



International Association of Chinese Geotechnical Engineers

2 Ada, Suite 250, Irvine, California 92618; Tel: 949-727-4466; Fax: 949-727-9242;
Website: www.iacge.org EIN: 27-0835587 (IRS 501c3 Organization)

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The 1st U.S.-China Bilateral Seminar on Mega Bridges and Deep Foundations & The 13th IACGE Workshop

September 20, 2012, 8:00am-5:00pm

Caltrans District 7 First Floor Conference Room, 100 Main Street, Los Angeles, CA 90012

AGENDA:

8:00am-9:00am	Registration, Breakfast and Networking
9:00am-9:05am	Opening Remarks, Endi Zhai, President of IACGE
9:05am-9:15am	Welcome Speech, Lindy K. Lee, Chief Deputy Director, Caltrans District 7

1) Keynote Presentation (9:15am-10:05am) – **Innovations in the Design and Construction of China's Mega Railway Bridges**, Invited Speakers: **Ms. Liming SHENG**, Chief Engineer & Deputy Director of Engineering Management Center of the Chinese Ministry of Railways, China.

2) Keynote Presentation (10:10am-10:50am) – **Innovations in the Design and Construction of Pile Caps for Bridge Foundations**, Invited Speakers: **Mr. Robert Bittner**, President of Bittner-Shen Consulting Engineers, Inc. Portland, OR.

10:55am – 11:15am **Coffee Break**

3) Keynote Presentation (11:15am-12:05pm) – **New Technologies and Innovations of Mega Highway Bridges and Root Foundations in China**, Invited Speakers: **Mr. Yonggao YING**, Director of Bridges, Anhui Provincial Expressway Authority, China.

12:05pm – 1:05pm **Lunch**

4) Keynote Presentation (1:10pm-1:50pm) – **Design, Testing, and Construction of the I-70 Mississippi River Bridge**, Invited Speaker: **Mr. Robert Turton, PE, SE**, Senior Vice President & National Bridge Practice Leader, HNTB Corporation, Kansas City, MO.

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Lindy K. Lee



Liming SHENG



Robert Bittner, PE



Yonggao YING



Robert Turton, PE, SE



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5) Keynote Presentation (1:55pm-2:45pm) – **Load Testing on Large Diameter Deep Foundations of Mega Bridge Projects in China**, Invited Speakers: **Dr. Weiming GONG**, Professor of Southeast University, Nanjing, China.



Weiming GONG

2:50pm – 3:10pm **Coffee Break**

6) Keynote Presentation (3:10pm-3:50pm) – **San Francisco-Oakland Bay Bridge – Design, Construction and Management**, Invited Speaker: **Mr. Randell Iwasaki, PE**, Executive Director at Contra Costa Transportation Authority and Former Director of Caltrans, Walnut Creek, California.



Randell Iwasaki, PE

7) Panel Discussions (3:55pm-4:55pm) – **Implications of New Technologies and Innovations for Future California Bridges**



Douglas Failing, PE



Basem Muallem, PE



Cheng Lai, PE, SE



John Koo, PE, SE

Moderator: **Douglas Failing, PE**, Executive Director, LA Metro Highways
Panel Members:

Basem Muallem, PE, New Director of Caltrans District 8

Cheng Lai, PE, SE, Senior Structural Engineer, Port of Long Beach

John Koo, PE, SE, Senior Structural Engineer & Project Manager, City of Los Angeles

Randell Iwasaki, PE, Executive Director, CCTA

Robert Bittner, PE, President, Bittner-Shen Consulting Engineers, Inc.

Robert Turton, PE, SE, Senior Vice President & National Bridge Practice Leader, HNTB Corporation

Closure (4:55pm-5:00pm)

Registration & payment online at www.iacge.org

Cost: Early-bird before August 20, 2012, \$120 regular; \$60 Government Employees/Students (including meals, coffees and presentation PDF slides)
After August 20, 2012, \$150 regular; \$75 Government Employees/Students
Seats are limited to 150 attendees.

Site Coordinates: North 34.0512 degree, West 118.2432 degree.

Nearest Hotel: DoubleTree by Hilton Hotel Los Angeles Downtown, 120 S. Los Angeles Street, Los Angeles, CA 90012. Ph: +1-213-629-1200



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Bios of the Prestigious Keynote Speakers From China



Liming SHENG

Ms. Sheng is currently the deputy director and chief engineer at the Engineering Management Center of the Chinese Ministry of Railways, overseeing mega and critical railway projects nationwide. She has 30 years of experience in design and project management. She has managed and completed more than 60 regular railway, high speed railway, heavy rail, Qinhuangdao-Shenyang passenger dedicated railway, high speed of common span simply supported T beam, box girder, continuous girder bridges as well as the design of bridge waterproof layer, and ancillary facilities, support, beam steering rack, under the railway deck steel plate girder bridges, and highway bridges.

