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International Symposium on Ultra High Performance Concrete September 13 - 15, 2004, Kassel, Germany

The city of Kassel



Look at Kassel from the Herkules monument

Kassel is situated in the centre of Germany. It is offering fast and easy access by the ICE-train or motorway. Visitors who appreciate nature and love the arts will get their money's worth in this town, with its host of internationally renowned art treasures, historic monuments, and cultural and educational institutions.

Kassel is an ideal venue for conferences and congresses - its central location, the excellent facilities, the efficiency of its hotels and its fringe amenities such as Wilhelmshöhe and the Kurhessen Thermal Baths, the Casino, the Palace and hillside park. Add to these the museums, State Theatre, pedestrian precincts and shopping malls.



The Fridericianum museum



The Orangerie

Every fifth year the documenta as a world event turns the city into a mecca for art lovers. It is the most important contemporary exhibition of modern art.

There is without doubt hardly any art lover who hasn't already heard of the "Old Masters" to be found in Kassel. The focal point of this unique collection of famous painters is to be found in the paintings by Dutch and Flemish masters. There is a substantial collection of Rembrandt's works to be seen here in Kassel.

For more informations goto www.kassel.de

University of Kassel


CALL FOR PAPERS

International Symposium on Ultra High Performance Concrete

September, 13 - 15, 2004
Kassel, Germany

Supported by:





International Symposium on Ultra High Performance Concrete

September 13 - 15, 2004, Kassel,
Germany

The development of Ultra-high Performance Concrete (UHPC) with high compressive strength (>200 MPa) and improved durability marks a quantum leap in concrete technology. This high performance material offers a variety of interesting applications. It allows the construction of sustainable and economic buildings with a filigree/slim design. Especially, its high compressive strength makes it the ultimate building material for bridge decks, storage halls, thin-wall shell structures and highly-loaded columns.

UHPC shows special properties that distinguish it remarkably from normal and high-performance concrete. For complete utilisation of its advanced properties special requirements are necessary for its production, construction and dimensioning. Beside its high compressive strength, its outstanding resistance against all kinds of corrosion is remarkable.

Worldwide this material is under thorough investigation. In Europe, the first pre-cast UHPC bridge will be built in Kassel in the following year. The bridge is designed as a foot and bike bridge with a total length of 140 m. The bridge is split up in several sections with a maximum span width of 40 m. On this occasion, a conference on UHPC and its recent developments will be held in Kassel.

This international conference on UHPC will give experts from research, construction companies, pre-cast works, ready-mix plants, architects and construction offices the possibility to obtain new information on this new type of concrete and its applications.

CALL FOR PAPERS

Prospective authors are invited to submit a detailed abstract of up to 400 words. Only electronic submission will be accepted (ghlueke@uni-kassel.de or via the Internet at www.uni-kassel.de/uhpc2004; file format: doc or rtf). The abstract submission date is December 15, 2003. The papers will be reviewed for publication in the conference proceedings.

IMPORTANT DATES

December 15, 2003:	abstract submission deadline
February 15, 2004:	authors notified of paper status
March 31, 2004:	manuscript due
May 15, 2004:	review comments sent to authors
June 30, 2004:	final paper due
September 13-15, 2004:	symposium

ORGANIZED BY

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Topics:

- **Composition of UHPC**
 - aggregates and cement
 - additives - superplasticizers
 - optimisation by inert or reactive fillers
 - modelling of the matrix and/or the hydration process
 - mixing, processing
 - heat treatment
- **Strength and deformation behaviour of UHPC**
 - fibre reinforcement
 - creep and shrinkage
 - fatigue under cyclic loading
 - fracture mechanics
 - modelling of the structural behaviour (FEM and fracture mechanics)
- **Durability of UHPC**
 - porosity
 - resistance against diffusion
 - freezing and salting
 - fire resistance
- **Design and construction of UHPC**
 - applications
 - interaction and reinforcement
 - composite structures
 - internal and external prestressing
 - glueing of structural UHPC
- **Other topics of UHPC**
 - sustainability
 - economy
 - guidelines and standardisation
 - testing procedures
 - visions