a
F. Di Credico P. Signanini P. Torrese (Italy)	Some Interesting Results about Behaviour of Granular Media 7.55a
Dong K. Chang Hugh S. Lacy (USA)	Artificial Ground Freezing in Geotechnical Engineering 7.56a
Sven Hansbo (Sweden)	Soil Improvement by Means of Electro-Osmosis 7.58a
M. Nunez D. Dias C. Poilpre R. Kastner (France)	Soft Ground Improved by Rigid Vertical Piles. Experimental and Numerical Study of Two Real Cases in France 7.59a
Hide Yasuhara Takamasa Morito Yoshinori Kochi Mitsu Okamura (Japan)	Evolution of Soil Desaturation by Air-injection Technique and Its Evaluation via Multiphase Flow Simulation 7.60a

M. J. Hossain M. Alamgir M.A. Mahamud (Bangladesh)	Field Investigation on the Performance of Rammed Aggregate Pier in a Soft Ground of Bangladesh 7.66a
D.S.V. Prasad G.V.R. Prasada Raju (India)	Utilisation of Waste Plastics in Flexible Pavement Construction Laid on Expansive Soil Subgrade 7.68a
Ken Ivanetich Lisheng Shao (USA)	Jet Grouting for Mass Treatment to Support an Aggregate Stockpile Building over Very Soft Clays 7.69a
Adil Godiwalla (USA)	Advanced, Modern and Innovative Technologies Used at The Houston Airport System (Stabilized Subgrades and Stabilized Bases) 7.70a

SESSION 7b

“Case Histories of Environmental Contamination and Problems including, Geotechnical and Hydrological Management and Remediation of Solid, Hazardous and Low-Level Radioactive Wastes, including Liner Cover Systems and Landfill Closure for Brownfield Development”

Sanjay Das Indra Prakash (India)	Assessment of Groundwater Hazards in a Coastal District of Gujarat, India 7.01b
R. Jeffrey Dunn (USA)	Lessons Learned from Closing Three Major Landfills – The Devil Really is in the Details 7.03b
B.N. Moolchandani (India)	Subject Areas of Geotechnological Engineering (GE) with Case Studies W.R.T. Indian Scenario. Case Study of Recharging Surface Ground Water at Source, Ensuring No Contamination of Water (A GE Subject) 7.09b
Derrick A. Shelton David A. Schoenwolf Nisha P. Mohanan (USA)	Redevelopment of a Municipal Solid Waste Landfill: Engineering Design Challenges 7.10b

SESSION 8a

“Case Histories of Projects of District of Columbia, Maryland and Virginia; DC Monuments; Washington Monument, WWII Memorial, Lincoln Memorial,, and Reflecting Pool; DC Convention Center, New I-95 Woodrow Bridge over the Potomac D. C. Metro, Springfield Interchange, The Dulles Light Rail Project.”

David Rothenberg Mamoud Hosseini (USA)	Case History of the Temporary Support of an 11-Story Historic Building in Downtown Washington, DC 8.01a
Hiren J. Shah Hugh S. Lacy Matthew B. Van Rensler (USA)	Mechanically Reinforced Earth for Steep Surcharge Slopes in Proximity of Adjacent Structures to Improve Compressible Soils 8.02a
Cory Surber Mamoud Hosseini (USA)	Excavation and Shoring Support for the National Institutes of Health East Redundancy Loop Project at Building 10 on N.I.H. Campus in Bethesda Maryland 8.03a
Eric M. Klein Jennifer L. Trimble Bibek B. Shrestha (USA)	Tied-Back Top-Down Wall to Support I-295 Ramp 8.04a

Douglas W. Christie (USA)	Foundations for Memorials and Monuments on the National Mall 8.05a
Roderic A. Ellman, Jr. (USA)	New I-95 Woodrow Wilson Bridge Foundations 8.07a
Victor Omelchenko Mamoud Hosseini (USA)	Excavation Support for the Newseum Development at 555 Pennsylvania Avenue in Washington, D.C., USA 8.09a
Irvin Ragsdale Keki Wadia (USA)	Temporary Support of Excavation System for 300 New Jersey Avenue 8.10a

SESSION 8b

“Case Histories of 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” and “Advance Information, Systems in the Geotechnical Risk Predication and Assessment”

