

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 |