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 4-4:

Numerical Modelling of Long-term Behaviour of Concrete Structures using B3 Model

Lukáš Vráblík, Czech Technical University in Prague, Prague, Czech Republic
Vladimir Kristek, Czech Technical University in Prague, Prague, Czech Republic

Concrete structures are very sensitive to long-term structural performance.

This phenomenon has paramount importance for serviceability, durability and long-time reliability of such structures.

This is why a reliable prediction of behaviour of structures during their construction as well as during their service life is extremely important.

One of the most important factors which provide perfect function of concrete structures (serviceability, loading capacity, durability) is real and correct prediction of creep and shrinkage – i.e. development of long-term deformations.

So for its prediction have to be used apposite and calibrated mathematical models - due to this fact Model B3 is very good and efficient for use.

The intention of this Special Session will be theoretical papers and papers describing practical usage of the model B3 for concrete creep and shrinkage prediction.