So-ngo Clifford Teme O.D. Ngerebara Essien Ubong (Nigeria)	Need for Prior Geotechnical Engineering Studies for Foundation Design: Cases of Collapsed Buildings in Port Harcourt and Environs, Nigeria 8.01b
Mary Perlea Scott Loehr (USA)	Geotechnical Risk Analysis of the Local Flood Control Projects on the Kansas River in Topeka, Kansas 8.02b
E.T. Arshba V.A. Barvashov G.V. Vasyukov (Russia)	Two History Cases of Innovations 8.04b
Debasis Roy Raghvendra Singh (India)	Failure of Two High Embankments at Soft Soil Sites 8.06b
M. B. Mgangira P. Paige-Green (South Africa)	Evaluation of Damage to a Road and a Sports Complex on Expansive Clays 8.08b
Xiong (Bill) Yu (USA) Yuewen Huang (China)	Forensic on Construction Induced Failure of Pipe Pile Foundations 8.13b

SESSION 8c

“Case Histories of Health Monitoring and Retrofit of Infrastructure, including Bridges, Tunnels, and other Transportation and Geotechnical Structures”

So-ngo Clifford Teme Essien Ubong (Nigeria)	An Evaluation of the Geotechnical Characteristics of the Abutments of a Proposed Bridge Across a 400-Meter River Channel in the Lower Niger Delta, Nigeria 8.01c
So-ngo Clifford Teme Essien Ubong (Nigeria)	Subsurface Geotechnical Engineering Investigations for a 9.833-KM Long Road and 130-Meter Wide Bridge in a Karst Topography in South-South Nigeria 8.02c

- António Topa Gomes Design and Behavior of Salgueiros Station for Porto Metro 8.04c
 António Silva Cardoso
 Jorge Almeida e Sousa
 (Portugal)
 José Carlos Andrade
 Carlos Augusto
 Campanhã
 (Brazil)
- Jésus E. Gómez Bond Strength of Hollow-Core Bar Micropiles 8.05c
 Carlos J. Rodriguez
 Helen D. Robinson
 Johanna Mikitka
 Larry Keough
 (USA)
- Luis Fargier-Gabaldon Ancient Landslide Reactivation at the Viaduct No. 1 Located on the Caraca-La- Guaira
 Daniel A. Salcedo Highway in Venezuela 8.08c
 Rosendo Camargo-
 Mora
 (Venezuela)
- Konstantinos Damage of Railway Sleepers under Dynamic Loads: A Case History from the Greek
 Giannakos Railway Network 8.09c
 (Greece)
- Hoe-Chian Yeow Case Histories Back Analyses for the Application of the Observational Method under
 Ian Feltham Eurocodes for the SCOUT Project 8.12c
 (United Kingdom)
- Spyros Tsoukantas Investigation on the Causes of Longitudinal Cracks on Prestressed Monoblock
 Konstantinos Railway Sleepers of Metric Gauge of the Greek Railway Network 8.13c
 Tzanakakis
 Danai Spyropoulou
 Petros Panopoulos
 Manto Mintzia
 (Greece)

SESSION 9

“Case Histories of Offshore Geotechnics; Effects of Soft Clay on Off-shore Foundations; and Gas Production on Soils and Foundation and Stability”

- Wolfgang G. Brunner New BAUER Flydrill System Drilling Monopiles at Barrow Offshore Wind Farm,
 Manfred Beyer UK 9.01
 (Germany)
- A. Arulrajah Case Study of the Changi East Land Reclamation Project, Singapore 9.03
 (Australia)
 M.W. Bo
 (Canada)
 H. Nikraz
 (Australia)
- Paul Doherty Degradation of Axial Shaft Capacity of Piles in Soft Clay Due to Cyclic Loading 9.04
 Kenneth Gavin
 (Ireland)
- Alp Gökalp Ice Protection Barrier Construction in Caspian Sea 9.07
 Rasin Düzceer
 (Turkey)

Gareth Swift (United Kingdom)	Geotechnical Design of an Offshore Gravity Base Structure 9.08
Francesco Mirabelli Lorenzo Paoletti Eric J. Parker (Italy)	Jackup Rig Spud Can Penetration: A 6,000 Ton Load Test 9.09
Masaru Fujimoto Takechiho Tabata Tsuyoshi Emura Masato Nakamichi (Japan)	Construction of Mass Concrete Structure Utilizing Ground Settlement from Underpass Construction in the 2nd Phase Kansai International Airport Project 9.10

SESSION 10

“Application of Geotechnical Engineering in Outer Space, including Granular Material Behavior in Lunar and Martian Environments; Granular Material Behavior in Asteroidal and Cometary Environments; Extra-terrestrial Mining, Construction, and Transportation Infrastructure Development; R&D and Technology Trial Results”

Philip T. Metzger John E. Lane Christopher D. Immer Sandra Clements (USA)	Cratering and Blowing Soil by Rocket Engines during Lunar Landings 10.01
Leslie Gertsch Jamal Rostami Robert Gustafson (USA)	Review of Lunar Regolith Properties for Design of Low Power Lunar Excavators 10.02

SESSION 11a

“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)?”

