



IALCCE 2010

Second International Symposium on Life-Cycle Civil Engineering
Taiwan Tech, Taipei, Taiwan, October 27-30, 2010
<http://www.ialcce2010.org/>

First Announcement and Call for Paper

Objectives of 2nd Symposium

The 2nd International Symposium on Life-Cycle Civil Engineering (IALCCE2010) is organized on behalf of the International Association for Life-Cycle Civil Engineering (IALCCE, <http://www.ialcce.org>) under the auspices of the National Taiwan University of Science & Technology (Taiwan Tech). The aim of the IALCCE2010 is to provide a forum for researchers, practitioners, and students to meet and exchange the latest knowledge and information in the field of life-cycle civil engineering, as well as to stimulate and promote interest and studies in this field, and to bridge the gap between research and professional practice.

Important Dates

Submission of abstracts	December 15, 2009
Notification of abstract acceptance	January 31, 2010
Deadline for submission of full paper	March 31, 2010
Early registration	July 1, 2010

Submission of Abstracts

Authors of papers for the Symposium are invited to submit 250-word abstracts via Symposium website by December 15, 2009. Abstracts format from <http://www.ialcce2010.org/Papers.html> should be submitted followed.

Language

The official language of the Symposium shall be English. This includes all the published papers in the proceedings and all the presentations during the Symposium.

Symposium Chairs

Shi-Shuenn Chen, President, Taiwan Tech

Dan M. Frangopol, President, IALCCE

Steering Committee Chairs

Shi-Shuenn Chen, Taiwan Tech, Taiwan

Dan M. Frangopol, Lehigh University, Bethlehem, PA, USA

International Scientific Committee Chair

Alfredo H-S. Ang, University of California, Irvine, CA, USA

Local Advisory Committee Chairs

Chin-Der Ou, Taiwan High Speed Rail Corporation

Chang-Yu Ou, Taiwan Tech, Taiwan

Local Organizing Committee Chair

Cheng-Cheng Chen, Taiwan Tech, Taipei, Taiwan

Venue and Secretariat

The Taiwan Building Technology Center (TBTC) of Taiwan Tech will serve as the Secretariat of IALCCE2010 and will be responsible for providing all administrative and organizational support.

Contact

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IALCCE 2010 Secretariat

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Specific Topics and Sub-Topics

Life-Cycle Assessment and Design

- Life-cycle reliability and risk assessments
- Design for durability
- Design for sustainability
- Long-term performance analysis
- Performance based engineering
- Uncertainty modeling and analysis
- Risk-based decision under uncertainty
- Life-cycle optimization

Life-Cycle Performance of Special Structures

- High-rise buildings
- Bridges and viaducts
- Off-shore and marine structures
- Dams and hydraulic structures
- Precast systems
- Roof systems and hangars
- Highway and runway pavements

Life-Cycle Maintenance and Rehabilitation

- Health monitoring
- Maintenance strategies
- Inspection and evaluation
- Rehabilitation techniques
- Repair and strengthening methods
- Damage identification
- Field testing

Life-Cycle Damage Processes

- Aging of structures
- Deterioration models
- Corrosion
- Fatigue and cumulative damage
- Fire and high temperatures
- Severe environmental effects

Life-Cycle Costs

- Economics of life-cycle engineering
- Life-cycle cost models
- Whole life costing
- Life-cycle cost optimization
- Economic risk and decision basis