She was also in responsible charge of 9 research projects on high speed railway and the research results have been widely adopted and applied to China's engineering practices. Since 1989, she has consistently participated in the formulation of railway bridge standards and during 1995-2004, she was in charge of the drafting of the girder part of the bridge acceptance standards. Moreover, Ms. Sheng has led and participated in 19 projects for technical specifications in China. Many of her design projects were awarded with the national gold and silver prizes as well as the first prize from the Ministry of Railways.

Mr. Ying is the Director of Bridge Division of the Anhui Provincial Expressway Bureau and the owner-side project manager for a number of mega river-crossing bridges in Anhui Province. In 1984, he participated in the design of Anhui Province's first cable-stayed bridge – Bengbu Cable-Stayed Bridge. Since then, He was responsible for the Hefei-Xuzhou Expressway Bridge in 1995, Shanghai-Chengdu expressway sector segment bridge design work. From 2003 to 2009 he led the dry-vibration composite pile research projects, and series of so-called root pile foundations research projects. His results were applied in the Yangtsu River Crossing Highway Bridges in Anhui Province. His root caisson foundations, suspension-bridge root anchorage technologies have passed the national committee review and have been applied in Ma-An-Shan Yangtsu River Crossing Bridge, and Wang-Dong Yangtsu River Crossing Bridge.

He has 10 patents in China, three of them were innovation-type of patents, one was related to construction method. Mr. Ying obtained his BS degree from Hehui University of Technology in 1982, and a MS degree later.



Yonggao YING



Weiming GONG

Dr. Weiming Gong is a professor at China's Southeast University. His research and practices focus on load cell testing on large diameter deep foundations including various types of piles, shafts and anchorages embedded in soils and rocks. In China, he pioneers in the load cell test methods. He obtained two patents, and completed over 300 test projects, with shaft diameters up to 8 meters (26 feet). He has tested end-bearing capacity using grouting technology for super long drilled shafts for a number of long span bridges. He provided analysis of strengthening mechanism of grouting, determined the work modes of grouting in different soil layers and made calculation model which takes the grouting parameters, geological parameters and geometric parameters of shafts. Based on many of his testing results, he developed design methods for bearing capacity of drilled shafts of various diameters and soil conditions. He also developed the control methods for grouting parameters and control measurement for construction quality. In China, he is responsible for bridge foundation design codes regarding bearing capacity and formulas for foundation settlement, time for pressing and enveloping pile, and distribution proportion of pile and soil, which have been applied in many projects in China.

Dr. Gong obtained his PhD from Southeast University in 1996, a MS degree from Tongji University in 1987, and a BS degree from Zhejiang University in 1985.



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Bios of the Prestigious Keynote Speakers from the United States



Randell Iwasaki, PE

Mr. Randell Iwasaki is currently the Executive Director of the Contra Costa Transportation Authority which administers a one-half percent sales tax program. The 1988 "Measure C" program consists of \$1.1 billion in projects and programs; the 2004 "Measure J" program totals \$2 billion and will run from 2009 through 2034. The Authority is also the Congestion management Agency, making recommendations on how state and federal transportation funds will be used in Contra Costa County; and serves as manager for the Transportation Funds for Clean Air Program. The Authority emphasizes collaborative and cooperative project development and transportation planning, along with aggressive project delivery.

He was appointed by Governor Schwarzenegger in July 2009 as the Director for Caltrans. He was in responsible charge of the operation of California's state transportation system including more than 50,000 lane miles of state highway stretching from Mexico to Oregon and from the Pacific Ocean to Nevada and Arizona. He oversaw a nearly \$14 billion annual operating budget and more than 22,000 employees.

Iwasaki obtained a MS degree from California State University – Fresno in 1989, and a BS degree from California Polytechnic State University-San Luis Obispo in 1982.

Robert D. Turton, P.E., S.E. is a Senior Vice President with HNTB Corporation. He is a recognized specialist in bridge and structural engineering with more than 35 years of experience in research, industry, and consulting. As National Bridge Practice Leader, Rob is responsible for the development and quality of HNTB's engineering program for bridges and structures, and serves as principal engineer on large and complex projects. Representative project experience includes the Navajo Bridge over the Colorado River in Grand Canyon National Park, the San Francisco – Oakland Bay Bridge East Bay Crossing, the seismic retrofit of the Golden Gate Bridge, the I-5 Columbia River Crossing, and the Hoover Dam Bypass. Rob completed his undergraduate studies in aerospace engineering at Boston University and his graduate studies in civil engineering at the University of Arizona. He is a registered professional, civil and structural engineer in numerous states.



