REGISTRATION

The participation is limited to 100 partipicants in order to encourage a deeper interaction between the participants and allowing for the discussion in their interests, such as the behaviour of concrete at high temperature and the spalling of concrete due to fire exposure. All those intending to participate are kindly requested to send an e-mail to the workshop secretariat (spalling@mfpa-leipzig.de).

REGISTRATION FEE

Regular participants	€ 350,-
Students (BSc, MSc, PhD)	€ 250,-
Accompanying persons	€ 50,-

The registration fee covers

- Conference proceedings
- Participation in all scientific sessions
- Lunches and coffee breaks
- Conference banquet
- Transportation to the MFPA testing lab

Please note

For a paper to be included in the final workshop programme it is necessary that at least one of the authors is registered and pays his/her registration fee.The priority of inscription is given to participants that will present an oral presentation or a poster in the workshop.

The fee for the accompanying persons covers the conference banquet.

Payment

More details are given on the workshop website:
www.mfpa-leipzig.de

ACCOMMODATION

The participants are encouraged to stay in the same hotel where also the workshop will be held, allowing more interaction and discussion between the participants.

Ramada Treff Hotel Leipzig ****
Schongauer Sraße 39, D-04329 Leipzig
Telephone: +49 (0)341/254-0
E-mail: leipzig@ramada.de
Internet: www.ramada-hotel-leipzig.de

Single € 75,- Double € 90,-

The before mentioned prices include a substantial breakfast buffet and are charged per night.

HOW TO REACH LEIPZIG, GERMANY

Airplane: The international airport of Leipzig-Halle can be reached by regular flights from several European destinations:
www.leipzig-halle-airport.de

Train: Main Central Station is Leipzig “Hauptbahnhof” from where it is possible to take a tramway or a suburban railway to the hotel.
www.bahn.de, www.lvb.de

Car: Highway A 14, Exit Leipzig Ost/Engelsdorf in the direction to Leipzig city centre.

WORKSHOP SECRETARIAT AND INFORMATION

E-mail: spalling@mfpa-leipzig.de

More information are given on the workshop website:
www.mfpa-leipzig.de

CALL FOR ABSTRACTS
RILEM WORKSHOP

1st International Workshop on

Concrete Spalling due to Fire Exposure

From Real Life Experiences and Practical Applications to Lab-scale Investigations and Numerical Modelling