J. David Rogers (USA)	A Historical Perspective on Geotechnical Case Histories Courses (Distinguished Speaker)
Peter Scharle (Hungary)	Streamlining Case Studies for Education 11.01a
Sanjeev Kumar (USA)	Geotechnical Failures: An Excellent Tool to Teach Geotechnical Engineering 11.02a
Arun Bapat (India)	Monitoring Seismic and Geophysical Parameters with the Help of College Instruments and Staff 11.03a
Waddah Akili (USA)	Case Histories in Geotechnical Engineering: Enhancing the Practice in an Interactive Learning Environment 11.04a
William D. Lawson (USA)	Soil Sampling at Sword Beach – Luc-sur-Mer, France, 1943: How Geotechnical Engineering Influenced the D-Day Invasion and Directed the Course of Modern History 11.06a
Matthew Mauldon Kristin Brennan (USA)	Exploring Case Histories: Chocolatetown PA 11.07a

Liaqat Ali Sarfraz Ali (Pakistan)	From Case Histories to Conceptual Models 11.10a
Chavdar V. Kolev (Bulgaria)	One Hundred Years Settlement of the Verna's Breakwater – Construction on Soft Clay Like a Typical Example from University Program of Port Construction in Bulgaria 11.11a
Sukhmander Singh (USA)	Case Histories Oriented Teaching of Geotechnical Engineering 11.12a
Jacques Harb (Lebanon)	Addressing the Geotechnical Case Histories of Beirut 11.13a
Declan Phillips (Ireland)	Benefits of Case Based Instruction in Undergraduate Geotechnical Education 11.14a
K.S. Babu Narayan B.M. Sunil (India)	Use of Case Histories to Enhance Practical Geotechnical Engineering 11.15a
Maj Goril Baverfjord Vikas Thakur (Norway)	The Verdal and Rissa Landslides – Application of Case Histories in Education 11.17a
Mohamed Djebbi Mounir Bouassida (Tunis)	Educating Students through Understanding the Pathology of Geotechnical Projects 11.18a
Carsten H. Floess (USA)	Use of Case Histories in the Classroom 11.19a
Jiri Slovak Jiri Svoboda Radek Vasicek Pavla Bauerova (Czech Republic)	Josef Exploration Drift - From Exploration of Gold to Unique Facility for Geotechnical Research, Education and Training 11.20a
Peter Scharle (Hungary)	Application of Case Studies in Education 11.21a

SESSION 11b

“Application of Case Histories to Practice; Use of Case Histories to Enhance Practical Geotechnical Engineering; Practice in Different Offices to Achieve this Objective with Examples; Importance of Lifelong Learning; Use of Case Histories in Life Long Learning; Establishing an International data base for Case Histories.”

Fabrice Emeriault Richard Kastner Rodolphe Louis-Sidney Elöd Egyed-Zsigmond (France)	A New International Database on Case Histories of Monitored Construction of Tunnels and Deep Excavations 11.02b
Scott Shuler (USA)	Implications of Swelling Clays on Asphalt Pavement Performance in Colorado 11.03b

Ahmed Mohammed Thamer A.A. Aziz B.B.K. Huat (Malaysia)	Incorporating Case Study and Site Visit for Teaching of Earth and Hydraulic Structures at Universiti Putra Malaysia 11.04b
Chavdar V. Kolev (Bulgaria)	Landslides in Balchik – the Biggest Nature Experiment for Shore Protection in Bulgaria 11.05b
Liaqat Ali Sarfraz Ali (Pakistan)	Use of Case Histories to Enhance Practical Geotechnical Engineering 11.06b
Lizè Groenewald Francis Legge (South Africa)	Foundations of the Nation: The Hillbrow and Brixton Towers as Figurations of National Identity in South Africa 11.07b
A.R. Koelewijn A.M.J. Mens (Netherlands)	Geobrain: Dutch Feasibility Database for Installing Sheet Pile Walls 11.08b
David J. Baxter Neil Dixon Paul R. Fleming Ken A. Cromwell (United Kingdom)	Using Experience and Case History Data to Enhance the Design of Piled Foundations and Predict Behaviour Characteristics 11.09b
Shubhada S. Jagtap Annapurni Iyer Minimol Korulla (India)	Emerging Innovative Solutions Enhancing Practical Geotechnical Engineering 11.10b
V.T. Ganpule S.Y. Mhaiskar (India)	Deterioration of Bored Cast In Situ Piles due to Aggressive Water 11.11b
Camilo Marulanda Escobar Alberto Marulanda Posada (Colombia)	Recent Experience on Design, Construction and Performance of CFRD Dams 11.14b