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International Conference on Case Histories in Geotechnical Engineering (1993) - Third International Conference on Case Histories in Geotechnical Engineering

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31 May 1993 - 06 Jun 1993

## Conference Schedule

Multiple Participants

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**THIRD INTERNATIONAL CONFERENCE ON CASE HISTORIES  
IN GEOTECHNICAL ENGINEERING  
St. Louis, Missouri, USA  
June 1-6, 1993**

**CONFERENCE SCHEDULE**

<b>Monday, May 31, 1993</b>		11:00 am	<b>SPECIAL LECTURE SESSION 4</b>
1:00 pm - 6:00 pm	<b>REGISTRATION</b>		Chairman: Mehmet T. Tumey (USA)
3:00 pm - 6:00 pm	Meetings - Organizing Committee Other Committees		<b>"Case Studies of Soil Structure Interaction"</b> I. K. Lee (Australia)
6:00 pm - 8:00 pm	Early Bird Reception		
<b>Tuesday, June 1, 1993</b>		12:00 pm	Lunch Break, Visit Posters and Exhibits
7:00 am - 6:00 pm	<b>REGISTRATION</b>	1:30 pm	<b>SPECIAL LECTURE SESSION 7</b>
8:00 am	<b>OPENING CEREMONIES</b> Joseph E. Minor, Chairman Civil Engineering Department University of Missouri-Rolla		Chairman: Samual Frydman (Israel)  <b>"Design and Observation of Steep Reinforced Embankments"</b> T. Yamanouchi (Japan)
	Shamsher Prakash Conference Chairman	2:30 pm	<b>SPECIAL LECTURE SESSION 9</b>
	Mehmet T. Tumay National Science Foundation		Chairman: K. N. Murthy (USA)  <b>"Man-Made Vibrations and Solutions"</b> K. Rainer Massarsch (Sweden)
	James K. Mitchell International Society of Soil Mechanics and Foundation Engineering	3:00 pm	Coffee Break, Visit Posters and Exhibits
8:30 am	<b>KEYNOTE ADDRESS</b>  Chairman: Shamsher Prakash (USA)  <b>"An Appraisal of Case Histories in Geotechnical Engineering"</b> Ralph B. Peck (USA)	4:00 pm	<b>SPECIAL LECTURE SESSION 6</b>  Chairman: Richard J. Finno (USA)  <b>"Practical Studies of the Seismic Response of a Rockfill and Tailings Dam Impoundment"</b> W. D. Liam Finn (Canada)
9:30 am	<b>SPECIAL LECTURE SESSION 3</b>  Chairman: Joseph P. Welsh	6:00 pm	<b>RECEPTION</b>
	<b>"Leaning Tower of Pisa"</b> M. Jamiolkowski (Italy)	8:00 pm - 10:00 pm	Meetings of Technical Committees
10:30 am-11:00 am	Coffee Break, Visit Posters and Exhibits		

Wednesday, June 2, 1993

7:00 am - 5:00 pm

**REGISTRATION**

8:00 am

**SPECIAL LECTURE SESSION 8**

Chairman:

**"The Kettleman Hills Landfill Failure:  
A Retrospective View of the Failure  
Investigations and Lessons Learned"**  
James K. Mitchell (USA)

5:00 pm

2:30 - Opening Remarks - Chairman  
2:40 - General Report  
3:10 - Discussion  
3:30 - Coffee Break  
4:00 - Discussion and Replies by Authors  
4:50 - Closing Remarks - Co-Chairman

6:30 pm - 10:00 pm

**SESSION XIV - GEOTECHNICAL  
ASPECTS OF RECENT EARTHQUAKE**

Chairman: Kinji Akino (Japan)  
Co-Chairman: J. David Frost (USA)  
General Reporter: Ahmed Elgamal (USA)  
Co-Reporters: Gregory L. Hempen (USA)  
Anders Bodare (Sweden)

9:00 am - 12:00 pm

**SESSION I - CASE HISTORIES OF  
FOUNDATIONS**

Chairman: E. H. deLeeuw (Netherlands)  
Co-Chairman:  
General Reporter: Roy E. Olson (USA)  
Co-Reporters: R. J. Jardine, (UK),  
Yudbhir (India), James H. Long (USA)

