



**6th International Conference on
Case Histories in Geotechnical Engineering, Arlington, VA, August 11-16, 2008**

**Proceedings
6th International Conference on Case Histories in
Geotechnical Engineering
August 11-16, 2008
Arlington, VA**

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Seismic Site Characterization of Delhi Region Using Microtremor Method: A Case Study 3.51

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K.S. Rao
(India)

Some Experimental Investigations for the Development of Integrated Model of a Structure with the Controllable Fluid Damper 3.52

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T. Govindasamy
G.K. Arun Vivek
J. Abdul Bari
(India)

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Ramón Verdugo
César Pastén
(Chile)

Recent Damaging Earthquakes in Japan, 2003-2008 3.54

Robert Kayen
(USA)

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

Robert Kayen
Wm. Clint Steele
Brian Collins
Kevin Walker
(USA)

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"

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

Kiyoshi Hayakawa
Ikuo Nakaya
Tadanori Nisimura
(Japan)

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

Ikuo Nakaya
Kiyoshi Hayakawa
Takahiko Kashimoto
(Japan)

Synchrotron Facilities: Meeting Stringent Deformation and Vibration Criteria 4.04

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

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

Gregg L. Fiegel
Tom M. Farrell
(USA)

SPT Automatic Hammer Efficiency Revisited 4.06

Emre Biringen
John Davie
(USA)

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

Zhang-ming Li
Jun-hua Lin
(China)

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

Frederick Tajirian
Mansour Tabatabaie
Fred Asiri
Andrei Seryi
(USA)

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

Wei Zheng
(USA)

Nonlinear Seismic Analysis of Buried Pipelines during Liquefaction 4.16

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

Destructive Water-Borne Pressure Waves 4.17

Gregory L. Hempen
(USA)

Mitigation of Adverse Vibrations in Nearby Structures Arising from a Large Forge Hammer 4.18

Sami Arsoy
(Turkey)

Urban Blasting Vibrations: Case Histories of Vibration Monitoring in New York City 4.19

Asher H. Peltz
Joel L. Volterra
Andrejs Delle
Fred Streichenwein
(USA)

Case Study of Annoying Vibrations Generated by Unbalanced Forces of an Offset Printing Press 4.20

Ion Vlad
Mirela-Nausica Vlad
(Romania)

Retrofitting of the Compressor Foundation by Cement Grouting 4.21

Behrouz Gatmiri
S. Alireza Mirlatifi
Keyvan Keyvanpazhoh
(Iran)

Potential of Vibration Studies in the Soil Characterization around Power Plants - A Case Study 4.22

R. Sreekala
N. Lakshmanan
K. Muthumani
N. Gopalakrishnan
K. Sathishkumar
(India)

Case History of the Malfunctioning of a "Compressor-Foundation-Supporting Soil" System 4.24

Ion Vlad
(Romania)

Ground Vibration – Unique Case Studies in Indian Coal Mines 4.25

Kaushik Dey
B.K. Pal
(India)

SESSION 5

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

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

Kumars Zand-Parsa
(USA)
Kamran Zand-Parsa
(Iran)

Seismic Response Validation of DM Treated Liquefiable Soils 5.03

Raj. V. Siddharthan
Ali Porbaha
(USA)

Numerical Analysis of Algonquin Geogrid Reinforced Soil Retaining Wall under Construction and Earthquake Loading 5.04

Javad Safadoust
Golam Moradi
(Iran)

Lessons Learned from Two Investigation Cases of Ground Distresses due to Deep Excavation in Filled Ground 5.07

Shaw-Shong Liew
Chee-Min Khoo
(Malaysia)

The Selection of an Earth Retention System at the Boston's Central Artery/Tunnel Project 5.08

Shahriyar Mojahed
Mark French
(USA)

Reconstruction of Pier Foundations of the Charles Bridge in Prague 5.10

Jan Masopust
(Czech Republic)

Behaviour Monitorization of a 13M High Gabions Wall 5.11

José Matos e Silva
(Portugal)

