

INVITED SPEAKER BIOGRAPHIES

Plenary Session I

Monday, September 18, 2006, 8:00 - 9:50 am

PHILLIP YEN, FEDERAL HIGHWAY ADMINISTRATION

8:00 am

Welcome

Phillip Yen is the Program Manager of the Seismic Hazard Mitigation Program, Office of Infrastructure R&D, Federal Highway Administration. He has the technical responsibility to conduct earthquake engineering research in highway construction. Dr. Yen has published many technical papers in the area 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 a steering committee member and the chair of the technical committee of the 4th & 5th National Seismic Conference on Highway and Bridges. He is the chair of FHWA's National Seismic Engineering Team. He serves as the US side chair of the US-Japan Bridge Engineering Annual Workshop. He is 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 outstanding awards from the agency including an Engineering Excellence Award in 1999.



MYINT LWIN, FEDERAL HIGHWAY ADMINISTRATION

8:15 am

Innovations in Earthquake Engineering for Highway Structures

Myint Lwin was educated at the University of Rangoon, Burma and obtained his Master's degree from the University of Washington in Seattle. He was previously State Bridge Engineer, Washington State Department of Transportation and Structural Design Engineer, FHWA Western Resource Center, San Francisco, California. He is currently Director of the Office of Bridge Technology for the Federal Highway Administration in Washington DC, with responsibility for policy and program direction, bridge technology research, development, and implementation of SAFETEA-LU funded programs, and successful delivery of the U.S. Highway Bridge Program. Mr. Lwin is a registered Professional Engineer in Civil and Structural Engineering, a member of the American Concrete Institute, a Life Member of ASCE, and a member of Transportation Research Board Committees on Steel



Bridges, Construction, and Basic Research. He has authored numerous papers and books, e.g. "Seismic Design and Retrofit of Highway Bridges in Washington State," "Use of High Performance Concrete in Highway Bridges in Washington State," "Chapter 22 Floating Bridges, Bridge Engineering Handbook," "High Performance Steel Designers' Guide" and "Self-Compacting Concrete in Japan, Europe and the U.S."

RICHARD D. LAND, CALIFORNIA DEPARTMENT OF TRANSPORTATION

8:40 am

Seismic Safety - Challenges and Opportunities

Richard D. (Rick) Land is currently the California Department of Transportation's Chief Engineer and Deputy Director for Project Delivery. He has been with Caltrans for over 27 years. For the three years prior to his current assignment, Mr. Land was Chief of the Caltrans' Structure Design operations and Caltrans State Bridge Engineer. After graduating from California State University, Sacramento with a Bachelor's degree in Civil Engineering, Mr. Land went to work for Caltrans in the Marysville Area (District 3) as an entry level civil engineer. In 1980, he transferred to what was then the Division of Structures and was promoted through the levels to senior management after working at various positions in Structure Design, Structure Construction and Structure Specifications. Mr. Land's management career began in 1993, when he became the Chief of the Structures Special Projects Office. In 1995, he became one of the two Office Chiefs in Structure Design before finally taking over as the Division's Deputy of Structure Design. The majority of Mr. Land's career with the Department has been focused on the delivery of transportation improvement projects, from inception to completion of construction.



KAZUHIKO KAWASHIMA, TOKYO INSTITUTE OF TECHNOLOGY

9:05 am

Enhancement of Seismic Performance of Bridges

Kazuhiko Kawashima is a Professor in the Department of Civil Engineering, Tokyo Institute of Technology, Japan. He received his B.E., M.E. and Doctor of Engineering in Civil Engineering from Nagoya University, Japan, in 1970, 1972 and 1980, respectively. He joined the Public Works Research Institute of the Japanese Ministry of Construction in 1972 and was involved in developing seismic design codes for highway facilities. He chaired the Seismic Design



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Subcommittee of the Japan Road Association in the revision of the 1990 and 1996 versions of "Seismic Design Specifications of Highway Bridges." He joined the Tokyo Institute of Technology in 1995. He is interested in the ductility evaluation of structural components, structural response, seismic retrofit and seismic isolation of bridges. He authored and co-authored over 250 technical papers on ground motions, structural response with pounding effect, residual displacement, ductility evaluation of reinforced concrete columns, and seismic isolation and variable control of bridges.

Plenary Session II

Tuesday, September 19, 2006, 8:00 - 9:50 am

LICHU FAN, TONGJI UNIVERSITY

8:00 am

Life Cycle and Performance Based Seismic Design of Major Bridges

Lichu Fan is the deputy director of the academic committee of the State Key Laboratory for Disaster Reduction in Civil Engineering (SLDRCE) at Tongji University, Shanghai, China. He is also the president of the China Civil Engineering Society, and the alternate committee member of the Standing Committee of the International Association of Bridge Engineering Society. Dr. Fan has devoted himself to the seismic analysis and design of bridges for more than 40 years. He developed a 3-D nonlinear seismic analysis method and computer program for long span bridges, and guided most of the seismic design of long span bridges in China. He invented two new types of seismic rubber bearings and one new type of seismic buffer retaining block, and developed some new seismic retrofitting techniques for RC bridge piers. In 1999, Dr. Fan was awarded the Mao-Yisheng Prize (Individual Achievement Award) owing to his outstanding contributions in China, and was awarded "National Excellent Teacher" from the China Ministry of Education for his prominent contribution to undergraduate teaching at Tongji University in 2004. Dr. Fan is currently working on the first Specifications of "Seismic Design for Urban Bridges" initiated by the Ministry of Construction of PRC, and also promoting US-China international cooperative research and practices in bridge engineering.



