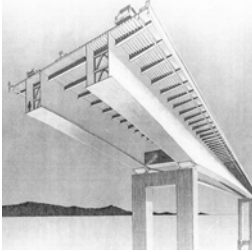




2008 INTERNATIONAL ORTHOTROPIC BRIDGE CONFERENCE

For updated information and to register, please visit www.orthotropic-bridge.org or asce@asce-sacto.org

August 25 to 29, 2008
INTERNATIONAL
ORTHOTROPIC BRIDGE
CONFERENCE
SACRAMENTO, CALIFORNIA, USA
Hosted by American Society of Civil
Engineers, Sacramento Section



The Orthotropic Bridge Tour includes the San Mateo Hayward, Golden Gate, and new San Francisco Oakland Bay Bridge Bridges

PROGRAM

TUESDAY, AUGUST 26, 2008

OPENING COMMENTS (8:15 - 8:30)



Steel-and-Light Doorway Bridge

DESIGN - 1 (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", Sofia, Bulgaria
- OBC-08-02 — Orthotropic Steel Deck Bridges in Korea
Dong-Ho Choi, Yong-Sik Kim and Hoon Yoo, Hanyang University, Seoul, Korea
- OBC-08-03—The New Steel-and-Light Doorway for the City of Padua,
Roberto Zanon and Francesco Caobianco, NET Engineering, Monselice, Italy



Gwangan Bridge in Korea

INTERMISSION - VENDOR ROOMS OPEN



Mr. Seim

DESIGN - 2 (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., New Jersey, USA
- OBC-08-05 — The Slope Deflection Method for Orthotropic 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 Pavement in China
Wei Xu and Xiao-ning Zhang, South China University of Technology, Guangzhou, 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 — Nondestructive Evaluation of Fatigue Cracks in Steel Bridges by Infrared Thermography
Yui Iauimi, Takahide Sakagami and Shiro Kuboand, Osaka University, Osaka, Japan; Takashi Tamakoshi, National Institute for Land & Infrastructure Management, Ibaraki, Japan
- OBC-08-09 — A New Rehabilitation Method for Inside Corrosion of Stiffeners with Hollow Shape
KERSTEN LATZ, WISMAR UNIVERSITY OF TECHNOLOGY, WISMAR, GERMANY
- OBC-08-10 — Counter Measures against Fatigue Cracks on Orthotropic Bridge Decks of Tokyo Metropolitan Expressways
Kazuhiro Tsuno and Yasumiki Yamamoto, Metropolitan Expressway Company Limited, Tokyo, Japan; Nobuaki Takiguchi, Japan Bridge Association, Tokyo, Japan
- OBC-08-11 — HAZARD CLASSIFICATION FOR ORTHOTROPIC PLATES AND SUSTAINABLE REPAIR METHOD USING STEEL-ELASTOMER-STEEL SANDWICH (SPS)
Markus Feldmann and Achim Geßler, RWTH Aachen University, Aachen, Germany; Gerhard Sedlacek, and Michael Paschen, Sedlacek & Partner, Aachen, Germany

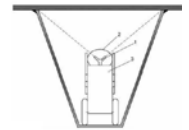


Rehabilitation by Latz

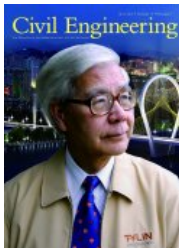
INTERMISSION - VENDOR ROOMS OPEN

MAINTENANCE AND REHABILITATION - 2 (15:45 - 17:00)

- OBC-08-12 — A New Procedure and Device for the Examination of Stiffeners with Hollow Shape
Jens Hölterhoff, Wismar University of Technology, Wismar, Germany
- OBC-08-13 — Redecking Issues For the Walt Whitman Bridge
Sante Camo, Qi Ye, Vijay Pandya and Richard Prior, Weidlinger Associates, Inc., New York, USA
- OBC-08-14 — Enhancing the Fatigue Strength of Trough to Deck Plate Joint in Bridge Decks Using Ultrasonic Impact Treatment (UIT)
Henk Kolstein, Delft University of Technology, Delft, Netherlands; Robbert de Ridder, Applied Ultrasonics Europe, Netherlands; Frank van Dooren; Delft University of Technology, Delft, Netherlands



Device by
Holterhoff



Dr. Tang

BANQUET KEYNOTE (18:30 - 20:00)

- OBC-08-15 — Engineering - A Science or An Art?
Man-Chung Tang, TY Lin International, California, USA

WEDNESDAY, AUGUST 27, 2008

FATIGUE - 1 (8:30 - 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, Univ. of California, San Diego, California, USA; Charles Sikorsky, California Department of Transportation, 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 Deck Bridges in China
Yuling Zhang, China Academy of Railway Sciences, Beijing, China; Xuezhong Xin, China Railway Ministry, Beijing, China;
Xiaoguang Liu, China Academy of Railway Sciences, Beijing, China

DESIGN – 3 (8:30 - 10:10)

OBC-08-38 — The Five-Point Bending Test: A Way to the Dimensioning of the Asphalt Layer on Steel Orthotropic Decks