Behavior of an Excavation Adjacent to a Historical Building and Metro Tunnels in Shanghai Soft Clays 5.12

J.Jai
J.H. Wang
C.P. Liu
L. L. Zhang
X.L. Xie
(China)

Design and Construction of Anchored Flexible Facing Excavation Support and Soldier Pile Wall 5.13

Bon Lien
Jésus Gómez
Chris Bailey
(USA)

Harmony of Retaining Systems to Various Local Subsoil Conditions - A Case Study 5.15

H. Bora Keskin
H. Turan Durgunoglu
Selim Ikiz
(Istanbul)

Online Database of Deep Excavation Performance and Prediction 5.16

Dimitrios Konstantakos
(USA)

Back Analysis of a Deep Excavation in Soft Lacustrine Clays 5.17

Patrick Becker
Berhane Gebreselassie
Hans-Georg Kempfert
(Germany)

Slurry Trench Stability Analysis - Constructing Cement-Bentonite Slurry Trench Adjacent to Existing Soil-Bentonite Backfill 5.19

Xiaohai Wang
Francois G. Bernardeau
Jean-Claude Younan
(USA)

Learning of Soil Behavior from Measured Response of a Full Scale Test Wall in Sandy Soil 5.20

Abdolreza Osouli
Youssef M.A. Hashash
(USA)

Alamitos Gap: A Case Study using the Trench Remixing and Deep Wall Method 5.21

Jeffrey C. Evans
(USA)

Failure of a Hybrid Flexible Shoring System for a 30M Excavation: Exploration of Causes and Remedial Measures 5.22

Salah Sadek
(Lebanon)

Analysis of a Group of Failing Retaining Walls and Remediation Measures 5.23

Sami Arsoy
(Turkey)

Effect of High In-Situ Stress on Braced Excavations 5.25

Wolfgang Roth
Bei Su
Jake Vanbaarsel
Eric Lindquist
(USA)

Construction of a Plastic Concrete Seepage Cutoff Wall for the New Coquitlam Dam 5.26

L. Yan
D.A. Trapp
A. Sy
(Canada)

Anchored RCC Diaphragm Wall Cofferdam for Bisalpur Dam (A Case - Study) 5.29

Ravinrda Gill
Mahavir Bidasaria
(India)

Failure of Retaining Structures in Town Lezha and their Consequence in Neighbouring Building 5.30

Luljeta Bozo
(Albania)

Structural Response of FRP Reinforced Concrete Softeyes for Tunnel Excavation 5.31

Fabio Matta
Antonio Nanni
(USA)

Design and Construction of Circular Secant Pile Walls in Soft Clays 5.33

Hadi Suroor
Mahi Galagoda
Chris McGhee
(USA)

Deep Excavations in Hard Sandy Clays for Stations and Shafts of the Athens Metro Stavros Extension 5.34

Richard Kulesza
(USA)
Nikos Boussoulas
(Greece)
W. Allen Marr
(USA)

Granular Mass Behaviour under Passive Pressure 5.35

Petr Koudelka
(Czech Republic)

Practical Lessons from Failure of a Reinforced Soil Retaining Wall on a Major Highway 5.36

P. Jagannatha Rao
(India)

Groundwater Lowering in Deep Excavation (Case Study: Foundation Excavation of Shahid Madani Dam) 5.37

A.H. Sadeghpour
A. Ghanbari
M. Fadaee
(Iran)

Stabilization of Gantry Column Foundation by Soil Nailing 5.40

Meenal Gosavi
Satyendra Mittal
Swami Saran
(India)

SESSION 6a

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

An "Unexpected" Rock Failure in a Limestone Open Pit Mine 6.01a

D. Lo Presti
M. Cravero
G. Iabichino
(Italy)

Use of Strengthening Cementation when Civil Structures on Karsted Territories Construction 6.02a

F. E. Volkov
L. N. Gera
(Russia)

Case History of Tunnelling Through Claystone 6.03a

R.K. Goel
Anil Swarup
(India)

Columnar Basalt - Vibration Study and Preservation Methods at Mumbai, India 6.04a