**INVITED LECTURES**

6:30 - "Ground Motion Attenuation and  
Amplification During Recent Earth-  
quakes" 14.01  
I. M. Idriss (USA)  
6:50 - "Soil Response During the  
1988 Armenian Earthquake" 14.03  
M. K. Yegian (USA)  
7:10 - "Geotechnical Studies and Damage  
During Manjil Earthquake, Iran" 14.02  
Kenji Ishihara (Japan)  
8:10 - Coffee Break  
8:30 - Opening Remarks - Chairman  
8:30 - General Report  
8:50 - Discussion and Replies by Authors  
9:50 - Closing Remarks - Co-Chairman

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 pm

Lunch Break, Visit Posters and Exhibits

1:30 pm

**SPECIAL LECTURE SESSION 1**

Chairman: John Lowe (USA)

**"Negative Skin Friction in Piles  
and Design Decisions"**  
M. T. Davisson (USA)

Thursday, June 3, 1993

8:00 am

**SPECIAL LECTURE SESSION 11**

Chairman: Roy Olsen (USA)

**"Lessons Learned from Field Performanc  
of Hazard Waste Containment Units"**  
David Daniel (USA)

9:00 am

**SPECIAL LECTURE SESSION 2**

Chairman: Panos Dakoulas (USA)

**"Seismic Response of Bridge Pile  
Foundations"**  
George Gazetas (Greece)

10:00 am

Coffee Break

30 pm

**CONCURRENT SESSIONS II AND VII**

**SESSION II - CASE HISTORIES OF  
SLOPES, DAMS AND EMBANKMENTS**

Chairman: Jorge H. Troncoso (Chile)  
Co-Chairman: Pedro Simao Seco e Pinto  
(Portugal)  
General Reporter: Les Harder (USA)  
Co-Reporters: Vlad G. Perlea (USA),  
Nario Yasuda (Japan)

**SESSION VII - CASE HISTORIES OF  
SOIL IMPROVEMENT, GROUTING,  
GEOSYNTHETICS, DYNAMIC  
COMPACTION, VIBROFLOTATION,  
BLASTING AND OTHER METHODS**

Chairman: Ilan Juran (USA)  
Co-Chairman: H. Ochiai (Japan)  
General Reporter: Don Anderson (USA)  
Co-Reporters: B. G. Rao (India), Sasumu  
Yasuda (Japan), Richard Jewell (Belgium)

