BEA 2006: 5th International Cable-Supported Bridge Operators' Conference (ICSBOC) & LRFD Workshop
August 28-29, at the Crowne Plaza Times Square Hotel in New York City
PRELIMINARY CONFERENCE PROGRAM

DESIGN, CONSTRUCTION & OPERATION

Stonecutters Bridge - designing for operations
M. Carter and N. Hussain, Ove Arup & Partners, Hong Kong

Second bridge over the Orinoco - design, construction and operation K. J. Humpf, Leonhardt, Andrä und Partner GmbH, Germany

A construction solution for self anchored suspension bridges
R. A. Lawrie and H. Huang, Lawrie & Associates, LLC, USA

INSPECTION & MAINTENANCE

Forth Road Bridge - maintenance challenges A. S. Andrew, and B. R. Colford, Forth Estuary Transport Authority, Scotland

Inspection and monitoring of cable stayed structures - design, implementation & performance G. Hovhannessian, ADVITAM, France and J. Stieb, ADVITAM, USA

Repainting of Seto-Ohashi Bridge for increase of durability
K. Kawaguchi, Y. Nagao, and T. Sugimoto, Honshu-Shikoku Bridge Expressway Co., Ltd, Japan

INSTRUMENTATION, TESTING & MONITORING

Instrumentation and monitoring of critical structural elements unique to suspension bridges
G. Hovhanessian and E. Laurent, ADVITAM, France

Non-destructive testing of suspender ropes with magnetostriction M. S. Higgins, Pure Technologies, USA

Wire test results for three suspension bridge cables
R. M. Mayrbaurl, Weidlinger Associates, Inc., USA

CABLE STUDIES & PLANNING

Planning and engineering for the future: capacity increase and cable replacement J. Lorentzson, TBTA, P. Nietzschmann, Parsons Brinckerhoff Quade & Douglas, Inc., G. Fanjiang, Weidlinger Associates, and C. Gagnon, Ammann & Whitney, USA

Bear Mountain Bridge cable reinforcement
W. A. Moreau, New York State Bridge Authority Highland, R. Dragan, and P. Sluszka, Ammann & Whitney, USA

Plan and design of Jeokgeum Grand Bridge
S. Y. Park, M. J. Lee, Yooshin Engineering Corp., and J.H. Kim, DAELIM Industrial Co. Ltd., South Korea

REHABILITATION & PREVENTIVE TECHNIQUES

Rehabilitation of the lower roadway of the Manhattan Bridge H. D. Perahia, J. Patel, H. Ahmed, and A. Razzaq, New York City Department of Transportation, USA

Forth Road Bridge – first internal inspection, strength evaluation, acoustic monitoring and dehumidification of the main cables
B. R. Colford, Forth Estuary Transport Authority, Scotland, C. P. Cocksedge, Faber Maunsell Consulting Engineers, England

Prevention of main cable corrosion by dehumidification
M. L. Bloomstine and O. Sørensen, COWI A/S, Denmark

Bosporus Bridge cable hanger plate replacement
C. Yilmaz, A. Turer and A. Caner, Middle East Technical University, Civil Engineering Dept., Turkey

Dehumidification of George Washington Bridge anchorage chambers R. Sansone, Ammann & Whitney, Consulting Engineers, PC, J. R. Jenal, BJLJ Engineers & Architects, PC, A. Minhas and S. Sloan, The Port Authority of NY & NJ, USA

WIRE ROPE & STRAND APPLICATIONS

Electromagnetic inspection of wire ropes - vertical lift bridges D. R. Hall, Acuren Inspection, Inc., USA

Wire rope and strand assemblies in bridge applications
T. W. Klein, Wire Rope Corporation of America, Inc., USA

Epoxy coated & filled prestressing steel strand cables
Y. Shinichi, Sumiden Wire Products Corporation, USA

FATIGUE & VIBRATIONS PERFORMANCE

Cable vibrations at Dubrovnik Bridge
Z. Savor, J. Radic, and G. Hrelja, University of Zagreb, Croatia

Mitigation and monitoring of cable vibrations for cable stayed bridges D. M. Barrett, Modjeski and Masters, Inc., USA

Monte Carlo simulation of cable fatigue stresses in two cable-stayed bridges H. Tabatabai and C. W. Lee, University of Wisconsin-Milwaukee, USA

SERVICE LIFE & FRACTURE BEHAVIOR

Wire fractures in locked coil cables K. Gjerding-Smith, Consulting Engineers Haug og Blom-Bakke AS, R. Johnsen, NTNU, H. I. Lange, SINTEF, B. H. Leinum, Det Norske Veritas, G. Gundersen, B. Isaksen and G. Næ rum, Norway

Fracture analysis of the Mid-Hudson Bridge cable wire
K. Mahmoud, Bridge Technology Consulting, PLLC, and W. J. Moreau, New York State Bridge Authority, USA

A conceptual model of bridge service life
J. Chang, MTA Bridges and Tunnels and M. J. Garvin, Virginia Polytechnic and State University, USA

A monumental bridge with a problem left by design
A. B. Mehrabi, Bridge Engineering Solutions, Inc., USA

AESTHETIC & HISTORIC BRIDGES

Aesthetics in Cable supported bridges
J. J. Arenas, Arenas & Asociados, Spain

The Quinnipiac / Pearl Harbor Memorial Bridge: aesthetic opportunities for extradosed bridges T. Piotrowski and J. Fox, H2L2 Architects/Planners, LLP, USA

Roebling's railway suspension bridge over Niagara Gorge
K. Gandhi, Gandhi Engineering, Inc., USA

INNOVATIVE BRIDGE TECHNOLOGY

A new technology for long-span suspension bridges
B. Lecinq, Freyssinet, USA

Totally encapsulated suspension bridge technology
B. Lecinq, Freyssinet, USA

High tech cable stayed bridge with appropriate historic appearance W. Jay Rohleder, Jr., FIGG, USA

Efficient deck systems for cable stayed bridges
Sena Kumarasena, HNTB, USA

10 Years of experience with CFRP stay cables Urs Meier, EMPA Swiss Federal Laboratories for Materials Research, Switzerland

Innovative cable supported pedestrian bridges
Ted Zoli, HNTB, USA

STRENGTH EVALUATION OF CABLES

Evaluation of the remaining strength of bridge cables
K. Mahmoud, Bridge Technology Consulting, PLLC, USA

A rational method for determining allowable stress in stay cables Ray McCabe, HNTB, USA

Cradle system provides flexibility and durability
W. Denney Pate, FIGG, USA

LRFD WORKSHOP PRELIMINARY PROGRAM - AUGUST 29, 2006

Specifications and guidelines for the design of curved steel girder bridges Dr. John M. Kulicki, Modjeski and Masters, Inc., USA

The past, present and future of AASHTO LRFD
Dr. John M. Kulicki, Modjeski and Masters, Inc., USA

Summary of loads and load combination
Professor Dennis R. Mertz, University of Delaware, USA

LRFD concrete bridge design example
Professor Dennis R. Mertz, University of Delaware, USA

Introduction to load and resistance factor rating (LRFR).
Professor Dennis R. Mertz, University of Delaware, USA

Horizontally curved steel bridge design example
Dr. Wagdy G. Wassef, Modjeski and Masters, Inc., USA

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