S.Y. Mhaikar
R.A. Hegde
C.R. Tata
(India)

Characterization of a Weak Rock Mass and Geoengineering Analyses for a Canyon Landfill in Northern California 6.05a

Dimitrios Zekkos
Julien Cohen-Waeber
Edmund Medley
Chris Hunt
Krzysztof Jesionek
(USA)

Characterization of Piedmont Residual Soil and Saprolite in Maryland 6.07a

Eric M. Klein
Jennifer L. Trimble
(USA)

Empirical Correlations of Longwall Subsidence Data for the Illinois Coal Basin 6.08a

Gennaro G. Marino
Mohamed Gamal
Nagesh Malyala
(USA)

Case History Compilation of Engineering Properties of Common Rocks in Maharashtra, India, for Database (1982-2002) 6.09a

M.S. Mundhe
V.B. Pandhare
N.M. Methekar
Shriram R. Vaijapurkar
(India)

Shape Optimization of Tunnel by Finite Element Method 6.10a

M.S. Ranadive
(India)

Rehabilitation of La Nerthe Tunnel on Paris-Marseille High-Speed Railway Line 6.11a

Verya Nasri
(USA)
Christian Winum
Pierre Magnien
(France)

Construction of Express Subway Line EOLE in Paris 6.12a

Verya Nasri
(USA)
Philippe Fauvel
(France)

Support of Rock Cuts at Washington-Dulles International Airport 6.13a

J. Sturman
E.B. Rehwoldt
(USA)
C.D. Martin
(Canada)

**Movements Induced by Tunnelling with an EPB Machine in Overconsolidated Soils:
Compans Monitoring Section of Toulouse Subway Line B 6.14a**

Fabrice Emeriault
Richard Kastner
Emilie Vanoudheusden
(France)

**Application of Numerical Modelling to Study the Efficiency of Roof Bolting Pattern in
East 1 Main Gate of Tabas Coal Mine 6.17a**

S. Taghipoor
(Iran)

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"**

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

Koichi Nakagawa
Shigenobu Yamada
Isamu Tsuka
(Japan)

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

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

Land Subsidence in Tehran District, Iran 6.07b

Said Ghorbanbeigi
Jafar Najihamodi
(Iran)

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"

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

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

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

Runglawan Rachan
Suksun Horpibulsuk
(Thailand)

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

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

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

San-Shyan Lin
Chih-Jung Chien
(China)

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

Matthew J. DeMarco
(USA)

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

Muawia A. Dafalla
(Saudi Arabia)

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

Jonathan Wu
(USA)
Kanop Ketchart
(Thailand)

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

J. M. Kate
(India)

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

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

**Strengthening of Clay Soils of Buildings Bases under Reconstruction by Means of
Alkalization 7.15a**

F.E. Volkov
L.N. Gera
(Russia)

**The Design and Construction of a Reinforced Embankment on Soft Compressible Soil
7.16a**

Gareth Swift
Russell Jones
(United Kingdom)

**Design and Construction of Granular Soil Columns for Ground Improvement of Very
Soft Soils for Road Embankments 7.17a**

Stavros A. Savidis
Frank Rackwitz
Maik Schübler
(Germany)

**Comparison between Stone Columns and Vertical Geodrains with Preloading
Embankment Techniques 7.18a**

Mounir Bouassida
Lassaad Hazzar
(Tunisia)

Geogrid-Reinforced Soil Mat for Temporary Support of Heavy Equipment 7.19a

Jose L. M. Clemente
Tianfei Liao
Thomas Nixon
(USA)

**A Combination of Artificial Ground Freezing and Grouting for the Excavation of a
Large Size Tunnel Below Groundwater 7.20a**

Vittorio Manassero
Giuseppe Di Salvo
Fabio Giannelli
Giuseppe Colombo
(Italy)

Case Study of a Water Tank Behaviour on an Improved Collapsible Soil 7.21a

A. Stanciu
N. Boti
I. Lungu
O. Donciu
(Romania)

Testing and Stabilization of Saline Sabkha Soils: A Review 7.22a

Omar S. B. Al-Amoudi
(Saudi Arabia)

