



International Conferences on Recent Advances
in Geotechnical Earthquake Engineering and
Soil Dynamics

1991 - Second International Conference on
Recent Advances in Geotechnical Earthquake
Engineering & Soil Dynamics

10 Mar 1991, 1:00 pm - 17 Mar 1991, 3:00 pm

Conference Schedule

Multiple Authors

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**SECOND INTERNATIONAL CONFERENCE ON
RECENT ADVANCES IN GEOTECHNICAL EARTHQUAKE
ENGINEERING AND SOIL DYNAMICS
ST. LOUIS, (MO) USA
MARCH 11-15, 1991**

CONFERENCE SCHEDULE

SUNDAY, MARCH 11, 1991		12:00pm-1:30pm	LUNCH BREAK
1:00pm - 10:00pm	REGISTRATION	1:30 - 2:30	SPL 4 CHAIRMAN: Minh Phong Luong, Ecole Polytechnique, France
3:00	ORGANIZING COMMITTEE MEETING		
5:00	RECEPTION (early arrivals)		CENTRIFUGE MODELING FOR DYNAMIC STUDIES R. S. Steedman, Cambridge University, United Kingdom
MONDAY, March 11, 1991			
8:00am-3:00pm	REGISTRATION	2:30 - 3:30	SPL 5 CHAIRMAN: Tadahiko Shiomi, Japan
8:30 - 9:30	OPENING CEREMONIES		
8:30 - 8:45	Joseph E. Minor, Chairman, Civil Engineering Dept., UMR		FLOW FAILURE OF LIQUEFIED SAND IN LARGE SCALE SHAKING TABLE Kenji Ishihara, University of Tokyo
8:45 - 8:50	Shamsher Prakash, Conference Chairman		
8:50 - 9:00	Kenji Ishihara, International Society of Soil Mechanics and Foundation Engineering	3:30 - 4:00	COFFEE BREAK
		4:00 - 5:00	SPL 2 CHAIRMAN: Jean H. Prevost, Princeton University
9:10 - 9:15	Ian M. Buckle, Deputy Director, National Center for Earthquake Engineering Research, Buffalo (NY)		CONSTITUTIVE MODELLING OF SOILS AND COMPUTATION OF EARTHQUAKE DAMAGE AND LIQUEFACTION O. C. Zienkiewicz, University of Wales
9:15 - 9:20	David Stewart, Director, Center for Earthquake Studies, SMSU		
9:20 - 9:30	ANNOUNCEMENTS	5:00 - 6:00	OPENING OF EXHIBITION OPENING OF POSTER SESSION
9:30 - 10:30	STATE OF THE ART SPECIAL LECTURE SESSIONS (SPL) SPL 1 CHAIRMAN: F.E. Richart, University of Michigan FIELD AND LABORATORY DETERMINATION OF DYNAMIC SOIL PROPERTIES R. D. Woods, University of Michigan	6:00 - 8:00	RECEPTION
		TUESDAY, March 12, 1991	
		8:00am-3:00pm	REGISTRATION
		8:00 - 9:00	SPL 6 CHAIRMAN: Thomas F. Zimmie, Rennesselaer Polytechnic Institute
			SEISMIC DESIGN OF EARTH RETAINING STRUCTURES - R.V. Whitman, Massachusetts Institute of Technology
10:30 - 11:00	COFFEE BREAK		
10:30 - 12:00	SPOUSES PROGRAM		
11:00 - 12:00pm	SPL 3 CHAIRMAN: R. W. Stephenson, University of Missouri-Rolla	9:00 - 10:00	SPL 7 CHAIRMAN: M. Celebi, U. S. Geological Survey
			SEISMIC SOIL AMPLIFICATION IN THE PRESENCE OF GEOLOGIC AND TOPOGRAPHIC IRREGULARITIES Politecnico Di Milano

