



Workshop

July 5, 2011

Materials for Footbridges - Recent Achievements

Scope

Traditional domination of structural steel and cement concrete in bridge structures is undeniable. However constant progress in development in structural design gives us several possibilities to consider modern materials recently predicted to the space and marine structures.

Industrial production of several unique materials makes them available on the common market. These phenomena coupled with much more reasonable price open new fields for wide range of advanced products. New fiber composites, modern metal alloys, chemically and structurally modified wood, structural glass and polymer concrete seem to be attractive alternative to traditional materials.

This Workshop, with the main theme '**Materials for Footbridges - Recent Achievements**' will handle major outcomes in application of modern material solutions for footbridges.

Workshop topics

- Timber solution for footbridges
- Aluminum alloy in bridges
- Steel wires and tension rods
- Fiber composites - structural solutions
- Fiber composites - wires in structures
- Protective coating systems used on footbridges
- Glass for footbridges
- Footbridge analysis - numerical approach

Detailed programme

Building	Start	End	5 th JULY (Tuesday)		
A-1	09:00	10:00	Registration (building A-1, main hall)		
	10:00	11:10	Workshop session 1		
	10:00	10:10	1	Krzysztof ółowski, <i>Gda sk University of Technology</i>	WELCOME
	10:10	10:40	2	Henryk Zobel, Thakaa Alkhafaji, <i>Warsaw University of Technology</i>	TIMBER AS A STRUCTURAL MATERIAL
	10:40	11:10	3	Tomasz Siwowski, <i>Rzeszów University of Technology</i>	ALUMINIUM ALLOYS - AN EXCELLENT MATERIAL FOR FOOTBRIDGES
	11:10	11:40	Coffee-break		
	11:40	13:15	Workshop session 2		
	11:40	12:10	1	Erik Mellier, <i>Freyssinet International</i>	HIGH PERFORMANCE TECHNOLOGIES FOR CABLE SUPPORTED STRUCTURES
	12:10	12:25	2	Andrzej Berger, <i>Mosty Gda sk</i>	CABLES IN FOOTBRIDGES - POLISH IMPLEMENTATIONS
	12:25	12:55	3	Morten Gantriis Sørensen, <i>Fiberline Composites</i>	FRP BRIDGE DECKS - LIGHT AND DURABLE SOLUTIONS
	12:55	13:15	4	Monika Milek, <i>Chemical Global</i>	PROTECTIVE COATING SYSTEMS USED ON FOOTBRIDGES
	13:15	13:45	Discussion		
	13:45	15:00	Lunch		
	15:00	16:20	Workshop session 3		
	15:00	15:20	1	Andreas Keil, <i>Schlaich Bergermann und Partner</i>	GLASS FOR FOOTBRIDGES - A SUBTLE TUBE IN LISBON
	15:20	16:20	2	Jürgen Bellmann, <i>SOFiSTiK</i>	FOOTBRIDGE ANALYSIS. CONSTRUCTION STAGES AND NON LINEAR EFFECTS
16:20	17:00	General discussion			
A-1	19:30	22:00	Welcome reception		