Adrien Houel, CETE Lyon, Bron Cedex, France; Laurent Arnaud, ENTPE, Vaulx-en-Velin cedex, France

OBC-08-41 — California's New Orthotropic Steel Box Girder Suspension Bridges

Eugene Thimhardy, California Department of Transportation, California, USA

OBC-08-42 — 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, Tsukuba City, Japan



CA Bridge by Thimhardy

INTERMISSION - VENDOR ROOMS OPEN

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, Hanyang University, Seoul, Korea; Hang-Yong Choi, Seoyeong Engineering Co., Ltd, Seoul, Korea

OBC-08-21 — Life Time Evaluation of Orthotropic Steel Bridge Decks

Koichi Sugioka, University of Canterbury, Christchurch, 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, Shaanxi; 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., California, USA

OBC-08-25 — Reduction of Traffic Induced Stress Using Reinforced High Strength Concrete

Henk Kolstein, Delft University of Technology, Delft, Netherlands; Henk Sliedrecht, Ministry of Transport, Netherlands

LUNCHEON KEYNOTE (11:55 - 13:30)

OBC-08-26 — Review of Orthotropic Steel Deck Bridges and Some Fatigue Cracks and Retrofitting Measures in Japan

Kentarō Yamada, Nagoya University, Nagoya, Japan



Dr. Yamada

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 and Philippe Van Bogaert, Ghent University, Gent, Belgium

OBC-08-28 — Experimental Study on Durability of Orthotropic Steel Decks and Deckplate Thickness

M. Ishio and T. Tamakoshi, National Institute for Land & Infrastructure Management, Ibaraki, Japan; J. Murakoshi, Public Works Research Institute, Ibaraki, Japan; A. Kawabata, JFE Engineering Corporation, Yokohama, Japan

OBC-08-29 — Field Investigations and Measurements of Orthotropic Steel Decks to Draft Efficient Method of Stock Management

D. Uchida, Mitsui Engineering & Shipbuilding Co., Ltd., Tokyo, Japan; S. Inokuchi, Yokogawa Bridge Corporation, Chiba, Japan; A. Kawabata, JFE Engineering Corporation, Yokohama, Japan; M. Ishio, and T. Tamakoshi, National Institute for Land & Infrastructure Management, Ibaraki 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, Yokogawa Bridge Corporation, Chiba, Japan; S. Kainuma, Kyushu University, Fukuoka, Japan; A. Kawabata, JFE Engineering Corporation, Yokohama, Japan; D. Uchida, Mitsui Engineering & Shipbuilding Co., Ltd., Tokyo, Japan

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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, Yooshin Engineering Corp. Seoul, Korea; David H. Im; Cablebridge, 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 Behavior and Durability of Orthotropic Steel Decks

Sofia Teixeira de Freitas, M.H. Kolstein and F.S.K. Bijlaard, Delft University of Technology, Delft, Netherlands

OBC-08-34 — Concrete Overlays to Improve the Fatigue Life of Movable Orthotropic Steel Bridges

C.R. Braam, M.H. Kolstein and A. Romeijn, Delft University of Technology, Delft, Netherlands; P. Buitelaar, Contec ApS, Højbjerg, Denmark



Sutong Bridge - Bo & Chen

INTERMISSION - VENDOR ROOMS OPEN

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

OBC-08-35 — Alternative Waterproof System and Wearing Course on Orthotropic Bridge Decks and Approaches

Doug Zuberer, Chase Construction Products, Massachusetts, USA

OBC-08-36 — Application of the Reinforced High Performance Concrete Overlay on Orthotropic Steel Bridge Decks

Peter Buitelaar, Contec ApS, Højbjerg, Denmark; René Braam, Delft University of Technology, Delft, Netherlands;

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 and Hervé Di Benedetto, Université de Lyon, aulx-en-Velin, France; François Olard; EIFFAGE Travaux Publics, Corbas Cedex, France

Olard; EIFFAGE Travaux Publics, Corbas Cedex, France

MAINTENANCE AND REHABILITATION - 3 (15:45 - 17:00)

OBC-08-39 — Auckland Harbour Bridge Fatigue Assessment and Monitoring

Ian Billings and Michael Beamish, Beca Infrastructure Ltd, Auckland, New Zealand; Philip Tindall,

Hyder Consulting Ltd, London, UK

OBC-08-40 — Emergency Repairs to Union Pacific Railroad Bridge

Mansoor Ahsan; Bridgefarmer & Associates, Texas, USA



UPRR Bridge by Ashan

OTHER KEY ASCE OBC 2008 CONFERENCE EVENTS

August 25, 2008	Monday [8 hours] Welding Inspection of Orthotropic Bridges Workshop
August 28, 2008	Thurs [8 hours] Intro to new FHWA Orthotropic Bridge Manual [free to attendees]
August 29, 2008	Friday [8 hours] LFRD Highway Bridge Design Workshop
August 30, 2008	Saturday Orthotropic Bridge Tour [approximately 8 am to 9 pm]