10:00 - 10:30	COFFEE BREAK			CO-CHAIRMAN: Ludwig Figuerora, Case Western Reserve University
10:30 - 4:00pm	SPOUSES PROGRAM			GENERAL REPORTER: Peter M. Byrne, University of British Columbia
10:30 - 12:00	SESSION IA AND IVA (SIMULTANEOUS)			OPENING REMARKS: Chairman
	IA. STATIC AND DYNAMIC ENGINEERING SOIL PARAMETERS AND CONSTITUTIVE RELATIONS OF SOILS	1:30 - 1:35		DISCUSSION AND REPLIES
	CHAIRMAN: I. K. Lee, University of New South Wales, Australia	1:35 - 2:25		CLOSING REMARKS: CO-CHAIRMAN
	CO-CHAIRMAN: M. Pastor, Spain	2:25 - 2:30		IVB.
	GENERAL REPORTER: Peter M. Byrne, University of British Columbia			CHAIRMAN: Cetin Soydmir H.P. Aldrich & Associates Boston
10:30 - 10:35	OPENING REMARKS CHAIRMAN			CO-CHAIRMAN: Rajsidharthartan, University of Nevada, Reno
10:35 - 10:55	GENERAL REPORT			GENERAL REPORTER: R. Richards, State University of New York at Buffalo
10:55 - 11:55	DISCUSSION AND REPLIES			SESSIONS IIA AND VIIIA (SIMULTANEOUS)
11:55 - 12:00	CLOSING REMARKS CO-CHAIRMAN	2:30 - 3:30		IIA. MODEL TESTING IN CYCLIC LOADING
	IVA. DYNAMIC EARTH PRESSURES AND SEISMIC DESIGN OF EARTH RETAINING STRUCTURES			CHAIRMAN: Vince Drnevich, University of Kentucky
	CHAIRMAN: Cetin Soydmir H.P. Aldrich & Associates Boston			CO-CHAIRMAN: C. K. Shen, University of California at Davis
	CO-CHAIRMAN: Rajsidharthartan University of Nevada			GENERAL REPORTER: Mladen Vucetic, University of California at Los Angeles
	GENERAL REPORTER: R. Richards, Jr., State University of New York, Buffalo	2:30 - 2:35		OPENING REMARKS: CHAIRMAN
		2:35 - 3:00		GENERAL REPORT
		3:00 - 3:25		DISCUSSION AND REPLIES
10:30 - 10:35	OPENING REMARKS CHAIRMAN	3:25 - 3:30		CLOSING REMARKS: CO-CHAIRMAN
10:35 - 10:55	GENERAL REPORT			VIIIA. SOIL AMPLIFICATION DURING EARTHQUAKES AND MICROZONATION
10:55 - 11:55	DISCUSSION AND REPLIES			CHAIRMAN: Ricardo Dobry, Rensselaer Polytechnic Institute
11:55 - 12:00	CLOSING REMARKS CO-CHAIRMAN			CO-CHAIRMAN:
12:00 - 1:30pm	LUNCH BREAK, VISIT EXHIBITION AND POSTER SESSION			GENERAL REPORTER: J. Carl Stepp, EPRI
1:30 - 2:30	SESSIONS IB AND IVB (SIMULTANEOUS)			OPENING REMARKS :CHAIRMAN
	IB:	2:30 - 2:35		GENERAL REPORT
	CHAIRMAN: Clyde N. Baker, STS Consultants, Chicago	2:35 - 3:00		DISCUSSION AND REPLIES
		3:00 - 3:25		

