

FHWA Orthotropic Bridge Manual Workshop
Orthotropic Bridge Conference 2008
Thursday August 28, 2008

Background:

The FHWA has initiated a project to publish the “Manual for the Design, Construction, and Maintenance of Orthotropic Steel Bridges.” The target audience includes engineers, owners, contractors, fabricators, and researchers of highway bridge structures. The Manual attempts to gather and summarize worldwide knowledge and technology related to orthotropic bridges, and put it into context with U.S. design and construction practice. The project types to be covered in this Manual are long-span bridges such cable-stayed and box girder, bridge redecking, and decks for the more common “workhorse” girder bridge. For the U.S. to realize the potential economic benefits of orthotropic bridges on a national scale, a modern Manual based on state-of-the-art knowledge is needed. This Manual will promote standardization and economy in design with the goal of improving longevity of such bridges. The Manual is approximately 50% complete.

Workshop Objective:

The workshop aims to bring together a diverse group of worldwide experts on the subject of orthotropic bridges to report on the progress of the Manual and to solicit feedback from the audience on various challenges that are faced by orthotropic bridge technology. The workshop will be delivered in the format of chapter-by-chapter presentations from the primary authors, with time provided for open discussion.

Preliminary Agenda:

Topic	Speaker	Affiliation	Time	Begin	End
i. Opening Remarks	Myint Lwin/Vasant Mistry	FHWA	0:10	8:00 AM	8:10 AM
ii. CA Bridge Manual Chapter 13	Alfred Mangus	Caltrans	0:10	8:10 AM	8:20 AM
CH 1. INTRO AND SCOPE OF MANUAL	Brian Kozy	HDR Engineering, Inc	0:10	8:20 AM	8:30 AM
CH 2. TYPICAL DECK SECTIONS	Brian Kozy	HDR Engineering, Inc	0:10	8:30 AM	8:40 AM
CH 3. BRIDGE APPLICATIONS	Brian Kozy	HDR Engineering, Inc	0:10	8:40 AM	8:50 AM
<i>Open Discussion</i>			0:10	8:50 AM	9:00 AM
CH 4. STRUCTURAL BEHAVIOR	Sante Camo	Weidlinger Assoc, Inc.	0:30	9:00 AM	9:30 AM
<i>Open Discussion</i>			0:10	9:30 AM	9:40 AM
CH 5. DESIGN	Dennis Mertz/Rob Connor	Univ. of Delaware	0:40	9:40 AM	10:20 AM
<i>Open Discussion</i>		Purdue Univ.	0:10	10:20 AM	10:30 AM
CH 6. DETAILING	Sante Camo	Weidlinger Assoc, Inc.	0:30	10:30 AM	11:00 AM
<i>Open Discussion</i>			0:10	11:00 AM	11:10 AM
CH 7. CONSTRUCTION	John Yadlosky/Dave Mcquaid	HDR Engineering, Inc	0:40	11:10 AM	11:50 AM
<i>Open Discussion</i>		DL Mcquaid and Assoc.	0:10	11:50 AM	12:00 PM
LUNCHBREAK			1:00	12:00 PM	1:00 PM
CH 8. MAINTENANCE AND EVALUATION	Brian Kozy	HDR Engineering, Inc	0:15	1:00 PM	1:15 PM
<i>Open Discussion</i>			0:10	1:15 PM	1:25 PM
CH 9. WEARING SURFACES	Vellore Gopalaratnam	Univ. of Missouri	0:30	1:25 PM	1:55 PM
<i>Open Discussion</i>			0:10	1:55 PM	2:05 PM
CH 10. ACCEPTANCE TESTING	Rob Connor	Purdue Univ.	0:15	2:05 PM	2:20 PM
<i>Open Discussion</i>			0:10	2:20 PM	2:30 PM
CH 11. INNOVATIONS	Brian Kozy	HDR Engineering, Inc	0:10	2:30 PM	2:40 PM
<i>Open Discussion</i>			0:05	2:40 PM	2:45 PM
CH 12. DESIGN EXAMPLES	Brian Kozy	HDR Engineering, Inc	0:30	2:45 PM	3:15 PM
<i>Open Discussion</i>			0:10	3:15 PM	3:25 PM
App. GLOSSARY AND APPENDICES	Brian Kozy	HDR Engineering, Inc	0:05	3:25 PM	3:30 PM
<i>Final Comments</i>			0:30	3:30 PM	4:00 PM