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Presenter



TUDIAS GmbH in cooperation with:



Local organizing committee

Viktor MECHTCHERINE Martina AWASSI
Marko BUTLER Iurie CUROSU
Michaela GORGES Steffen MÜLLER

Participants and language

Participants may have backgrounds as researchers, PhD students, or industry specialists. Language of the conference is English.

Further information

The event is supported by RILEM (www.rilem.org), fib (www.fibinternational.org), IA-FraMCoS (framcos.org), and DAfStb (www.dafstb.de). Further information can be accessed through <http://tu-dresden.de/bau/ifb> or you may contact our conference secretary:

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TECHNISCHE
UNIVERSITÄT
DRESDEN

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International Conference

STRAIN-HARDENING
CEMENT-BASED
COMPOSITES

SHCC 4

Dresden

18-20 September 2017

Conference contents

The SHCC4 Conference is the follow-up to three previous, successful international events in Stellenbosch (South Africa, 2009), Rio de Janeiro (Brazil, 2011) and Dordrecht (The Netherlands, 2014), all of them focusing on strain-hardening cement-based composites and other types of advanced fibre-reinforced concrete materials such as textile reinforced concrete (TRC) and high-performance fibre-reinforced cement-based composites (HPFRCC). All these new materials exhibit pseudo-ductile behaviour resulting from the formation of multiple, fine cracks when subjected to tensile loading. The use of such types of fibre-reinforced concrete could revolutionise the planning, dimensioning, structural, and architectural design and construction of new buildings as well as the strengthening or repair of existing buildings and structures in wide areas of application.

Contributions to the SHCC4 Conference are expected to cover the latest findings and research related to SHCC, TRC, and HPFRCC. They may deal with – but are not confined to – the following topics:

- Material design and manufacturing;
- Mechanical properties and test methods;
- Structural design and performance;
- Design for durability and performance;
- Modelling and numerical simulations;
- Use in strengthening and repair;
- Practical applications.

The aim of the conference is to exchange ideas and experience in an open forum. Time slots for discussion of the topics and for social events as well are planned to promote an active workshop atmosphere.

Publication, important dates, costs

All papers to be published in the conference proceedings will be peer-reviewed. The proceedings will be indexed for inclusion in the major scientific databases. Abstracts should be submitted in electronic form directly to the conference secretary. Details of the format of full manuscripts will be distributed to the authors of accepted abstracts.

Abstract due:	30 November 2016
Abstract acceptance:	31 January 2017
Full manuscript due:	15 March 2017
Manuscript acceptance:	15 April 2017
Final manuscript due:	1 May 2017

Submission to: SHCC4-2017@tu-dresden.de

Fee delegate:	EUR 600	before 1 July 2017
	EUR 650	after 1 July 2017
Fee student:	EUR 350	before 1 July 2017
	EUR 400	after 1 July 2017

Accompanying persons, participation in the social events only: EUR 130 (any date).

The conference fees include conference proceedings, refreshments during coffee breaks, lunch, dinner, and social activities.

Please transfer your fee to this bank account:

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Fees cannot be refunded if the cancellation arrives in written form later than 14 days before the start of the conference.

Venue

Dresden, host city of the conference and capital of Saxony, is a special place in many ways: it welcomes its visitors with a unique constellation of the river Elbe and downtown development – a decision made by the Saxon monarch Frederic Augustus II in the 17th century. You can still experience traditional Dresden dating back to the Baroque era with its famous sights, such as the *Zwinger*, *Semper Opera*, *Cathedral*, the entirely rebuilt *Frauenkirche*, and many famous art collections, for example, the *Grünes Gewölbe*.



But Dresden doesn't stand just for tradition in culture and construction – technical solutions many of us use daily were invented here, e.g. the reflex camera or the coffee filter.

The *Technische Universität Dresden*, the conference venue, is one of eleven German Universities of Excellence designated in June 2012. Its roots date back to 1828. Today it hosts about 37,000 students, offers academic education in 14 faculties, and serves industry with a very large annual research budget.