3:25 - 3:30	CLOSING REMARKS: CO-CHAIRMAN	10:00 - 10:30	COFFEE BREAK
3:30 - 4:00	COFFEE BREAK	10:30 - 4:00	SPOUSES PROGRAM
4:00 - 5:00	SESSIONS IIB AND VIIIB (SIMULTANEOUS)	10:30 - 11:30	SPL 9 - CHAIRMAN: Mehmet T. Tumay, National Science Foundation
	IIB.		CLASSIFICATION OF ANALYSIS METHODS FOR DYNAMIC SOIL-STRUCTURE INTER-ACTION John P. Wolf, Swiss Federal Institute of Technology, Switzerland
	CHAIRMAN: M.K. Yegian Northeastern University		
	CO-CHAIRMAN: Hari D. Sharma Emcon Assoc., San Jose, (CA)	11:30am - 12:00pm	SPL 15 INVITED TALK
	GENERAL REPORTER: Mladen Vucetic, University of California at Los Angeles		CHAIRMAN: Felix Yokel NIST, Gaithers Burg (MD)
4:00 - 4:05	OPENING REMARKS: CHAIRMAN		LEARNING FROM THE LARGE SCALE LOTUNG SOIL STRUCTURE INTERACTION EXPERIMENTS A. H. Hadjian - Bechtel Corporation, Norwalk (CA)
4:05 - 4:55	DISCUSSION AND REPLIES		
4:55 - 5:00	CLOSING REMARKS: CO-CHAIRMAN		
	VIIIB.	12:00 - 12:30	LP 4 INVITED TALK
	CHAIRMAN: Ricardo Dobry		CHAIRMAN: W.R. Stephenson, New Zealand
	CO-CHAIRMAN:		LIFELINE AND GEOTECHNICAL ASPECTS OF THE LOMA PRIETA EARTHQUAKE Thomas D. O'Rourke, Cornell University
	GENERAL REPORTER: J. Carl Stepp, EPRI		
4:00 - 4:05	OPENING REMARKS: CHAIRMAN	12:30 - 1:30	LUNCH BREAK - VISIT EXHIBITION AND POSTER SESSIONS
4:05 - 4:55	DISCUSSION AND REPLIES		
4:55 - 5:00	CLOSING REMARKS: CO-CHAIRMAN	1:30 - 3:30	SESSIONS V AND XI (SIMULTANEOUS)
5:00 - 6:00	VISIT EXHIBITION AND POSTER SESSION		V. SOIL STRUCTURE INTERACTION UNDER DYNAMIC LOADING
6:00	FREE EVENING		CHAIRMAN- Phillip L. Gould, Washington University
WEDNESDAY, March 13, 1991			
8:00am-3:00pm	REGISTRATION		CO-CHAIRMAN - E. Kausel GENERAL REPORTER - E. Kausel, Massachusetts Institute of Technology
8:00 - 9:00	SPL 8 CHAIRMAN: Susumu Yasuda, Japan		CO-REPORTERS: - Jose Roesset, University of Texas at Austin
	GEOTECHNICAL LESSONS LEARNED FROM MEXICO AND OTHER RECENT EARTHQUAKES Emilio Rosenbleuth, Instituto de Ingenieria, UNAM, Mexico		G. R. Martin, University of Southern California
9:00 - 10:00	SPL10 - STATE OF THE ART		A. H. Hadjian, Bechtel Corporation
	CHAIRMAN: I.M. Idriss EFFECTS OF SOIL-STRUCTURE INTERACTION FOR STRUCTURES SUBJECTED TO EARTHQUAKES A.S. Velstos, Rice University		J. Bielek, Carnegie Mellon University