Enhancement of Bearing Capacity by Dynamic Compaction – A Case History 7.25a

Liaqat Ali
Sarfraz Ali
(Pakistan)

Settlement Analysis of Chek Lap Kok Trial Embankments with Probabilistic Extensions 7.26a

Bak Kong Low
(Singapore)

Effectiveness of Compaction Grout Piles in Improving Foundation Soils of Existing Runway 7.27a

Adel M. El-Kelesh
Tamotsu Matsui
Ken-ichi Tokida
(Japan)

Dynamic Geotechnical Characterization of San Giuliano Di Puglia Seismic Area 7.28a

Antonio Cavallaro
Salvatore Grasso
Michele Maugeri
(Italy)

Geotechnical Characterization of a Soft Clay Soil Subjected to a Preloading Embankment 7.29a

Antonio Cavallaro
Salvatore Grasso
Valentina Lentini
Michele Maugeri
(Italy)

Performance of Deep Mixing Improvement of Alluvial Soft Soil 7.30a

R. D. Verastegui Flores
W.F. Van Impe
P. Afschrift
W. Cromheeke
(Belgium)

Case History - Settlement Mitigation for Mat Foundation using Lean Concrete Columns 7.31a

Franklin Fong
Chad M. Davis
(USA)

Evaluation of Empirical Relationships for Dynamic Compaction in Liquefiable Reclaimed Silty Sand Layers using Pre/Post Cone Penetration Tests 7.32a

Hamid Reza Nouri
(USA)
Hamid Ali-Elahi
Mehdi Jalili
Ehsan Seyedi Hosseininia
(Iran)

Ground Improvement of a Beach Structure Complex by Means of Stone Columns - A Saudi Arabian Case History 7.33a

Syed Faiz Ahmad
(Saudi Arabia)

Seismic Characterisation of Soils with Spt: Comparison of Calculated Vs Values and Measured Vs Values 7.34a

M.L. Rainone
P. Torrese
P. Signanini
F. Pizzica
(Italy)

Performance Study on Geosynthetic Reinforced Shallow Foundations 7.35a

Sao-Jeng Chao
(Taiwan R.O.C.)

Earthquake Mitigation by Blast Densification 7.36a

Ulrich La Fosse
Theodore von Rosenvinge, IV
(USA)

A Field Test Study on Under Water Vacuum Preloading Method 7.39a

A.K.L. Kwong
X.F. Han
L.G. Tham
P.K.K. Lee
(Hong Kong)
W.B. Zhao
(China)

Settlement Behaviour of a Cement-stabilised Malaysian Clay 7.41a

Chee-Ming Chan
Siti Hajarahani Abdullah
(Malaysia)

Swelling Soils Behavior in Cyclic Suction-Controlled Drying and Wetting 7.42a

Hossein Nowamooz
F. Masrouri
(France)

Load-Deformation Behavior of Bentonite Amended Bottom Ash In Bending 7.43a

Sanjeev Kumar
Miton Adhikari
(USA)

Improvement of Soil and Rock Properties for Foundation Support for Missouri Interchange Project 7.45a

Timothy J. Myers
Hristo K. Dobrev
John Szturo
Wayne Duryee
(USA)

Review of In Situ Measurements as Indications of Liquefaction Potential at Numerous Sites 7.46a

David Rees Gillette
(USA)

Laboratory Seismic Wave Investigations on Improved Loess Soils as Engineered Barriers in the Radioactive Waste Repository Case 7.47a

Dimitar Antonov
(Bulgaria)

Case Study on the Influence of Transpiration on the Ground Behaviour 7.48a

Behzad Fatahi
Buddhima Indraratna
Hadi Khabbaz
(Australia)

Construction of Motorway on Double Porosity Clay Fill 7.50a

Jan Najser
Jan Bohac
(Czech Republic)
Emma Pooley
Sarah Springman
Jan Laue
(Switzerland)