MFPA Institute Leipzig,Germany

3 - 5 September 2009

Organized by

Supported by

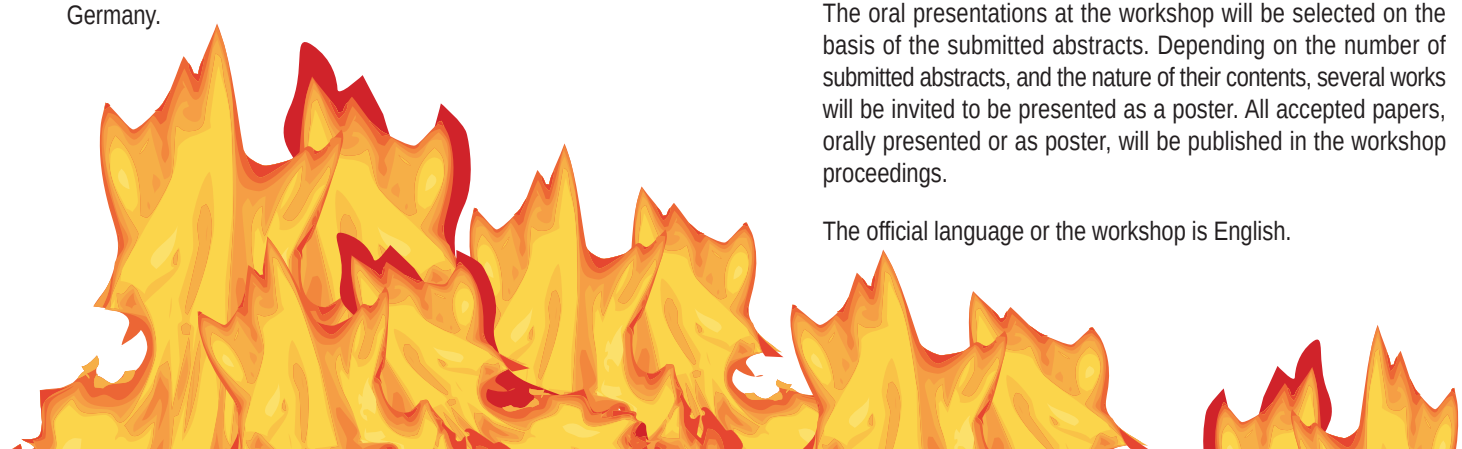
INTRODUCTION

Controlling the sensitivity of concrete towards its (explosive) spalling behaviour during fire exposure is one of today's major issues in the design and construction of concrete structures. Fires - such as the Channel tunnel fire - indicated that spalling of concrete can have serious consequences and is a phenomenon which should be taken into account when designing for fire. Recent achievements in concrete mix design have lead to new types of concrete - such as high strength, ultra-high strength and self-compacting concrete - which, besides an increased performance during loading, also have shown a different sensitivity towards spalling. However, the sensitivity towards spalling of a concrete structure is until now not fully understood and more research is needed to control the risk of spalling.

This workshop focuses on spalling of concrete due to fire and emphasizes on real life experiences and observations, practical applications, experimental and numerical advances. The aim of this workshop is to obtain an overview of the current level of knowledge and to stimulate the discussion between researches and representatives from the industry in order to promote the understanding of concrete spalling. Interesting subjects of the workshop are the recent achievements in experimental research for determining the key material properties and underlying processes and its contribution to understanding the global spalling behaviour under various conditions. Of further interest are also the recent advances in numerical modelling of the spalling process. Of particular interests are the combination of experimental testing and numerical modelling. Finally, the workshop will be the platform for practical applications of projects to avoid spalling of concrete. During the workshop the possibility is presented to visit the testing lab of the MFPA Institute Leipzig where a full scale fire test will be witnessed.

VENUE

The workshop will be held at the Ramada Treff Hotel in Leipzig, Germany.



CONFERENCE TOPICS

- Influence of chemical and physical processes on the cement paste microstructure at high temperature - such as dehydration
- Thermal behaviour and thermal stability of aggregates
- Influence of heating on material properties - such as permeability, tensile strength, elastic modulus, etc.
- Pore pressure development
- Transport mechanisms in heated concrete
- Changing water and water vapour saturation
- Stress-strain behaviour of heated cement paste, aggregate and concrete
- Fracture mechanics of heated concrete
- Development of spalling mechanisms
- Model selection and multiscale modelling
- Test setup and testing conditions
- Spalling influences - such as moisture content, external loading, geometry of specimens, etc.
- Design against spalling
- Occurrence of spalling in actual fires
- Damage assessment after testing or fire
- Repair and renovation techniques for spalling damaged concretes
- Measures to reduce or prevent spalling

POST EVENT

Meeting of RILEM TC-HPB - Physical Properties and Behaviour of High Performance Concrete at High Temperature, 7 - 8 September 2009, MFPA Institute Leipzig (Chairman: Prof. Dr. U. Schneider).

ORAL PRESENTATIONS, POSTERS AND PAPERS

The oral presentations at the workshop will be selected on the basis of the submitted abstracts. Depending on the number of submitted abstracts, and the nature of their contents, several works will be invited to be presented as a poster. All accepted papers, orally presented or as poster, will be published in the workshop proceedings.

The official language or the workshop is English.

ORGANIZING COMMITTEE

Prof. Dr. F. Dehn	MFPA Institute Leipzig
Dr. E.A.B. Koenders	Delft University of Technology
Ir. B.B.G. Lottman	Delft University of Technology
Dipl.-Ing. M. Juknat	MFPA Institute Leipzig

SCIENTIFIC COMMITTEE

The scientific committee consists of the members of the RILEM TC HPB - Physical Properties and Behaviour of High Performance Concrete at High Temperature (Chairman: Prof. Dr. U. Schneider) and the members of the fib TG 4.3 - Fire Design of Concrete Structures (Convenor: N. P. Höj).

ABSTRACTS

The organizing committee invites prospective authors to submit an abstract on the above mentioned topics. These abstracts, written in English, should have a length of about 200 words, indicating the title of the paper, the names, affiliations and e-mail addresses of the authors. The abstract should be sent to the workshop secretariat (spalling@mfpa-leipzig.de).

IMPORTANT DATES

1st April 2009	Abstract submission
15th April 2009	Acceptance of abstracts
15th May 2009	Paper submission
15th June 2009	Final paper submission
3rd-5th September 2009	Concrete spalling workshop

	3rd Sept. 2009	4th Sept. 2009	5th Sept. 2009
08:30		Experimental Techniques	Numerical Modelling
10:00	Introduction		
10:30	Practical Applications		
16:00		Visit MFPA testing lab	Workshop Closure
20:00		Banquet	

Each day is divided into scientific sessions and will be concluded by a summarizing plenary discussion.