1:30 - 1:35	OPENING REMARKS Chairman	5:30 - 6:00	LP03 THE LOMA PRIETA EARTHQUAKE: IMPLICATIONS OF STRUCTURAL DAMAGE Steve Mahin, University of California, Berkeley
1:35 - 2:05	GENERAL REPORT		
2:05 - 3:25	DISCUSSION AND REPLIES		
3:25 - 3:30	CONCLUDING REMARKS CO-CHAIRMAN	6:00 - 7:30	DINNER BREAK
	XI. DYNAMIC CHARACTERISTICS OF VIBRATION SOURCES OTHER THAN EARTHQUAKES	7:30 - 10:00	LOMA PRIETA EARTHQUAKE SESSION II
	CHAIRMAN - K. Rainer Massarsch, Geotechnical Engineering SA, Belgium		CHAIRMAN - Roger D. Borcherdt, U. S. Geological Survey
	CO-CHAIRMAN - A. H. Karabinis, Monsanto Co. St. Louis, MO		CO-CHAIRMAN - R.D. Hryciw, University of Michigan
	GENERAL REPORTER - T. Nogami, University of California, La Jolla		GENERAL REPORTER - Mary Ellen Hynes, U. S. Corps of Engineers
1:30 - 1:35	OPENING REMARKS CHAIRMAN	7:30 - 8:00	INVITED TALK LP05 PERFORMANCE OF EARTH DAMS DURING LOMA PRIETA EARTHQUAKE Leslie Harder, Department of Water Resources, Sacramento, CA
1:35 - 2:05	GENERAL REPORT	8:30 - 8:35	OPENING REMARKS CHAIRMAN
2:05 - 3:25	DISCUSSION AND REPLIES	8:35 - 8:55	GENERAL REPORT
3:25 - 3:30	CONCLUDING REMARKS CO-CHAIRMAN	8:55 - 9:15	PANEL PRESENTATIONS
3:30 - 4:00	COFFEE BREAK		PANELISTS - Robert B. Herrmann, St. Louis University
4:00 - 10:00	LOMA PRIETA EARTHQUAKE - A Special Session Dedicated to the Memory of Late Harry Bolton Seed		David Stewart, Southeast Missouri State University
4:00 - 6:00	LOMA PRIETA EARTHQUAKE SESSION I	9:15 - 9:55	QUESTIONS FROM THE FLOOR DISCUSSION AND REPLIES
	CHAIRMAN - Walter W. Hays, U.S. Geological Survey, Reston (VA)	9:55 - 10:00	CLOSING REMARKS CO-CHAIRMAN
4:00 - 6:00	<u>INVITED TALKS</u>	THURSDAY, March 14, 1991	
4:00 - 4:30	DEDICATION LIFE AND PHILOSOPHY OF LATE HARRY BOLTON SEED I. M. Idriss, University of California, Davis	8:00am-3:00pm	REGISTRATION
		8:00 - 9:00	SPL 11 CHAIRMAN - J. L. Chameau, Purdue University
4:30 - 5:00	LP01 SOIL AMPLIFICATION EFFECTS IN LOMA PRIETA EARTHQUAKE I. M. Idriss, University of California, Davis		ASSESMENT OF LIQUEFACTION POTENTIAL AND POST LIQUEFACTION BEHAVIOR OF EARTH STRUCTURES; DEVELOPMENTS 1981-1991 W. D. Liam Finn, Univ. of British Columbia
5:00 - 5:30	LP02 LIQUEFACTION OF SOILS IN LOMA PRIETA EARTHQUAKE Raymond B. Seed, University of California, Berkeley	9:00 - 10:00	SPL 12 CHAIRMAN, Ricardo Dobry R.P.I. Troy

	ASPECTS OF SEISMIC ANALYSIS AND DESIGN OF ROCKFILL DAMS George Gazetas, State University of New York	2:00 - 3:30	SESSIONS VIIA AND XA (SIMULTANEOUS SESSIONS) VIIA. STABILITY OF SLOPES AND EARTH DAMS UNDER EARTHQUAKES
10:00 - 10:30	COFFEE BREAK		CHAIRMAN - William F. Marcuson, III Department of the Army (USWES) Vicksburg, MS
10:30am-12:30pm	SESSIONS III AND IX (SIMULTANEOUS SESSIONS) III. DEFORMATION AND LIQUEFACTION OF SANDS, SILTS, GRAVELS, AND CLAYS CHAIRMAN - G. Castro, GEI Consultants, Worcester (MASS) CO-CHAIRMAN - Les Youd Brigham Young University GENERAL REPORTER - R. G. Campanella University of British Columbia CO-REPORTER - Alex Sy, Klohn Leonoff Ltd.	2:00 - 2:05 2:05 - 2:35 2:35 - 3:25 3:25 - 3:30	CO-CHAIRMAN - Frank Mclean, Bureau of Reclamation Denver, CO GENERAL REPORTER - J. L. Von Thun Bureau of Reclamation Denver, CO OPENING REMARKS CHAIRMAN GENERAL REPORT DISCUSSION AND REPLIED CLOSING REMARKS CO-CHAIRMAN
10:30 - 10:35	OPENING REMARKS CHAIRMAN		X. WAVE PROPAGATION IN SOILS
10:35 - 11:00	GENERAL REPORT		CHAIRMAN - Ian G. Buckle National Center for Earthquake Engineering Research, Buffalo, NY
11:00 - 12:25pm	DISCUSSION AND REPLIES		CO-CHAIRMAN - Anders Bodare, Royal Inst. of Technology, Sweden
12:25 - 12:30	CLOSING REMARKS CO-CHAIRMAN		GENERAL REPORTER - Chaim J. Poran, University of N. Carolina
10:30am-12:30pm	IX. SEISMOLOGY: PREDICTING STRONG GROUND MOTION FOR DESIGN CHAIRMAN - Jim Beavers, Martin Marietta Energy Systems CO-CHAIRMAN - Ken-Ichi Tokida, Public Works Research Institute JAPAN GENERAL REPORTER - Pierre Yves Bard, Laboratoire de Geophysique Interne et Tectoniques Physique	2:00 - 2:05 2:05 - 2:35 2:35 - 3:35 3:25 - 3:30 3:30 - 4:00 4:00 - 5:00	OPENING REMARKS CHAIRMAN GENERAL REPORT DISCUSSION AND REPLIES CLOSING REMARKS CO-CHAIRMAN COFFEE BREAK SESSION VIIB
10:30 - 10:35	OPENING REMARKS CHAIRMAN		VIIB. CHAIRMAN - Norbert O. Schmidt, University of Missouri-Rolla
10:35 - 11:00	GENERAL REPORT		CO-CHAIRMAN - Panos Dakoulas Rice University Houston, TX
11:00 - 12:25pm	DISCUSSION AND REPLIES		GENERAL REPORTER - J. L. Von Thun Bureau of Reclamation
12:25 - 12:30	CLOSING REMARKS CO-CHAIRMAN		
12:30 - 2:00	LUNCH BREAK/VISIT EXHIBITION/POSTER SESSION		