Underground Facilities in Loess 7.52a

Dimcho Evstatiev
Yordan Evlogiev
Mariana Nedelcheva
(Bulgaria)

Foundation Work of High TV Tower in Collapsible Loess 7.53a

Dimcho Evstatiev
Yordan Evlogiev
(Bulgaria)

Excavation for Underground Parking in Seville (Spain). Treatment with Reinforced Injections. 7.54a

Fernando da Casa Martín
F. Celis D'Amico
E. Echeverria Valiente
P. Chías Navarro
A. García Bodega
(Spain)

Some Interesting Results about Behaviour of Granular Media 7.55a

F. Di Credico
P. Signanini
P. Torrese
(Italy)

Artificial Ground Freezing in Geotechnical Engineering 7.56a

Dong K. Chang
Hugh S. Lacy
(USA)

Soil Improvement by Means of Electro-Osmosis 7.58a

Sven Hansbo
(Sweden)

Soft Ground Improved by Rigid Vertical Piles. Experimental and Numerical Study of Two Real Cases in France 7.59a

M. Nunez
D. Dias
R. Kastner
C. Poilpre
(France)

Evolution of Soil Desaturation by Air-injection Technique and Its Evaluation via Multiphase Flow Simulation 7.60a

Hide Yasuhara
Takamasa Morito
Yoshinori Kochi
Mitsu Okamura
(Japan)

Field Investigation on the Performance of Rammed Aggregate Pier in a Soft Ground of Bangladesh 7.66a

M. J. Hossain
M. Alamgir
M.A. Mahamud
(Bangladesh)

Utilisation of Waste Plastics in Flexible Pavement Construction Laid on Expansive Soil Subgrade 7.68a

D.S.V. Prasad
G.V.R. Prasada Raju

Jet Grouting for Mass Treatment to Support an Aggregate Stockpile Building over Very Soft Clays 7.69a

Ken Ivanetich
Lisheng Shao
(USA)

Advanced, Modern and Innovative Technologies Used at The Houston Airport System (Stabilized Subgrades and Stabilized Bases) 7.70a

Adil Godiwalla
(USA)

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"

Assessment of Groundwater Hazards in a Costal District of Gujarat, India 7.01b

Sanjay Das
Indra Prakash
(India)

Lessons Learned from Closing Three Major Landfills – The Devil Really is in the Details 7.03b

R. Jeffrey Dunn
(USA)

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

B.N. Moolchandani
(India)

Redevelopment of a Municipal Solid Waste Landfill: Engineering Design Challenges 7.10b

Derrick A. Shelton
David A. Schoenwolf
Nisha P. Mohanan
(USA)

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."

Case History of the Temporary Support of an 11-Story Historic Building in Downtown Washington, DC 8.01a

David Rothenberg
Mamoud Hosseini
(USA)

Mechanically Reinforced Earth for Steep Surcharge Slopes in Proximity of Adjacent Structures to Improve Compressible Soils 8.02a

Hiren J. Shah
Hugh S. Lacy
Matthew B. Van Rensler
(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

Cory Surber
Mamoud Hosseini
(USA)

Tied-Back Top-Down Wall to Support I-295 Ramp 8.04a

Eric M. Klein
Jennifer L. Trimble
Bibek B. Shrestha
(USA)

Foundations for Memorials and Monuments on the National Mall 8.05a

Douglas W. Christie
(USA)

New I-95 Woodrow Wilson Bridge Foundations 8.07a

Roderic A. Ellman, Jr.
(USA)

Excavation Support for the Newseum Development at 555 Pennsylvania Avenue in Washington, D.C., USA 8.09a

Victor Omelchenko
Mamoud Hosseini
(USA)

Temporary Support of Excavation System for 300 New Jersey Avenue 8.10a

Irvin Ragsdale
Keki Wadia
(USA)

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"

Need for Prior Geotechnical Engineering Studies for Foundation Design: Cases of Collapsed Buildings in Port Harcourt and Environs, Nigeria 8.01b

