

"An International Workshop on Orthotropic Deck Design and Construction"

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www.orthotropic-bridge.org

Facilitated by

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The primary goal of this workshop will be a detailed discussion on the second or next generation of Orthotropic steel deck bridges, plus "new topics" [see table below]. These are global topics that have value to bridge owners, educators, designers, fabricators, suppliers, and contractors.

DISCUSSION TOPICS:

Eight one-hour topics for discussion are listed below

Topic 1: Code details using Canadian, British Standard, Eurocode, and Asian design methods.

Topic 2: High Performance Steel & Toughness Requirement

Topic 3: Fatigue design per the code using Canadian, British Standard, Eurocode, and Asian design methods

Topic 4: Standard Details per the code using Canadian, British Standard, Eurocode, and Asian design methods

Topic 5: "Mega" or "Signature Bridges from Europe; Africa and Asia are selected to demonstrate the complete range of all types such as the world's largest cable-stayed, suspension, double swing bridge; the floating movable bridge. "ABC" Process = "Accelerated Bridge Construction"

Topic 6: Box Girder Design Issues per the code using Canadian, British Standard, Eurocode, and Asian design methods.

Topic 7: Wearing Surfaces - A thicker steel deck will allow wearing surfaces to be installed 2 to 3 times for 100-year life bridges. Other wearing surface topics will be covered.

Topic 8: Fatigue Research - Focus on University activities. Dr. Fisher's rib to diaphragm detail is expected to result in 100-year life bridge.

Topic 9: Rehabilitation of Existing Bridges with Deck Panels.

#	TOPICS	NORTH AMERICA [15 minutes] by	EUROPE Euro-code [15 minutes] by	ASIA China, Japan, & Korea [15 minutes] by	Moderated Discussion [15 minutes]
1	Orthotropic Code	King [British Standard & Canadian]	Prof Latz	Seim [China]	Dr. Duan
2	High Performance Steel & Toughness Requirement	None	None	Seog [Korea] 30 minutes	Dr. Duan
3	Fatigue Per Code	King [British Standard & Canadian]	Bittermann	Seim [China]	Mangus
4	Standard Details	King [British Standard & Canadian]	Bittermann	Seim [China]	Dr. Duan
5	Building <i>Mega</i> Bridges – “ABC “	Mangus [USA & Canadian]	Mangus [European]	King [StoneCutters] China	Sehgal
	Lunch on your own	Lunch	Lunch	Lunch	Lunch
6	Box Girder Issues	King	King	None	Sehgal
7	Wearing Surfaces	Carter	Carter	Seim [China]	Mangus
8	Fatigue Research	Tsakopoulos	Bittermann	x	Sehgal
9	Rehabilitation of existing bridges	Tsakopoulos [Northeast Susp. Bridges]	Mangus	Mangus	Dr. Duan

Invited Participants

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