



IALCCE 2012

Third International Symposium
on Life-Cycle Civil Engineering

3 - 6 October 2012
Hofburg Palace, Vienna, Austria

IALCCE

The Symposium is organized on behalf of International Association for Life-Cycle Civil Engineering (IALCCE) under the auspices of the University of Natural Resources and Life Sciences. IALCCE (www.ialcce.org) is a young Association founded in October 2006. Its activities encompass all aspects of life-cycle assessment, design, maintenance, rehabilitation, and monitoring of civil engineering systems.

The International Symposium on Life-Cycle Civil Engineering is a biennial event. In 2012, Austria will host the Symposium for the first time. The IALCCE 2012 Symposium provides an opportunity for academics, engineers, architects, and builders from Austria, Europe, and around the world to keep themselves up to date with latest developments in the field of life-cycle civil engineering.

Special - Sessions SS 1-1:

Life-Cycle Engineering Tools for Risk-Based Decision under Uncertainty

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Due to the progressive degradation of materials, increase in traffic loads, and natural hazards, bridges may experience some deterioration during their service life and need significant maintenance/rehabilitation actions.

There is a huge interest in considering the performance of new superstructures in a life-cycle cost/assessment analysis and optimizing their design and conception by taking into account the overall service life period, from the design/construction to the demolition of the structure.

Economical and environmental impacts of construction, maintenance, rehabilitation, demolition need to be considered in the optimization design problem to ensure that new bridges satisfy financial and environmental objectives/constraints.

This special session aims at considering sustainability by means of a holistic approach combining life-cycle assessment, life-cycle cost, and life-cycle performance analyses.