IALCCE 2020

The Seventh International Symposium on Life-Cycle Civil Engineering

27-30 October 2020, Shanghai, China

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Nowadays, people have realized the importance of creating a sustainable society to avoid or alleviate problems like climate change, environmental pollution or economic crisis. Therefore, the life-cycle thinking of civil engineering is discussed more and more frequently.

Civil engineering is mainly focused on design and construction during the past days, but contemporary society needs civil engineering to pay attention to more aspects, such as inspection, monitoring, repair, maintenance and optimal management of structures and infrastructures, in order to effectively manage the function of these structures throughout their lifetime. Considering these needs, the objective of the International Association for Life-Cycle Civil Engineering (IALCCE) is to promote international cooperation in this field of expertise to enhance the welfare of society. Its mission is to become the premier international organization for the advancement of the life-cycle civil engineering.

Previous editions of the bi-annual IALCCE symposium took place in Varenna, Lake Como (2008), Taipei (2010), Vienna (2012), Tokyo (2014), Delft (2016) and Ghent (2018). The Seventh International Symposium on Life Cycle Civil Engineering (IALCCE 2020) will be organized on behalf of IALCCE under the auspices of Tongji University in Shanghai (China) on October 27-30, 2020.

All major aspects of life-cycle engineering are addressed, with special focus on structural damage processes, life-cycle design, inspection, monitoring, assessment, maintenance and rehabilitation, life-cycle cost of structures and infrastructures, life-cycle performance of special structures, and life-cycle oriented computational tools.

We are looking forward to welcome all of you in Shanghai in 2020!

Special Session SS-4:

Life-Cycle Performance of Structural Interfaces in Repair and Strengthening Applications

Objective of the Special Session SS-4

Roman Wan-Wendner
Ghent University, Ghent, Belgium
& BOKU Vienna, Vienna, Austria

Panagiotis Spyridis
TU Dortmund University
Dortmund, Germany

Life-cycle engineering is strongly related with (i) the assessment of existing structures, and (ii) interventions on existing structures such as repair and strengthening measures in order to extend an asset's service life. Particular attention is devoted to the time-dependent interaction between existing and added structural elements, both at the system scale and the scale of individual connections. This special session aims to address the life cycle performance of structural interfaces. Its scope includes but is not limited to differential ageing, hygral and thermal phenomena, creep, and multiphase material interactions – all in the light of uncertain load histories and predictions.

IALCCE 2020 Secretariat
Tongji University –Department of Bridge Engineering
No.1239 Siping Road
200092 Shanghai, China

Website: www.IALCCE2020.org
E-mail: secretariat@ialcce2020.org
Tel: +86 21 65982153