10:30 am	<b>CONCURRENT SESSIONS V and VIII-IX</b>	4:00 pm	Coffee Break, Visit Posters and Exhibits
	<b>SESSION V - CASE HISTORIES OF RETAINING STRUCTURES AND DEEP EXCAVATIONS</b>	4:30 pm	<b>CONCURRENT SESSIONS IV and VI</b>
	Chairman: R. H. G. Parry (UK) Co-Chairman: M. I. Esrig (USA) General Reporters: John T. Christian (USA), Cetin Soydemir (USA) Co-Reporter: A. J. Lutenegeger (USA)		<b>SESSION IV - CASE HISTORIES OF MAN-MADE VIBRATIONS</b>
	<b>SESSION VIII - CASE HISTORIES OF FORENSIC ENGINEERING "WHERE THINGS WENT WRONG"</b>		Chairman: M. A. Pecker (France) Co-Chairman: General Reporter: Vijay K. Puri (USA) Co-Reporter: James P. Lee (USA)
	<b>SESSION IX - CASE HISTORIES OF GEO-ECONOMY; ADEQUATE GEOTECHNICAL SOLUTION</b>		<b>SESSION VI - CASE HISTORIES OF GEOLOGICAL ENGINEERING AND ROCK ENGINEERING</b>
	Chairman: Nicholas Kumpaley (Ghana) Co-Chairman: T. Amirsoleymani (Iran) General Reporters: Allen Hathaway (USA), Tim Bedenis (USA) Co-Reporter: Larry P. Jedele (USA)		Chairman: Roy E. Hunt (USA) Co-Chairman: General Reporter: Charles Haas (USA)
	10:30 - Opening Remarks - Chairman 10:40 - General Report 11:20 - Discussion and Replies by Authors 12:20 - Closing Remarks - Co-Chairman	6:00 pm	4:30 - Opening Remarks - Chairman 4:40 - General Report 5:00 - Discussion and Replies by Authors 5:20 - Closing Remarks - Co-Chairman
		7:00 pm	Cash Bar
			<b>BANQUET</b>
			<b>Friday, June 4, 1993</b>
12:30 pm	Lunch Break, Visit Posters and Exhibits	8:00 am	<b>SESSION XIII - CASE HISTORIES OF NEW SOLUTIONS TO TRADITIONAL GEOTECHNICAL PROBLEMS</b>
2:00 pm	<b>CONCURRENT SESSIONS III, X-XI, XII</b>		Chairman: R. S. Steedman (UK) Co-Chairman: General Reporter: Bruce Kutter (USA) Co-Reporter: Ross Boulanger (USA)
	<b>SESSION III - CASE HISTORIES OF GEOTECHNICAL EARTHQUAKE ENGINEERING</b>		8:00 - Opening Remarks - Chairman 8:10 - General Report 8:30 - Discussion and Replies by Authors 9:40 - Closing Remarks - Co-Chairman
	Chairman: Ricardo Dobry (USA) Co-Chairman: Panos Dakoulas (USA) General Reporter: Steve Kramer (USA) Co-Reporter: P. K. Robertson (Canada)	10:00 am	Coffee Break
	<b>SESSIONS X-XI - CASE HISTORIES OF GEOTECHNICAL AND HYDROLOGICAL MANAGEMENT AND REMEDIATION OF SOLID, HAZARDOUS AND LOW-LEVEL RADIOACTIVE WASTES</b>	10:30 am	<b>CLOSING SESSION</b>
	<b>SESSION XII - CASE HISTORIES OF LINER AND FINAL COVER SYSTEMS FOR SOLID, HAZARDOUS AND LOW-LEVEL RADIOACTIVE WASTES</b>	12:00 pm	Conference Chairman: Shamsheer Prakash Discussion Closing Remarks Resolutions
	Chairman: Co-Chairman: Shiming Wu (China) General Reporter: Hari D. Sharma (USA)	1:30 pm	Conference Adjourns
	2:00 - Opening Remarks - Chairman 2:10 - General Report 2:30 - Discussion and Replies by Authors 3:50 - Closing Remarks		Tour Leaves for New Madrid Fault
			<b>Sunday, June 6, 1993</b>
		5:00 pm	Tour Returns to St. Louis International Airport

## WELCOME AND OPENING REMARKS

Shamsher Prakash  
Conference Chairman  
Professor of Civil Engineering  
University of Missouri-Rolla

It is my great pleasure to welcome you to this historic city of St. Louis, Missouri, to no less a historic event, the Third International Conference on Case Histories in Geotechnical Engineering.

In response to our Call for Papers, 327 abstracts were contributed from 35 countries, making this conference a truly international one, including: Australia, Austria, Brazil, Bulgaria, Canada, China, Croatia, Denmark, Egypt, France, Germany, Ghana, Greece, Hong Kong, India, Indonesia, Iraq, Ireland, Israel, Italy, Japan, Jordan, Korea, Mexico, Netherlands, New Zealand, Nigeria, Norway, Pakistan, Panama, Peru, Portugal, Puerto Rico, Romania, Saudi Arabia, Singapore, South Africa, Sri Lanka, Sweden, Taiwan, Turkey, United Kingdom, United States, Russia, and Vietnam. The large number of abstracts received were reviewed by a panel of 15 international experts. The full length papers were also reviewed.

In planning this event, we needed financial and moral support. It has been organized in cooperation with the International Society of Soil Mechanics and Foundation Engineering, International Association of Earthquake Engineering and eight other organizations. The National Science Foundation has co-sponsored and partially funded the conference. We are extremely grateful to all of our co-sponsors.

The delegates have travelled long distances at some discomfort to them to participate in this conference. There are many places to relax around here after the conference meetings in the evening. I strongly recommend you explore some of these places on your own.

The weatherman has assured us that we should look forward to beautiful weather during the week and I am confident that you will take home sweet memories of this city and the conference with you.

I would like to take this opportunity to thank the authors who contributed to this conference and State-of-the-Art speakers. The members of the Steering and Organizing Committees guided me in steering this conference. My colleagues at UMR came to my help whenever I needed it. I am extremely thankful to Dr. Joseph E. Minor, Chairman of the Department of Civil Engineering for his moral and other tangible support in times of crisis. Dr. Mehmet T. Tumay, Director of the National Science Foundation and Professor James K. Mitchell, Vice President of the ISSMFE and Dr. Minor are with us this morning to welcome the participants.

