

Venue

IALCCE'08 will be held at **Villa Monastero**, an ancient patrician abode located in Varenna, a picturesque medieval village in a central position on the east coast of Lake Como. Directly located on the lake shore, the villa is surrounded by a beautiful botanical garden, also decorated with architectural elements like tortile columns and balustrades facing the lake. Since 1963 the villa is an *international cultural and scientific centre*.



The **Congress Centre** is harmoniously included in the villa by preserving the original rooms with their own furnishings. The principal conference room is called *Fermi Room* in the honor of the famous Nobel Prize winner who held lessons in Villa Monastero itself. Smaller rooms, containing antique furniture, precious tapestries and unique books, offer wonderful lake views.

Social Program

A welcome reception, concert, excursion, and banquet will be held during the Symposium. Detailed information will be provided on the Symposium website (www.ialcce08.org).

Accompanying Persons

The program for accompanying persons will include attendance of welcome reception, concert, and banquet. Excursions on Lake Como and nearby attractions will be also organized. They will include day trips by ferry boat to visit the magnificent ancient villas and amazing gardens situated along the shore of Lake Como. For complete information and bookings, please refer to the Symposium website (www.ialcce08.org).

Accommodation

There are several hotels in Varenna and nearby villages on Lake Como. Special rates will be offered to participants from hotels close to the Symposium venue. To benefit from this possibility it is strongly recommended to reserve as soon as possible. For further details, please visit the Symposium website (www.ialcce08.org).

Transportation

Varenna can be reached by car or by train in about one hour from Milan. Detailed information on the easiest itineraries, as well as on the most convenient transportation systems from the nearest international airports (Malpensa, Linate, Orio al Serio, Lugano) will be provided on the Symposium website (www.ialcce08.org).

Last update: July 2007

Co-Sponsored by:

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| ACI | American Concrete Institute |
| AIACAP | Associazione Italiana Calcestruzzo Armato e Precompresso <i>Italian Association of R/C and P/C Designers</i> |
| AIOM | Associazione di Ingegneria Offshore e Marina <i>Italian Association of Offshore and Marine Engineering</i> |
| ATLSS | Center for Advanced Technology for Large Structural Systems, Lehigh University, Bethlehem, PA, USA |
| CTE | Collegio dei Tecnici dell'Edilizia <i>Italian Society of Building Engineers</i> |
| IABMAS | International Association for Bridge Maintenance and Safety |
| SEI-ASCE | Structural Engineering Institute <i>American Society of Civil Engineers</i> |
| TYLI | T. Y. Lin International, San Francisco, CA, USA |
| UPC | Universitat Politècnica de Catalunya, Barcelona, Spain |



Inquiries regarding the Symposium should be sent to:

IALCCE'08 Secretariat

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For detailed information please visit the Symposium website:

<http://www.ialcce08.org>

IALCCE'08

First International Symposium on Life-Cycle Civil Engineering

Varenna, Lake Como, Italy
June 11-14, 2008

<http://www.ialcce08.org>

Call for Papers



POLITECNICO
DI MILANO



International Association for
Life-Cycle Civil Engineering
<http://www.ialcce.org>

Symposium Chairs

Fabio Biondini

Politecnico di Milano, Milan, Italy

Dan M. Frangopol

Lehigh University, Bethlehem, PA, USA

IALCCE'08

The **First International Symposium on Life-Cycle Civil Engineering** (IALCCE'08) is organized on behalf of the International Association for Life-Cycle Civil Engineering (IALCCE) under the auspices of Politecnico di Milano. The Symposium will be held in Varenna, Lake Como, Italy, on June 11-14, 2008 (www.ialcce08.org).

IALCCE

IALCCE is a very young Association founded in October 2006. This Association will cover all aspects of life-cycle assessment, design, maintenance, rehabilitation and monitoring of civil engineering systems. 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 (www.ialcce.org).

Aim of the Symposium

The aim of IALCCE'08 is to bring together all the very best work that has been done in the field of life-cycle civil engineering and related topics, to stimulate and promote research into this field, and to bridge the gap between theory and practice.

