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International Conference on Case Histories in
Geotechnical Engineering

(1998) - Fourth International Conference on
Case Histories in Geotechnical Engineering

08 Mar 1998 - 15 Mar 1998

Conference Program

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Fourth International Conference on Case Histories in Geotechnical Engineering St. Louis, Missouri (USA) March 8-15, 1998

Conference Chairman
Shamsher Prakash
Professor of Civil Engineering
University of Missouri-Rolla
1870 Miner Circle
Rolla, Missouri 65409-0030 (USA)

CONFERENCE PROGRAM¹

February 25, 1998

Sunday, March 8, 1998

- 1:00 p.m. - 6:00 p.m. Registration (Mural Area II Floor)
- 3:00 p.m. - 6:00 p.m. Meetings - Organizing Committee (Pavilion Salon C)
- 6:00 p.m. Early Bird Reception (Pavilion East Foyer)

Monday, March 9, 1998

- 7:00 a.m. - 6:00 p.m. Registration (continued)
- 8:00 a.m. OPENING CEREMONIES (Pavilion Salons D - G)
Thomas Petry, Chairman, Civil Engineering Dept., UM-Rolla
Shamsher Prakash, Conference Chairman
Russell Harmon, Army Office of Research
John Mathes, Curator, UM System
Presentation SP RESEARCH AWARDS
- 8:30 a.m. KEYNOTE ADDRESS (Pavilion Salons D - G)
Chairman: John Mathes (USA)
CREATING CASE HISTORIES THE HARD WAY
Ralph B. Peck (USA)
- 9:30 a.m. SOA Lecture-II (Pavilion Salons D - G)
Chairman: Al Laffoon (USA)
Measurement and Analysis of Civil Engineering Vibrations
Professor Jean-Lou Chameau (USA)
- 10:30 a.m. Coffee Break - (Pavilion East & West Foyers)



Geotechnical Engineering
St. Louis 1998

an equal Opportunity institution
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¹Conference Venue is Pavilion Marriott, Downtown St. Louis(MO)
Tele:(314) 421-1776/1-800-228-9290 Fax: (314) 331-9020 Att: Reservations

- 11:00 a.m. SOA Lecture-III (Pavilion Salons D - G)
Chairman: Thomas L. Cooling (USA)
Failure due to Liquefaction and Remediation
Professor W. D. Liam Finn (Canada)
- 12:00 p.m. Lunch Break
- 1:00 p. m. SOA Lecture-IV (Pavilion Salons D - G)
Chairman: John Lowe III (USA)
Rigid and Flexible Retaining Walls During Kobe Earthquake
Dr. Susumu Iai (Japan)
- 2:00 p.m. SOA Lecture-V (Pavilion Salons D - G)
Chairman: Ron Sally (USA)
Risk and Reliability in Geotechnical Engineering
Dr. Suzanne LaCasse (Norway)
- 3:00 p.m. **OPENING OF POSTER SESSION AND EXHIBITION** (Pavilion Salons A & B)
- 3:30 p.m. Coffee Break - Visit Posters and Exhibits (Pavilion East & West Foyers, Pavilion Salons A & B)
- 4:00 p.m. SOA Lecture-VI (Pavilion Salons D - G)
Chairman: Mike Alizadeh (USA)
Remediation of Major Earth Dams
Dr. R. H. Ledbetter (USA)
- 5:00 p.m. SOA Lecture -VII (Pavilion Salons D - G)
Chairman: K. N. Murthy (USA)
Recent Experiences of Tunneling and Deep Excavations In London
Dr. Robert Mair (UK)
- 6:00 p.m. Reception (Pavilion Salon C)
- 8:00 p.m. - 10:00 p.m. Meetings of Technical Committees (Ft. San Carlos 1 & 2, Diplomat Rooms-First Floor)

Tuesday, March 10, 1998

- 7:00 a.m. - 5:00 p.m. Registration (continued)
- 8:00 a.m. SOA Lecture-IX (Pavilion Salons D - G)
Chairman: Bevc Lojze (Slovenia)
Past and Future of Landfill Engineering Through Case Studies
R. Kerry Rowe (Canada)
- 9:00 a.m. - 12:00 Noon **Session I** (Pavilion Salons D - G)
Case Histories of Foundations
Chairman: Roy E. Olson (USA)
Co-Chairman: A. Fadeev (Russia)
General Reporter: Alan J. Lutenegeger (USA)

Co-Reporters: Carole L. B. Mitchell (USA), Anders Bodare (Sweden),
Mohamad Hussein (USA)
Official Discussors: Mait Mets (Estonia), Gary Axelsson (Sweden),
Martin B. Hudson (USA), Houda Jadi (USA), U.N. Sinha (India)
9:00 - Opening Remarks - Chairman
9:10 - General Report
9:55 - Discussion
10:30 - Coffee Break
11:00 - Discussion and Replies by Authors
11:50 - Closing Remarks - Co-Chairman