Robert Turton, PE, SE



Robert Bittner, PE

Mr. Bittner is a professional engineer with 40 years experience in construction engineering and project management on major marine structures worldwide including the Itaipu Dam in Brazil and the Oresund Tunnel connecting Denmark and Sweden.

The focus of his work has been minimizing construction cost of major marine structures through the design and development of innovative construction methods and equipment.

Mr. Bittner is currently President of Bittner-Shen Consulting Engineers, Inc, a firm specializing in the design of innovative marine structures including bridge foundations, marine terminals, offshore GBS structures, locks and dams. Prior to starting his own firm in 2009, Mr. Bittner was President of Ben C. Gerwick, Inc. While at Gerwick, he provided construction-consulting services worldwide and managed the design of several marine structures, including an innovative float-in dam on the Monongahela River in Pennsylvania for the US Army Corps of Engineers. Additionally, he led the Gerwick team that developed a new float-in cofferdam system that has been successfully used on the foundations for the New Bath-Woolwich Bridge in Maine, the New Carquinez Bridge in the San Francisco Bay Area, the new Port Mann Bridge in Canada, and three major bridges in Asia. Mr. Bittner was Chairman of the Marine Foundations Committee for DFI for 6 years from 2003 to 2008.



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Bios of the Panel Members



Douglas Failing, PE

Mr. Failing is currently serving as the Executive Director of the Highway Program for Los Angeles County Metro where he is responsible for Delivery of the nearly \$8 billion Measure R Highway Program. Before joining LA Metro, he was the Director of Caltrans District 7. In 2006, Failing was chosen by the Los Angeles Times' West Magazine as one of the 100 most influential people in Southern California. In addition, Los Angeles Magazine highlighted Mr. Failing in their December, 2006 issue as one of the most influential people in Los Angeles.

Failing earned a Bachelor of Science Degree in Civil Engineering from Michigan Technological University in Houghton in 1980 and was hired at Caltrans in June of 1980 as a Junior Civil Engineer.

Basem Muallem is recently promoted as the Director for Caltrans District 8, responsible for Caltrans in Riverside and San Bernardino Counties. He was previously the Deputy District Director for PPM and Maintenance. On his PPM Deputy position from February 2008, Mr. Muallem oversaw the overall management of the Capital program, and the Capital Quality Support (COS) budget for all district staff who work on Capital projects. Project managers, Program managers, Architectural & Engineering Contract managers, and other support staff are under his division. As a License civil engineer, Mr. Muallem has been with Caltrans for 28 years, serving in a number of engineering and management positions.

After graduating in 1983 from the California State university, Long Beach with a Bachelors, the later with Masters in Civil Engineering, Mr. Muallem went to work for Caltrans in Los Angeles (District 7) as an entry level civil engineer. In 1989, he transferred to District 8 and promoted through the ranks to his current position.



Basem Muallem, PE



Cheng Lai, PE, SE

Cheng C. Lai, P.E., S.E. is a Senior Structural Engineer with the Port of Long Beach, CA. He has more than 28 years of experience in the design of bridges and marine structures and currently heads up the Port of Long Beach's Structural Engineering design team. In this role Mr. Lai provides structural oversight on all projects at the Port of Long Beach including Gerald Desmond Bridge Replacement Project. He is also involved in numerous ASCE technical committees relating to structural engineering and code changes.

Mr. Lai received his Master Degree in Civil Engineering from the University of Illinois at Urbana-Champaign and Bachelors Degree from the National Cheng Kung University in Taiwan.

As Senior Structural Engineer/Project Manager, John is currently assigned to the City's executive team on the management of their \$400 million 6th Street Viaduct Replacement Project involving an iconic signature main span like the Gerald Desmond bridge. John spearheaded the completion of the EIR/EIS in 4 short years and is currently assisting in the procurement of the final design consultant firm through an international design competition. John has 24 years of bridge engineering experience with the City of Los Angeles. For the past 12 years, he established and managed the City's \$1 billion Bridge Improvement Program consisting of numerous major bridges. In the 90s, he managed their \$140 million Phase I Seismic Retrofit program consisting of 117 bridges.



John Koo, PE, SE

John completed his Bachelors degree in Civil Engineering from Cal Poly Pomona in 1988. He received his MS degree in Civil Engineering from Cal State Long Beach in 1991. He is a California registered SE since 1993