

INVITED SPEAKER BIOGRAPHIES

Plenary Session I

Monday, July 28, 2008, 8:00 am – 9:30 am

W. PHILLIP YEN, FEDERAL HIGHWAY ADMINISTRATION

8:00 am

Welcome

9:00 am

A Summary of FHWA Sponsored Research

As Program Manager of the Seismic Hazard Mitigation Program, Office of Infrastructure R&D, Federal Highway Administration (FHWA), Phillip Yen has the responsibility to administer technical aspects of earthquake engineering research for highway infrastructure. Dr. Yen has published many technical papers in the areas of modal identification of bridges structures, non-destructive evaluation and testing, seismic design, shake table testing of bridge columns and bridge vibration tests, and cable stress assessment of cable-stayed bridges. Dr. Yen is FHWA's representative to the National Earthquake Loss Reduction Program and is Chair of the *Sixth National Seismic Conference* steering committee. He also served as past Chair of the technical committees of the Fourth and Fifth National Seismic Conferences. He is the chair of FHWA's National Seismic Engineering Team. He serves as the US-side Chair of the annual US-Japan Bridge Engineering Workshop. A registered Professional Engineer in the state of Virginia, Dr. Yen was named "The Engineer of the Year 2000" for the FHWA and has received many awards from the agency, including an Engineering Excellence Award in 1999.



HARRY B. LIMEHOUSE, JR., SOUTH CAROLINA SECRETARY OF TRANSPORTATION

8:15 am

Welcome

Harry B. Limehouse, Jr., was recently appointed by Governor Mark Sanford as the first Secretary of Transportation in the history of South Carolina. Previously, Mr. Limehouse served as a Commissioner, Chairman of the Commission, Executive Director and a member of the State Transportation Infrastructure Bank Board. Mr. Limehouse has served as a consultant to the Georgia Department of Transportation and was nominated by the Florida Department of Transportation Commission for the post of Secretary of Transportation in that state.



Mr. Limehouse, also known as "Buck," received a Bachelor of Arts degree from The Citadel. In May 1995, he was awarded an honorary Doctorate Degree in Hospitality management from the prestigious Johnson & Wales University. The Citadel awarded him an Honorary Doctorate of Business in May 1997. Among his numerous honors, he was named "Transportation Advocate of the Year" in 1995 by the South Carolina Transportation Policy Council, and he received the Order of the Palmetto from Governor Campbell in 1995 and a second Order of the Palmetto from Governor Beasley in 1999. He is listed in "Who's Who in America" and "Who's Who in the World."

KING W. GEE, FEDERAL HIGHWAY ADMINISTRATION

8:30 am

U.S. Highway Infrastructure in the 21st Century

Mr. King W. Gee is the Associate Administrator for Infrastructure, Federal Highway Administration (FHWA). FHWA administers an annual Federal-aid highway program of more than \$35 billion and works in partnership with the States and local governments to maintain the effectiveness, safety, and efficiency of the nation's roads and bridges. The Infrastructure Unit is responsible for providing agency leadership on the administration of the Federal-aid highway program, on the core engineering disciplines dealing with roads and bridges, and on infrastructure asset management.

Prior to assuming his current assignment in February 2001, Mr. Gee was the Director of the Federal Highway Administration's Office of International Programs. In this position, he was responsible for the direction and overall coordination of all international programs and activities of the agency. The primary focuses of these international efforts are technological exchange, technical assistance, and promotion of U.S. technology. Mr. Gee has served in a number of other management positions of the agency including Acting Director of Policy; and Deputy Regional Administrator for the Mid-Atlantic Region, which included Delaware, the District of Columbia, Maryland, Pennsylvania, Virginia and West Virginia.

A native of New York City, Mr. Gee is a graduate of Rensselaer Polytechnic Institute where he received Bachelor of Science and Master of Engineering degrees, both in Civil Engineering (Transportation).

Mr. Gee has received a number of performance and honor awards including the FHWA Administrator's Award for Superior Achievement, and the Presidential Rank Meritorious Executive Award.



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Lunch

Monday, July 28, 2008, 11:45 am - 1:00 pm

PRADEEP TALWANI, UNIVERSITY OF SOUTH CAROLINA

The Charleston Earthquake, Then and Now

Pradeep Talwani is a Professor of Geophysics and Associate Chairman of the Department of Geological Sciences, University of South Carolina (USC). He earned his M.Sc. in Applied Geophysics at the Indian School of Mines in 1962, and M.S. and Ph.D. degrees in Geophysics from Stanford University in 1971 and 1973, respectively. He is the Director of the South Carolina Seismic Network. He worked in Oil Exploration in India from 1962 to 1968, and has been at USC since 1973.



His current and past professional affiliations include the American Geophysical Union, Seismological Society of America, Earthquake Engineering Research Institute, Geological Society of America, and the United States Committee on Large Dams, among others.