So-ngo Clifford Teme
O.D. Ngerebara
Essien Ubong
(Nigeria)

Geotechnical Risk Analysis of the Local Flood Control Project on the Kansas River in Topeka, Kansas 8.02b

Mary Perlea
Scott Loehr
(USA)

Two History Cases of Innovations 8.04b

E.T. Arshba
V.A. Barvashov
G.V. Vasyukov
(Russia)

Failure of Two High Embankments at Soft Soil Sites 8.06b

Debasis Roy
Raghvendra Singh
(India)

Evaluation of Damage to a Road and a Sports Complex on Expansive Clays 8.08b

M. B. Mgangira
P. Paige-Green
(South Africa)

Forensic on Construction Induced Failure of Pipe Pile Foundations 8.13b

Xiong (Bill) Yu
(USA)
Yuewen Huang
(China)

SESSION 8c

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

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

So-ngo Clifford Teme
Essien Ubong
(Nigeria)

Design and Behavior of Salgueiros Station for Porto Metro 8.04c

António Topa Gomes
António Silva Cardoso
Jorge Almeida e Sousa
(Portugal)
José Carlos Andrade
Carlos Augusto Campanhã
(Brazil)

Bond Strength of Hollow-Core Bar Micropiles 8.05c

Jésus E. Gómez
Carlos J. Rodriguez
Helen D. Robinson
Johanna Mikitka
Larry Keough
(USA)

Ancient Landslide Reactivation at the Viaduct No. 1 Located on the Caraca-La-Guaira Highway in Venezuela 8.08c

Luis Fargier-Gabaldon
Daniel A. Salcedo
Rosendo Camargo-Mora
(Venezuela)

Damage of Railway Sleepers under Dynamic Loads: A Case History from the Greek Railway Network 8.09c

Konstantinos Giannakos
(Greece)

Case Histories Back Analyses for the Application of the Observational Method under Eurocodes for the SCOUT Project 8.12c

Hoe-Chian Yeow
Ian Feltham
(United Kingdom)

Investigation on the Causes of Longitudinal Cracks on Prestressed Monoblock Railway Sleepers of Metric Gauge of the Greek Railway Network 8.13c

Spyros Tsoukantas
Konstantinos 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"

New BAUER Flydrill System Drilling Monopiles at Barrow Offshore Wind Farm, UK 9.01

Wolfgang G. Brunner
Manfred Beyer
(Germany)

Case Study of the Changi East Land Reclamation Project, Singapore 9.03

A. Arulrajah
(Australia)
M.W. Bo
(Canada)
H. Nikraz
(Australia)

Degradation of Axial Shaft Capacity of Piles in Soft Clay Due to Cyclic Loading 9.04

Paul Doherty
Kenneth Gavin
(Ireland)

Ice Protection Barrier Construction in Caspian Sea 9.07

Alp Gökalp
Rasin Düzceer
(Turkey)

Geotechnical Design of an Offshore Gravity Base Structure 9.08

Gareth Swift
(United Kingdom)

Case Histories Paper - Jackup Rig Spud Can Penetration: A 6,000 Ton Load Test 9.09

Francesco Mirabelli
Lorenzo Paoletti
Eric J. Parker
(Italy)

Construction of Mass Concrete Structure Utilizing Ground Settlement from Underpass Construction in the 2nd Phase Kansai International Airport Project 9.10

Masaru Fujimoto
Takechiho Tabata
Tsuyoshi Emura
Masato Nakamichi
(Japan)

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"

Cratering and Blowing Soil by Rocket Engines during Lunar Landings 10.01

Philip T. Metzger
John E. Lane
Christopher D. Immer
Sandra Clements
(USA)

Review of Lunar Regolith Properties for Design of Low Power Lunar Excavators 10.02

Leslie Gertsch
Jamal Rostami
Robert Gustafson
(USA)

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)?"

