Preface

After the 1st successful workshop in Leipzig in 2009, this 2nd International RILEM Workshop on Concrete Spalling due to Fire Exposure is organized with the aim to provide a forum for researchers from academia and industry to present and exchange their state of the art knowledge on issues related to spalling of concrete due to thermal, chemical, mechanical or physical actions. The workshop will take place in the Aula Congress Centre of TU Delft and is organized by TU Delft in cooperation with MFPA Leipzig.

Controlling the sensitivity of concrete towards its (explosive) spalling behavior during fire exposure is still one of today’s major issues for the design and construction of concrete structures. Fires – such as the Channel tunnel fire – still indicate that spalling of concrete may have serious consequences and that it is a phenomenon that should be taken into account when designing for fire. A clear understanding of the mechanisms that cause spalling will, therefore, significantly contribute to the enhancement of the structural safety and integrity of concrete structures.

In order to promote the understanding of concrete spalling subjects have been selected that reflect the recent achievements and advances in theoretical and experimental research and industrial developments and innovations. The articles addressed during this workshop contribute to the understanding of spalling under various conditions and show the advances in numerical modeling, experimental testing, protection systems and practical applications. This workshop will be a forum for academia and industry to discuss research and practical applications related to spalling of concrete.

The international interest for concrete spalling due to fire exposure (delegates from 25 different countries have registered) is an issue that shows the need to organize this event for the exchange of knowledge and for the ability to develop new initiatives to understand the phenomenon of spalling. We like to thank all authors, supporters and sponsors who made it possible to organize this 2nd RILEM workshop on concrete spalling due to fire exposure.

On behalf of the organizing committee,
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