



PIARC COMMITTEE TC4.4: Bridges & Related Structures

Chairman: Rafael Astudillo

- Ministerio de Fomento. CEDEX
- Director del Laboratorio Central de Estructuras y Materiales
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CEDEX



PIARC COMMITTEE TC4.4: Bridges & Related Structures



14:00	10'	Summary of TC4.4 activity (R. Astudillo, Spain)	
14:10	45'	Presentation of the technical work of the Committee	Increasing durability in the phase of design and construction. (B. Hayes, UK)
14:25			Increasing durability and lifetime of existing bridges. (J. Bjerrum, Denmark)
14:40			Cost effective bridge management (P. Graham, Australia)
14:55	15'	Discussion	
15:10	20	Future Activity	
15:30	30	Coffee break	
16:00	90'	Historic Bridges	Management of historic bridges. (J. Lämsä, Finland)
16:15			Bridge owner's benefits from probability-based management of old bridges. (J. Bjerrum, Denmark)
16:30			Virginia Department of Transportation's Historic Bridge Maintenance Plan. (M.T. Kerley, USA)
16:45			Analysis of historical bridges using the mixed discrete element method.(G. Antunes Ferreira, Portugal)
17:00			Maintenance of Road Bridges in Japan. (Y. Morita et alt. Japan)
17:15			Increase in the durability and useful life of existing bridges: Guidelines for Design, Construction and Maintenance. (M. Lieggio et alt, Italy)
17:30		Closing	



PIARC COMMITTEE TC4.4: Bridges & Related Structures

- Membership
- Tasks
- Meetings
- Reports
- Comments



MEMBERSHIP

- **Members**
 - 57 Current members
 - 21 Corresponding members
 - 37 Countries
- **Structure**
 - TC Chair
 - Task Chairs
 - English & French Secretaries
 - Others: Glosary & links with other Committees





PIARC COMMITTEE TC4.4: Bridges & Related Structures

- **Chairman:** ASTUDILLO, Rafael (Spain)
- **English Secretary:** KONSTANTINIDIS, Dimitris (Greece)
- **French Secretary:** IMBERTY, Florent (France)
- **Tasks Chairmen:**
HAYES, Brian (United Kingdom)
BJERRUM, John (Denmark)
GRAHAM, Peter (Australia)



SELECTION OF TASKS

Terms of reference	Proposals by previous Bridges Committee	Strategic plan
<ul style="list-style-type: none">■ Bridge management■ Durability■ Safety & risk management■ Structural condition■ Operating methods	<ul style="list-style-type: none">■ Investigation methods■ Durability■ Finance for maintenance■ Safety■ Equipment■ Historical bridges■ Whole life cost	<ul style="list-style-type: none">■ Increasing the durability and safety of structures■ Evaluating the condition of structures in connection with asset management methods■ Taking into account environmental and cultural aspects



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TASKS

- ***TASK 1: Design and Construction for Durability***
- ***TASK 2: Increase of Durability or lifetime in existing bridges***
- ***TASK 3: Approaches to Cost Effective Bridge Management***

+ Historical bridges



TC4.4 MEETINGS

2004	Paris	Madrid
2005	Venice	Thesaloniki
2006	Budapest	Québec
2007	Vienna	Nagoya
	Paris	





Deliverables

- *Reports*
- *Session devoted to historical bridges*