

Life-Cycle Civil Engineering at Politecnico di Milano

Castigliano Room, Politecnico di Milano

18 June, 2008

Post-Symposium Workshop organized by:

Fabio Biondini & Pier Giorgio Malerba



Inquiries regarding this event should be sent to:

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For information about IALCCE and IALCCE'08 please visit:

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POLITECNICO
DI MILANO



iaLcCe
International Association for
Life-Cycle Civil Engineering

Motivation and Objectives

In recent years relevant advances have been accomplished in the fields of modeling, analysis, design, monitoring, maintenance and rehabilitation of deteriorating civil engineering systems. Nowadays these developments are perceived to be at the heart of civil engineering, which is currently undergoing a transition towards a life-cycle oriented design philosophy. For this reason, after a series of International Workshops on Life-Cycle Cost Analysis and Design of Civil Infrastructure Systems held in Honolulu, Hawaii, USA (LCC1, August 7-8, 2000), Ube, Yamaguchi, Japan (LCC2, September 27-29, 2001), Lausanne, Switzerland (LCC3, March 24-26, 2003), Cocoa Beach, Florida, USA (LCC4, May 8-11, 2005), and Seoul, Korea (LCC5, October 16-18, 2006), it was decided to create the International Association for Life-Cycle Civil Engineering (IALCCE, <http://www.ialcce.org>).

IALCCE was founded in October 2006. This Association covers all aspects of life-cycle assessment, design, maintenance, rehabilitation and monitoring of civil engineering systems. The mission of the Association is to become the premier international organization for the advancement of the state-of-the-art in the field of life-cycle civil engineering. The objective of the Association is to promote international cooperation in the field of life-cycle civil engineering for the purpose of enhancing the welfare of society.

IALCCE has created fertile grounds for the stimulation and promotion of research in the field of life-cycle civil engineering. It was therefore decided to bring together the main advances in the field of life-cycle engineering and related topics at the First International Symposium on Life-Cycle Civil Engineering (IALCCE'08, <http://www.ialcce08.org>), held in Villa Monastero, Varenna, Lake Como, Italy, June 10-14, 2008.

IALCCE'08 has been organized on behalf of IALCCE under the auspices of Politecnico di Milano. The interest of the international civil engineering community in the activities covered by IALCCE has been confirmed by the significant response to the IALCCE'08 call for papers. In fact, more than 200 abstracts were received, and about 70% of them were selected for publication as full papers and presentation at the Symposium. The Proceedings of IALCCE'08 has been published by Taylor&Francis and consist of a book and a CD-ROM containing 150 papers, including eight keynote papers and 142 technical contributions from 28 countries.

The aim of this Post-Symposium Workshop is to provide a forum for both academic and professional communities to discuss the role of IALCCE, the achievements of IALCCE'08, and the on going and future research in the field of life-cycle civil engineering and related topics. The meeting intends to improve the exchange between theory and practice, by reporting in field experiences and recurrent and/or topical problems, which need suggestions and/or solutions from the research. Attention will be given to the management aspects, which can be improved through a life-cycle oriented design approach and through the planning optimization of the maintenance interventions.

Program

14:15-14:30 **Welcome to the Participants**

Vincenzo Petrini, *Politecnico di Milano*
Head of the Department of Structural Engineering

14:30-15:30 **The Transition of Civil Engineering Towards a Life-Cycle Design Philosophy**

Pier Giorgio Malerba, *Politecnico di Milano*
Vice-Head of the Department of Structural Engineering

The International Association for Life-Cycle Civil Engineering (IALCCE)

Dan M. Frangopol, *Lehigh University, PA, USA*
President of IALCCE and Co-Chair of IALCCE'08

The First International Symposium on Life-Cycle Civil Engineering (IALCCE'08)

Fabio Biondini, *Politecnico di Milano*
Board Member of IALCCE and Co-Chair of IALCCE'08

15:30-16:00 **Coffee Break**

16:00-18:00 **Research and Applications in Life-Cycle Civil Engineering**

Moderator
Pier Giorgio Malerba, *Politecnico di Milano*

Delegates

Antonio Acerbo, *Comune di Milano, Milan*
Fabio Biondini, *Politecnico di Milano*
Manuela Chiorboli, *Metropolitana Milanese, Milan*
Andrea Del Grosso, *D'Appolonia, Genoa*
Claudio De Lorenzo, *ANAS, Milan*
Dan M. Frangopol, *Lehigh University, PA, USA*
Guido Furlanetto, *Spea Ingegneria Europea, Milan*
Ginesio Lia, *RFI, Dir. Comp. Infrastrutture, Turin*
Michele Di Mercione, *RFI, Dir. Comp. Infrastrutture, Milan*
Davide Oggionni, *SINECO, Milan*
Giordano Paracchini, *SEA Aeroporti, Milan*
Nick O'Riordan, *Arup Italia, Rome*
Gianpaolo Rosati, *Politecnico di Milano*

All interventions are open for a free discussion.

18:00-18:30 **Closing Discussion**