A Historical Perspective on Geotechnical Case Histories Courses (Distinguished Speaker)

J. David Rogers
(USA)

Streamlining Case Studies for Education 11.01a

Peter Scharle
(Hungary)

Geotechnical Failures: An Excellent Tool to Teach Geotechnical Engineering 11.02a

Sanjeev Kumar
(USA)

Monitoring Seismic and Geophysical Parameters with the help of College Instruments and Staff 11.03a

Arun Bapat
(India)

Case Histories in Geotechnical Engineering: Enhancing the Practice in an Interactive Learning Environment 11.04a

Waddah Akili
(USA)

*6th Case Histories Conference
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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

William D. Lawson
(USA)

Exploring Case Histories: Chocolatetown PA 11.07a

Matthew Mauldon
Kristin Brennan
(USA)

From Case Histories to Conceptual Models 11.10a

Liaqat Ali
Sarfraz Ali
(Pakistan)

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

Chavdar V. Kolev
(Bulgaria)

Case Histories Oriented Teaching of Geotechnical Engineering 11.12a

Sukhmander Singh
(USA)

Addressing the Geotechnical Case Histories of Beirut 11.13a

Jacques Harb
(Lebanon)

Benefits of Case Based Instruction in Undergraduate Geotechnical Education 11.14a

Declan Phillips
(Ireland)

Use of Case Histories to Enhance Practical Geotechnical Engineering 11.15a

K.S. Babu Narayan
B.M. Sunil
(India)

The Verdal and Rissa Landslides – Application of Case Histories in Education 11.17a

Maj Goril Baverfjord
Vikas Thakur
(Norway)

Educating Students through Understanding the Pathology of Geotechnical Projects 11.18a

Mohamed Djebbi
Mounir Bouassida
(Tunis)

Use of Case Histories in the Classroom 11.19a

Carsten H. Floess
(USA)

Josef Exploration Drift - From Exploration of Gold to Unique Facility for Geotechnical Research, Education and Training 11.20a

Jiri Slovak
Jiri Svoboda
Radek Vasicek
Pavla Bauerova
(Czech Republic)

Application Of Case Studies In Education Panel Presentation for Session 11, Friday, Aug 15 11.21a

Peter Scharle
(Hungary)

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."

A New International Database on Case Histories of Monitored Construction of Tunnels and Deep Excavations 11.02b

Fabrice Emeriault
Richard Kastner
Rodolphe Louis-Sidney
Elöd Egyed-Zsigmond
(France)

Implications of Swelling Clays on Asphalt Pavement Performance in Colorado 11.03b

Scott Shuler
(USA)

Incorporating Case Study and Site Visit for Teaching of Earth and Hydraulic Structures at Universiti Putra Malaysia 11.04b

Ahmed Mohammed Thamer
A.A. Aziz
B.B.K. Huat
(Malaysia)

Landslides in Balchik – the Biggest Nature Experiment for Shore Protection in Bulgaria 11.05b

Chavdar V. Kolev
(Bulgaria)

Use of Case Histories to Enhance Practical Geotechnical Engineering 11.06b

Liaqat Ali
Sarfraz Ali
(Pakistan)

Foundations of the Nation: The Hillbrow and Brixton Towers as Figurations of National Identity in South Africa 11.07b

Lizè Groenewald
Francis Legge
(South Africa)

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Geobrain: Dutch Feasibility Database for Installing Sheet Pile Walls 11.08b

A.R. Koelewijn
A.M.J. Mens
(Netherlands)

Using Experience and Case History Data to Enhance the Design of Piled Foundations and Predict Behaviour Characteristics 11.09b

David J. Baxter
Neil Dixon
Paul R. Fleming
Ken A. Cromwell
(United Kingdom)

Emerging Innovative Solutions Enhancing Practical Geotechnical Engineering 11.10b

Shubhada S. Jagtap
Annapurni Iyer
Minimol Korulla
(India)

Deterioration of Bored Cast In Situ Piles due to Aggressive Water 11.11b

V.T. Ganpule
S.Y. Mhaikar
(India)

Recent Experience on Design, Construction and Performance of CFRD Dams 11.14b

Camilo Marulanda Escobar
Alberto Marulanda Posada
(Colombia)