12:00 Noon Lunch Break - Visit Posters and Exhibits (Pavilion Salons A & B, Pavilion East Foyer)

1:30 p.m. SOA Lecture- X (Pavilion Salons D - G)
Chairman: Michael O'Neill (USA)
State of the Art of Soil Improvement with Case Histories
Dr. Joseph P. Welsh (USA)

2:30 p.m - 5:30 p.m. **Session II** (Pavilion Salons D - G)
CONCURRENT SESSIONS II and VII
Case Histories of Slopes, Dams and Embankments
Chairman: William F. Marcusson (USA)
Co-Chairman: David Kerkes (USA)
General Reporter: Vlad Perlea (USA)
Co-Reporters: Mary P. Perlea (USA), Bujang B.K. Huat (Malaysia)
Official Discussors: Brent Carter (USA), Farag Saad (USA)
VII- Case Histories of Soil Improvement, Grouting, Geosynthetics, Dynamic Compaction (Pavilion Salon C)
Chairman: Ilan Juran (USA)
Co-Chairman: Cameran Mirza (Canada)
General Reporter: Steven J. Winter (USA)
Co-Reporters: Col. (Dr.) Shari Pal (India), John Tehaney (USA)
Official Discussors: Sujji Somasundaram (USA), John Conway (USA), X. Bai (China)
2:30 - Opening Remarks - Chairman
2:40 - General Report
3:10 - Discussions
3:30 - Coffee Break
4:00 - Discussion and Replies by Authors
5.20 - Closing Remarks - Co-Chairman

5:30 p.m. - 6:30 p.m. Visit Posters and Exhibits (Pavilion Salons A & B, Pavilion East Foyer)

Wednesday, March 11, 1998

7:00 a.m. - 5:00 p.m. Registration (continued)

8:00 a.m. SOA Lecture VIII (Pavilion Salons D - G)
Chairman: Shiego Kanwo (Japan)
Foundation Damage of Structures in Kobe Earthquake and Remediation
Professor Tamotsu Matsui (Japan)

- 9:00 a.m. SPL-I (Pavilion Salons D - G)
Chairman: Braja M. Das (USA)
Design and Performance of the World's Tallest Building, Petronas Tower
Mr. Clyde N. Baker (USA)
- 9:30 a.m. - 10:00 a.m. SPL-IV (Pavilion Salons D - G)
Chairman: Jim Murray (USA)
A Recent Difficult Foundation Problem: The Case of the New Teja Bridge
Dr. Pedro Simao Seco e Pinto (Portugal)
- 10:00 a.m. Coffee Break - (Pavilion East & West Foyers)
- 10:30 a.m - 12:30 p.m.. **CONCURRENT SESSIONS V and VIII**
V-Case Histories of Retaining Structures and Deep Excavations (Pavilion Salons D-G)
Chairman: Jean-Claude Blivet (France)
Co-Chairman: Shiming Wu (China)
General Reporter: Raj Sidharthan (USA)
Co-Reporter: E. Arni Rafnsson (Iceland)
Official Discussors: J.K. Jain (India), Alex Wu (USA)
VIII-Case Histories of Forensic Engineering "Where Things Went Wrong"
(Pavilion Salon C)
Chairman:
Co-Chairman: Eun Chul Shin (Korea)
General Reporter: R. W. Stephenson (USA)
Co-Reporter: Wayne Ericson (USA)
10:30: Opening Remarks - Chairman
10:40: General Report
11:20: Discussions and Replies by Authors
12:20: Closing Remarks - Co-Chairman
- 12:30 p.m. Lunch Break - Visit Posters and Exhibits (Pavilion Salons A & B Pavilion East Foyer)
- 1:30 p.m. - 4:00 p.m. **SESSIONS III and IV** (Pavilion Salons D - G)
Session III
Case Histories of Geotechnical Earthquake Engineering
Session IV
Case Histories of Engineering Vibrations
Chairman: Richard D. Woods (USA)
Co-Chairman III: Masayuki Hyodo (Japan)
Co-Chairman IV: Tsuboi Hideo (Japan)
General Reporter III: Ahmed W. Elgamal (USA)
General Reporter IV: George M. S. Manyando (USA)
Co-Reporters: Marshall Lew (USA), Sanjeev Kumar (USA)
Official Discussors: Masayuki Hyodo (Japan), Tomoya Iwashita (Japan), Toni Guo (USA)
1:30 - Opening Remarks - Chairman
1:35 - General Report III
2:05 - General Report IV
2:30 - Discussions and Replies by Authors
3:50 - Closing remarks - Co-Chairman III
3:55 - Closing remarks - Co-Chairman IV
- 4:00 p.m. Coffee Break - Visit Posters and Exhibits (Pavilion Salons A & B, Pavilion East Foyer)

4:30 p.m. - 6:30 p.m.