His current and past research activities include the study of prehistoric and current seismic activity and seismic hazard analysis in South Carolina; the 1886 Charleston earthquake—its history, causes, mechanisms, seismotectonics, etc. He was involved in reevaluation of seismic hazards in the South Carolina Coastal Plain for the South Carolina Department of Transportation, and the seismic hazard evaluation of the new Cooper River Bridge. His other research interests include the study of reservoir induced seismicity, fluid pressure flow in fractures, the study of paleoliquefaction features to obtain the recurrence time of prehistoric earthquakes, and the measurement of geodetic strain in the Charleston area. Together with his students, he has given more than 400 technical talks and published more than 100 research papers.

Among his professional honors are being elected as a Fellow of the Geological Society of America, the Seismological Society of America's Eastern Section JSA Award for Contributions to Observational Seismology, and the 2008 Richard Russell Research Award for Science, Mathematics and Engineering, the highest research award given at USC.

Plenary Session III

Wednesday, July 30, 2008, 8:00 - 9:45 am

GIAN MICHELE CALVI, UNIVERSITY OF PAVIA, ITALY

8:00 am

Displacement Based Seismic Design of Bridges

Gian Michele Calvi is professor of Structural Design at the Università degli Studi di Pavia and Director of the Centre of Research and Graduate Studies in Earthquake Engineering and Engineering Seismology (ROSE School), Istituto Universitario di Studi Superiori (IUSS) of Pavia. He received his Master of Science from the University of California, Berkeley and his Ph.D. from the Politecnico di Milano.

Dr. Calvi serves as Associate Editor of the "Journal of Earthquake Engineering." He is also the author of more than 200 publications, among them the book "Seismic Design and Retrofit of Bridges," written together with M.J.N. Priestley and F.




Building bridges, creating lifelines



CH2M HILL, as a joint-venture partner, designed the Benecia-Martinez Bridge to relieve I-680 traffic congestion between Contra Costa and Solano counties in northern California. Important? Absolutely.

But perhaps more vital is the span's designation as a "lifeline" structure that will remain open to emergency traffic following a major seismic event.

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Seible and published in 1996 by John Wiley, which has been translated into Japanese and Chinese. More recently, he has co-authored the book "Displacement-Based Seismic Design of Structures" (with M.J.N. Priestley and M.J. Kowalsky, IUSS Press, Pavia, 2007, 721 pp.), whose review for a major journal, written by G. Powell, Emeritus of the University of California, Berkeley, starts with this sentence: "It is rare for a book on structural engineering design to be revolutionary. I believe that this is such a book."

His research interests are related to design and assessment of bridges and buildings, with emphasis on either experimental and numerical aspects. He is coordinating several international research projects on these subjects. He has been involved in the seismic design or verification of several hundred buildings and bridges, has been a member of the checker team for the Rion-Antirion cable stayed bridge (2883 m, in Greece) and the designer of the strengthening intervention of the Bolu viaduct (119 spans, in Turkey).

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JULIO KUROIWA, NATIONAL UNIVERSITY OF ENGINEERING, LIMA, PERU

8:45 am

Reconstruction of Ica, Pisco, Chincha and Cañete, Peru, Based on Updated Hazard Maps

Julio Kuroiwa, Professor Emeritus of the National University of Engineering (UNI), Lima, Peru, has been a

consulting engineer for 35 years, and is the author of 100 papers on natural and technological disasters presented at world conferences and national and international seminars and congresses. He has written four books on disaster prevention and risk reduction.

Professor Kuroiwa has carried out investigations on natural disasters in the Americas for more than 30 years, developing methods and techniques for microzonation, urban planning, and earthquake-resistant buildings, among other studies. In 1980-84 and again in 1984-88, he was Director of the International Association of Earthquake Engineering with headquarters in Tokyo, Japan. In 1990, the United Nations Sasakawa-UNDRO Disaster Prevention Award, among other distinctions, was awarded to Professor Kuroiwa for his contributions. He was a member of the Advisory Committee of the United Nations Center for Regional Development, Nagoya, Japan from 1998 to 2000. He was also the Chief Technical Advisor to the United Nations Disaster Mitigation Program in Colombia (1988-91) and Peru (1992-95), and the Chief Technical Advisor to the Sustainable Cities Program in Peru (1999-2007). He has conducted many study missions to countries in Central and South America for several United Nations (UN) and Organization of American States (OAS) agencies. At present, he is Chief Technical Advisor of the Reconstruction Program/Sustainable Cities advising the Peruvian Government under contract with United Nations Development Program (UNDP).

His biography is included in the "Who's Who in the World" 1997, 1999 and 2001 editions; and "Who's Who in Science and Engineering" 1985, 2000 and 2001 Millennium editions, published by Who's Who in America. The directory of the Biographical Institute of the United States recognizes Professor Kuroiwa as one of the 500 Leaders of Influence in the years 2001 and 2003, and he has been considered by the International Biographical Centre of Cambridge, England as one of the 2,000 most outstanding scientists of the 20th century and international scientist of the year in 2004. He has been an Honorary Member of the International Association for Earthquake Engineering since 2004.

