TUESDAY, AUGUST 26, 2008

OPENING COMMENTS (8:15 - 8:30)

MAJOR BRIDGE SESSION (8:30 - 10:10)
OBC-08-01 — Design and Construction of the Orthotropic Steel Deck Bridge in Elin Pelin, Bulgaria
Doncho Partov and Radan Ivanov; VSU “Lyuben Karavelov”, Bulgaria
OBC-08-02 — Orthotropic Steel Deck Bridges in Korea
Dong-Ho Choi, Yong-Sik Kim, Hoon Yoo; Hanyang University, Korea
OBC-08-03 — The New Steel-and-Light Doorway for the City of Padua,
Roberto Zanon and Francesco Caobianco; NET Engineering, Spain

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DESIGN - 1 (10:40 - 11:55)
OBC-08-04 — Estimation of Compressive strength of Trapezoidal-Shaped Ribs in Orthotropic Decks
WanChun Jen, and Ben T Yen; Jacobs Civil, Inc., NJ, USA
OBC-08-05 — The slope deflection method for orthotropic plated bridge decks
Hans, De Backer, Amelie Outier, Corneel Delesie and Philippe Van Bogaert; Ghent University, Gent, Belgium
OBC-08-06 — Analysis of Distress Characters and Design of Steel Orthotropic Bridge Decks Pavilion in China
XU Wei, ZHANG Xiao-ning; South China University of Technology, China

LUNCHEON KEYNOTE (11:55 - 13:30)
OBC-08-07 — We Shall Use No Technology Before Its Time
Charles Seim; Consultant, California, USA

MAINTENANCE AND REHABILITATION-1 (13:30 - 15:10)
OBC-08-08 — The Use of Ultrasonic Testing Methods to Evaluate Volumetric Defects in Closed Rib Welds
Patrick S. Lowry and David McClary; California, USA
OBC-08-09 — A New Rehabilitation Method for Inside Corrosion of Stiffeners with Hollow Shape
Kersten Latz; University of Technology, Germany
OBC-08-10 — Counter Measures against Fatigue Cracks on Orthotropic Bridge Decks of Tokyo Metropolitan Expressways
Kazuhiro Tsuno, Yasumiki Yamamoto and Nobuaki Takiguchi; Metropolitan Expressway Company Limited, Japan
OBC-08-11 — Hazard Classification for Orthotropic Plates and Sustainable Repair Method using Steel-Elastomer-Steel Sandwich (SPS)
Markus Feldmann, Achim Geßler, Gerhard Sedlacek, and Michael Paschen; Denmark

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MAINTENANCE AND REHABILITATION - 2 (15:45 - 17:00)
OBC-08-12 — A New Procedure and Device for the Examination of Stiffeners with Hollow Shape
OBC-08-13 — Redecking Issues For the Walt Whitman Bridge
Sante Camo, Qi Ye, Vijay Pandya and Richard Prior; USA

OBC-08-14 — Enhancing the fatigue strength of trough to deck plate joint in bridge decks using ultrasonic impact treatment (UIT)
Henk Kolstein, Robbert de Ridder and Frank van Dooren; Delft University of Technology, Netherlands

BANQUET KEYNOTE (18:30 - 20:00)
OBC-08-15 — Engineering - A Science or An Art?
Man-Chung Tang; TY Lin International, USA.

WEDNESDAY, AUGUST 27, 2008

FATIGUE - 1 (8:05 - 10:10)
OBC-08-16 — Effect of Fabrication Procedure on Fatigue Resistance of Rib-to-Deck Welded Joints in Steel Orthotropic Bridge Decks
Chia-Ming Uang, Hyoung-Bo Sim and Charles Sikorsky; Univ. of California, San Diego, La Jolla, California, USA

OBC-08-17 — Bending fatigue tests on trough to deck welded details of orthotropic steel deck
Samol Ya, Kentaro Yamada and Toshiyuki Ishikawa; Nagoya University, Nagoya, Japan

OBC-08-18 — Fatigue Behaviour of Cutout in Crossbeam for Closed Rib Orthotropic Deck
Donato Abruzzese, Antonio Grimaldi, Zhonghui Qian; University of Rome "Tor Vergata", ROME - Italy

OBC-08-19 — Fatigue test research on detail of orthotropic floor bridges in China
ZHANG Yuling, Xin Xuezhong, Liu Xiaoguang; China Academy of Railway Sciences, Beijing China; China

DESIGN – 2 (8:05 - 10:10)
OBC-08-38 — The five-point bending test: a way to the dimensioning of the asphalt layer on steel orthotropic decks
HOUEL Adrien and ARNAUD Laurent; CETE Lyon, France

OBC-08-42 — California’s New Orthotropic Steel Box Girder Suspension Bridges
Eugene Thimmhardt, California Department of Transportation, California, USA