SESSION VI**VI- Case Histories of Geological, Rock and Mining Engineering including Underground Structures and Excavations (Pavilion D - G)**

Chairman: Russell Harmon (USA)

Co-Chairman: J. C. Chern (Taiwan)

General Reporter: Christopher G. Mueller (USA)

Co-Reporters: Boashan Huang (USA), Michael Kavvadas (Greece)

4:30 - Opening Remarks - Chairman

4:40 - General Report

5:00 - Discussion and replies by Authors

6:20 - Closing Remarks - Co-Chairman

Thursday, March 12, 1998

7:00 a.m. - 5:30 p.m.

Registration (continued)

8:00 a.m.

SOA-XI (Pavilion Salons D - G)

Chairman: Mait Mets (Estonia)

O-Cell Testing Case Histories Demonstrate the Importance of Bored Pile (Drilled Shaft) Construction Technique

John H. Schmertmann (USA)

9:00 a.m.

SPL Lecture-5 (Pavilion Salons D - G)

Chairman: Wanchai Teparaksa (Thailand)

Case History of Earthquake Design of a Tall Retaining Structure

Dr. R. S. Steedman (UK)

9:30 a.m.

SPL Lecture- 2 (Pavilion Salons D - G)

Chairman: Tomotsui Matsui (Japan)

Trans-Tokyo Bay Tunnel Project

Dr. Makoto Kanai (Japan)

10:00 a.m.

Coffee Break - (Pavilion East & West Foyers)

10:30 a.m. - 12:00 Noon

SESSION IX and XI (Pavilion Salons D - G)**IX- Case Histories of New Solutions to Traditional Geotechnical Problems****XI - Case Histories of Non-Destructive Evaluation of Drilled Shafts, Auger Cast Piles and Driven Piles**

Chairman: Donald G. Anderson (USA)

Co-Chairman: Takaharu Shogaki (Japan)

General Reporter: Vijay K. Puri (USA)

Co-Reporters: John M. Benson (USA), Tom Blackburn (USA)

Official Discussors: Tony DiPiero (USA), Lence S. Timiovska (Macedonia)

10:30 - Opening Remarks - Chairman

10:40 - General Report

11:00 - Discussions and Replies by Authors

11:55 - Closing Remarks -Co-Chairman

12:00 Noon

Lunch Break

- 1:00 p.m. - 2:30 p.m. **SESSION X** (Pavilion Salons D - G)
Case Histories of Geotechnical and Hydrological Management and Remediation of Solid, Hazardous and Low-Level Radioactive Wastes, including Liner Cover Systems
Chairman: Tom Zimmie (USA)
Co-Chairman:
General Reporter: Carsten H. Floess (USA)
Co-Reporters: Mary Lamie (USA), Wayne R. Bergstrom (USA), William J. Hague (USA)
Official Discussor: Yu Sheng (Australia)
1:00 - Opening Remarks- Chairman
1:10 - General Report
1:35 - Discussions and Replies by Authors
2:25 - Closing Remarks - Co-Chairman
- 2:30 p.m. - 4:00 p.m. **SESSION XII** (Pavilion Salons D - G)
Geotechnical Engineering Practice in the Twenty First Century
Chairman: Tom Petry (USA)
Speakers: Scott Steedman (England)
John Lowe (USA)
Mait Mets (Estonia)
John Schmertmann (USA)
Claude Blivet (France)
Susumu Iai (Japan)
Ron Salley (USA)
J. C. Chern (Taiwan)
Eun Chul Shin (Korea)
Sonia Shahnaj (Bangladesh)
Clyde Baker (USA)
W.D. Liam Finn (Canada)
2:30 p.m. - Chairman's Remarks
2:40 p.m. - Presentations by Speakers
3:30 p.m. - Discussions from Floor
3:50 p.m. - Remarks by Professor Peck
4:00 p.m. - Closing Remarks - Chairman
- 4:00 p.m. Coffee Break (Pavilion East & West Foyers)
- 4:30 p.m. - 5:30 p.m. Closing Session (Pavilion Salons D - G)
Chairman: Shamsheer Prakash
Floor Presentations
Resolutions
- 6:00 p.m. Cash Bar (Pavilion East Foyer)
- 7:00 p.m. Banquet (Pavilion Salons A - C)
- 11:00 p.m. Conference Closes

Friday, March 13, 1998

- 8:00 a.m. Post Conference Tour Starts

Sunday, March 15, 1998

- 3:00 p.m. Post Conference Tour Returns to St. Louis Airport/Conference Hotel