We have a very heavy technical agenda of State-of-the-Art presentations, main sessions and post sessions. We have planned two socials for your relaxation. I believe you will enjoy your stay with us and I extend you our welcome again.

## OPENING REMARKS

Dr. Mehmet T. Tumay  
Program Director, Geomechanical,  
Geotechnical and Environmental Systems Program  
Division of Civil and Mechanical Systems  
Directorate for Engineering  
National Science Foundation

On behalf of the U.S. National Science Foundation, I would like to take this opportunity to welcome you all to the Third International Conference of Case Histories in Geotechnical Engineering. As the impressive national and international attendance list of the participants clearly indicates, the general theme of the conference and topics that will be discussed during the next few days are of global interest. The members of the organizing and steering committees are to be congratulated for their unselfish efforts toward the meticulous planning, flawless organization, and excellent conduct of the technical sessions. Undoubtedly, one of the lasting contributions of this conference will be the proceedings. All the hard work of the contributors, editors, reviewers, and the publisher is gratefully acknowledged. Above all, I want to specially recognize Dr. Shamsher Prakash who has spearheaded and effectively chaired this conference. His present and past endeavors in producing these technology transfer conference proceedings, which undoubtedly will take their place among valuable archival technical publications, is greatly appreciated.

The Geomechanical, Geotechnical and Geo-Environmental Systems (G3S) Program in the Directorate for Engineering of the National Science Foundation is pleased to be one of the major sponsors of this conference. The G3S Program emphasizes fundamental and innovative research to improve the state of the art of analytical, computational, and experimental geo-systems. The program encourages the transfer of knowledge, data, and information from the research stage to use by designers and the industry. Research aimed at increasing the basic understanding of the behavior of geo-materials in ambient, arctic, subterranean, offshore, hazardous and extra-terrestrial environments is encouraged. The results should contribute, in the long term, to improving basic concepts in geomechanics, and the behavior of natural and man-made geo-composite material, assessment and remediation of hazards involved in geo-environmental waste management, manufacture and stability of geo-structures (including underground space), computer aided geo-technology, and knowledge-based data management.

Currently the geomechanics research in the U.S. does not have a well-established impact on the practitioners or the related construction industries in the geotechnical community. Unless the lines of communication are opened and innovative research results find their way into the industrial pipeline, the technological base in the U.S. is going to fall behind foreign competition (mainly France, Japan, Italy).

## Goals

- To promote integrated multi-disciplinary research into properties, structure and composition, synthesis/processing/improvement, and performance/quality (and the strong relationship among them) of geo-materials.

- To stimulate research and development in multi-phase groundwater flow, contaminant transport/interactions in geo-materials, and enhance research awareness in environmental geotechnology.
- To bring into focus the need for implementing intelligent control system concepts for characterization, data acquisition/reduction, performance/quality evaluation, and engineering analysis/design/construction for the multi-faceted geo-systems of the 21st century.

## Implementation

- Initiate technology transfer by means of short courses, conferences and use of collaborative resources and facilities of academia, industry and federal agencies to implement and verify research methodologies.
- Increase cross- and multi-disciplinary research and the transfer of research results to the private sector through the support of research groups and centers.
- Convene workshops where national and international academic and industrial experts can identify and discuss specific research needs in their area.
- Promote researcher exchange with foreign needs in their area.
- Through effective research management, improve quality of engineering education, increase number of women, under-represented minorities, and disabled persons in the engineering profession, and expand the emphasis on engineering design, synthesis and experimentation.
- Encourage scholarly activities of the grantees (i.e. grantee meetings/presentations, publications, internships in industry).
- Support high-risk, high-payoff innovative research through Small Grants for Exploratory Research (SGER).
- Encourage productive young researchers through Presidential Faculty Fellowships (PFF), and National Science Foundation Young Investigator (NYI) awards.
- Familiarize legislators and administrators with research needs in geotechnology, and publicize positive aspects and economic impact of successfully completed research projects.
- Issue program announcements and initiatives of multi- and cross-disciplinary nature.