T.J. ZHU, BUCKLAND & TAYLOR, LTD.

8:35 am

Seismic Design Issues for Long-Span Bridges

T.J. Zhu is a senior bridge engineer and seismic specialist with Buckland & Taylor Ltd. in North Vancouver, British Columbia, Canada. He obtained his Ph.D. degree in structural and earthquake engineering from McMaster University in Ontario, Canada in 1990. After receiving his Ph.D. degree, he continued research in earthquake engineering at McMaster University. Dr. Zhu joined Buckland & Taylor Ltd. in 1991 and has worked on most of the Company's major seismic projects since, including both design of new bridges and retrofit of existing bridges. His bridge project experience includes the Messina Strait Crossing in Italy, the Chacao Channel Bridge in Chile, the Rion Antirion Bridge in Greece, the Cooper River Bridge in the US, and seismic retrofit design of the Golden Gate Bridge in the US. He serves on the seismic subcommittee of the Canadian Highway Bridge Design Code and has co-authored several papers on seismic analysis and design of bridge structures.



LARS HAUGE, COWI

9:10 am

Pushing the Span Limits for Long-Span Bridges - A State of the Art Review

Lars Hauge is the Director for International Bridge Projects at COWI in Copenhagen, Denmark. He graduated from the Technical University of Denmark in 1986 and has been employed by COWI since 1990. Mr. Hauge has considerable experience in design and construction of cable supported bridges - gained through involvement in the design of some of world's largest bridges including the Normandy Bridge in France, the Great Belt Suspension Bridge and the Øresund Link in Denmark, the Stonecutters Bridge and the Sutong Bridge in China and the Busan-Geoje Fixed Link in Korea. He was stationed in Asia from 2001 to 2005 and since his return, he has been involved in the design of Chacao Bridge in Chile and the Messina Bridge in Italy.



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Conference Banquet

Tuesday, September 19, 2006, 7:00-9:00 pm

CHARLES SEIM, CONSULTANT

Bridge Engineering - We've Come a Long Way

Charles "Chuck" Seim began his professional career in 1954 with the State of California, Division of Bay Toll Crossings (which later became part of Caltrans), as an engineer for the construction of the Richmond-San Rafael Bridge. He was later the design engineer for the San Diego-Coronado Bay Bridge and the Dumbarton Bridge over San Francisco Bay. He left Caltrans in 1980 as the Maintenance Engineer for all nine California State-owned toll bridges and joined T.Y. Lin International as a Vice President and Senior Bridge Engineer. He retired from T.Y. Lin International in June 2004 and established his own office as a consulting bridge engineer. He is a registered Professional Engineer in California, Arizona, Oregon, Idaho, Colorado, and Louisiana. Mr. Seim is an ASCE Fellow, a past member of the Long Span Bridge Committee, and is currently an Associate Editor of the Journal of Bridge Engineering. He is a past member of the Transportation Research Board Committee on Steel Bridges. He is also a member of the International Association of Bridge and Structural Engineers, American Concrete Institute and the Structural Engineers Association of Northern California. In 2006, Mr. Seim received the John A. Roebling Medal, a lifetime achievement honor.



with optical fibers, and seismic behavior of precast segmental concrete bridge columns. In addition, he has been involved in the development of design codes and guidelines related to the seismic design of bridges and highways in Taiwan. His current research interests include structural control, innovative bridge bearing systems, structural and geotechnical health monitoring systems with advanced sensor technologies and the seismic behavior of precast bridge columns.

ROY A. IMBSEN, CONSULTANT

8:45 am

The Legacies of Jim Cooper & Jim Roberts

Roy Imbsen has 45 years of experience as a practicing bridge engineer. His experience includes design, analysis, research and construction of transportation facilities. As President of Imbsen & Associates, Inc., now TRC Imbsen, he led a team of bridge and highway engineers for 20 years. Dr. Imbsen's experience covers a broad range of projects within the US and several other countries. He is a registered Professional Engineer in 18 states and is the Engineer of Record on several major transportation facilities. Additionally, Dr. Imbsen has been Principal Investigator on many bridge related research projects (sponsored by NSF, FHWA, AASHTO, NHI, SCDOT and Caltrans) covering bridge rating, wheel load distribution, thermal effects in concrete, computer program development for analysis and design and writing new design specifications. Dr. Imbsen has been a pioneer in developing, implementing, teaching and applying seismic design principles to bridges since the San Fernando earthquake in 1971. He was a co-recipient of the AASHTO Dr. L.I. Hewes Award for the development of the first comprehensive seismic design specifications, which remained in effect for fifteen years. Additionally, Dr. Imbsen participated in the development of the current AASHTO Division IA and is currently completing the LRFD Guideline Specifications for the Seismic Design of Bridges.



Plenary Session III

Wednesday, September 20, 2006, 8:00 - 9:50 am

K.C. CHANG, NATIONAL TAIWAN UNIVERSITY

8:00am

Seismic Assessments of Bridges with Rubber Bearings during 1999 Taiwan Chi-Chi Earthquake

Kuo-Chun Chang is Professor and Chairman at the Department of Civil Engineering, National Taiwan University. He is also in charge of bridge research at the National Center for Research on Earthquake Engineering (NCREE), Taiwan. He received a B.S. degree from National Taiwan University, and M.S. and Ph.D. degrees from the University of Buffalo. His research experiences related to earthquake engineering for bridges include seismic behavior and retrofit with fiber reinforced polymers of conventional reinforced concrete bridge columns, development of bridge seismic bearing systems and health monitoring systems



9:25 am

Presentation of Jim Cooper and Jim Roberts Best Paper Awards