OBC-08-43 — Orthotropic Deck Design and Fabrication for Fatigue - Some Recommendations from Research
Xiaohua H. Cheng, New Jersey Department of Transportation, New Jersey, USA; Jun Murakoshi, Public Works Research Institute, Japan
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FATIGUE - 2 (10:40 - 11:55)
OBC-08-20 — Fatigue Life Prediction of U-rib to Crossbeam Joints Using Fracture Mechanics Approach
Dong-Ho Choi, Ho-Sung Na, Hang-Yong Choi; Hanyang University, Seoul, 133-791, Korea
OBC-08-21 — Life time evaluation of orthotropic steel bridge decks
Koichi SUGIOKA; University of Canterbury, New Zealand
OBC-08-22 — Review of the fatigue behaviors and finite element analysis of orthotropic steel bridge decks
Chunsheng Wang, Yacheng Feng; Changan University, Shaaanxi; China

WEARING SURFACE - 1 (10:40 - 11:55)
OBC-08-23 — Research on Steel Fiber Reinforced Concrete Pavement on Orthotropic Steel Deck Jun
Murakoshi, Naoki Yanadori, and Takashi Ui; Public Works Research Institute, Tsukuba City, Japan
OBC-08-24 — Orthotropic Steel Bridge Decks in China with Epoxy Asphalt Pavements
Robert Gaul; ChemCo Systems, Inc. USA
OBC-08-25 — Reduction of traffic induced stress using reinforced high strength concrete
Henk Kolstein, Henk Sliedrecht; Delft University of Technology, The Netherlands

LUNCHEON KEYNOTE (11:55 - 13:30)
OBC-08-26 — Case Study on Fatigue Cracks in Orthotropic Steel Decks and Retrofitting Methods
Kentaro Yamada, Nagoya University, Nagoya, Japan

RESEARCH (13:30 - 15:10)
OBC-08-27 — The Effect of Stiffener distortion of orthotropic bridge decks on stress concentrations and load dispersal behaviour
Corneel Delesie, Hans De Backer, Philippe Van Bogaert; Ghent University, Belgium
OBC-08-28 — Experimental Study on Durability of Orthotropic Steel Decks and Deckplate Thickness
M. Ishio, T. Tamakoshi, J. Murakoshi, A. Kawabata; Ministry of land, Infrastructure & Transport, Japan
OBC-08-29 — Field Investigations and Measurements of Orthotropic Steel Decks to Draft Efficient Method of Stock Management
D. Uchida, S. Inokuchi, A. Kawabata, M. Ishio, and T. Tamakoshi; Ministry of land, Infrastructure & Transport, Japan
OBC-08-30 — Field Measurement and Development of an Experimental System for Fatigue-Cracking from Weld Roots between Deck Plate and U-rib in Orthotropic Steel Decks
S. Inokuchi, S. Kainuma, A. Kawabata and D. Uchida; Yokogawa Bridge Corporation, Japan;
WEARING SURFACE –2 (13:30 - 15:10)
OBC-08-31 — The Planning and Design of Gwangyang Suspension Bridge with Epoxy Asphalt in Korea
Sang-Hoon Shin, Pil-Jo Yu, Do-Jun Back, David H. Im; Structural Division of Yooshin Engineering Corp. Seoul, Korea
OBC-08-32 — Design of a deck surfacing for the longest cable-stayed bridge in the world: the Sutong Bridge
Yao Bo and Cheng Cheng; Southeast University, Nanjing, China
OBC-08-33 — IMPORTANCE OF INTERFACE LAYER ON BEHAVIOUR AND DURABILITY OF ORTHOTROPIC STEEL DECKS
OBC-08-34 — Concrete overlays to improve the fatigue life of movable orthotropic steel bridges

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WEARING SURFACE-3 (15:45 - 17:00)
Moderator:

OBC-08-35 — Application of the Reinforced High Performance Concrete Overlay on orthotropic steel bridge decks
Doug Zuberer; USA
OBC-08-36 — Application of the Reinforced High Performance Concrete Overlay on orthotropic steel bridge decks
Peter Buitelaar and René Braam, Contec ApS, Denmark
OBC-08-37 — Estimation of the wearing course influence on the orthotropic steel bridge deck behavior from simulations of the French five-point bending test
Simon Pouget, Cédric Sauzéat, Hervé Di Benedetto, François Olard; Université de Lyon, France

MAINTENANCE AND REHABILITATION - 2 (15:45 - 17:00)
Moderator: Jun Tsunabuchi, Mitsubishi, Corp., San Francisco, CA, USA
OBC-08-39 — Auckland Harbour Bridge Fatigue Assessment and Monitoring
Ian Billings, Michael Beamish,Philip Tindall; Beca Infrastructure Ltd, New Zealand
OBC-08-40 — Emergency Repairs to Union Pacific Railroad Bridge
Mansoor Ahsan; Bridgefarmer & Associates, Texas, USA
OBC-08-41 — Nondestructive Evaluation of Fatigue Cracks in Steel Bridges by Infrared Thermography
Yui IZUMI, Takahide SAKAGAMI, Shiro KUBO, and Takashi TAMAKOSH; Osaka University, Osaka Japan