4:00 - 4:05	OPENING REMARKS CHAIRMAN	10:50 - 11:00	Richard D. Raines Exxon Production Research
4:05 - 4:55	DISCUSSION AND REPLIES	11:00 - 11:10	T. Nogami University of California La Jolla
4:55 - 5:00	CONCLUDING REMARKS CO-CHAIRMAN		
5:00 - 6:00	VISIT EXHIBITION/POSTER SESSION/FILMS	11:10 - 11:20	Ronald C. Chaney Humboldt State University
6:00 - 7:00	CASH BAR	11:20 - 11:55	DISCUSSION AND REPLIES
7:00 - midnight	BANQUET/SPEECHES Banquet Speaker: Joseph H. Senne, Emeritus Professor, University of Missouri-Rolla, Topic: "It Is About Time"	11:55am-12:00pm	CONCLUDING REMARKS (CO-CHAIRMAN)
		12:00 - 12:45	CONCLUDING SESSION CHAIRMAN - Shamsher Prakash <u>IMPRESSIONS</u> "FUTURE PROGRAMS" RESOLUTIONS

FRIDAY, March 15, 1991

8:00am-10:00am	REGISTRATION	1:00	CONFERENCE ADJOURNS
8:00 - 9:00	SPL 13 CHAIRMAN - G.R. Martin Southern California University	3:00	TOUR A LEAVES FOR NEW MADRID FAULT ZONE
	EARTHQUAKE GEOTECHNOLOGY IN OFFSHORE STRUCTURES Robert G. Bea University of California Berkeley	2:30	TOUR B LEAVES FOR ROLLA AND OZARKS

SUNDAY, March 7, 1991

9:00 - 10:00	SPL 14 CHAIRMAN - R.D. Woods University of Michigan	3:00pm	TOUR A AND B RETURN TO ST. LOUIS, MO
	PILES UNDER DYNAMIC LOADS M. Novak Univ. of Western Ontario Canada		
10:00 - 10:30	COFFEE BREAK		
10:30 - 12:00	SESSION VI VI. EARTHQUAKE GEOTECHNOLOGY IN OFFSHORE STRUCTURES CHAIRMAN - R.G. Bea University of California at Berkeley CO-CHAIRMAN - Richard D. Raines, Exxon Production Research		
10:30 - 10:40	OPENING REMARKS CHAIRMAN		
10:40 - 11:30	PANEL PRESENTATIONS		
10:40 - 10:50	PANELISTS - Geoffrey R. Martin, University of Southern California		