Delegates

The Symposium will be of interest to researchers, representatives from all sections of civil engineering, and engineers working with engineering companies, consultants, contractors, and local authorities interested in all aspects of life-cycle civil engineering.

Symposium Topics

The state of the art as well as emerging concepts and innovative applications in the field of life-cycle civil engineering will be considered. Specifically, IALCCE'08 will focus on the following topics:

LIFE-CYCLE DAMAGING PROCESSES

Aging of Structures
Deterioration Modeling
Durable Materials
Earthquake and Accidental Loadings
Fatigue and Damage
Fire and High Temperatures
Marine and Severe Environments
Structure-Environment Interaction

LIFE-CYCLE MONITORING, MAINTENANCE, AND REHABILITATION

Damage Identification
Field Testing
Health Monitoring
Inspection and Evaluation
Maintenance Strategies
Rehabilitation Techniques
Strengthening and Repair
Structural Integrity

LIFE-CYCLE COST OF STRUCTURES AND INFRASTRUCTURES

Decision Making Processes
Human Factors in Life-Cycle Engineering
Life-Cycle Cost Models
Project Management
Risk-Lifetime Analysis and Optimization
Whole Life Costing

LIFE-CYCLE ASSESSMENT AND DESIGN

Design for Durability
Failure Analysis and Risk Prevention
Lifetime Structural Optimization
Long-term Performance Analysis
Performance Based Design
Service Life Prediction
Time-variant Reliability
Uncertainty Modeling

LIFE-CYCLE PERFORMANCE OF SPECIAL STRUCTURES

Bridges and Viaducts
High-rise Buildings
Hydraulic Structures
Off-Shore Structures
Precast Systems
Roof Systems and Hangars
Runway and Highway Pavements
Tunnels and Underground Structures

LIFE-CYCLE ORIENTED COMPUTATIONAL TOOLS

Artificial Intelligence Methods
Evolutionary Procedures
Heuristic Techniques
Mathematical Optimization
Soft-Computing Methods
Survival Models and Simulation

Organization

Symposium Chairs

Fabio Biondini, Politecnico di Milano, Milan, Italy
Dan M. Frangopol, Lehigh University, Bethlehem, PA, USA

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Language

The official language of the Symposium will be English.

Submission of Abstracts

Authors are kindly invited to submit 250-word abstracts to the Symposium Secretariat by **August 31, 2007**. Abstracts should be submitted in electronic form by email (secretariat@ialcce08.org), together with a preliminary registration form (www.ialcce08.org). Authors will be notified regarding the acceptance of their abstracts by October 1, 2007. Full papers will be due by December 15, 2007.

Publication

The proceedings of IALCCE'08 will be published by *Taylor&Francis*. A book and a CD-ROM will be distributed to participants. Extended versions of selected papers presented at the Symposium will be considered for publication in **Structure and Infrastructure Engineering**, an international peer-reviewed scientific journal endorsed by IALCCE and included in the ISI Science Citation Index.



Structure and Infrastructure Engineering is dedicated to recent advances in the field of life-cycle performance of a wide range of structures and infrastructures, such as: buildings, bridges, dams, underground constructions, offshore platforms, pipelines, naval vessels, ocean structures, nuclear power plants, airplanes and other types of structures (www.tandf.co.uk/journals/titles/15732479.asp or www.informaworld.com/sie).

Registration

Early and on-site registration will be possible for all participants. Please note that early registration is strongly recommended. Participants who complete early registration will benefit from a discount rate and the Symposium documentation will be ready upon their arrival. Deadline for early registration is **March 1, 2008**. Detailed information about registration forms and registration fees will be provided on the Symposium website (www.ialcce08.org).

Important Dates

Abstract Submission (**EXTENDED**) **August 31, 2007**
Notice of Abstract Acceptance (**EXTENDED**) **October 1, 2007**
Full Paper Submission December 15, 2007
Early Registration March 1, 2008