

# Invitation and Final Program

## International Symposium on Ultra High Performance Concrete

September 13 - 15, 2004  
Kassel, Germany

Supported by:



Concrete — A Century of Innovation



[www.uni-kassel.de/uahpc2004](http://www.uni-kassel.de/uahpc2004)

## Committees

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University of Kassel, D (chairman)  
**Prof. Ekkehard Fehling**,  
University of Kassel, D (vice-chairman)  
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University of Leipzig, D  
**Prof. Gerd Thielen**,  
German Cement Work Association, D

### Organizing committee

Symposium's Secretary:  
**Mr. Carsten Geisenhanslüke**

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

The development of Ultra High Performance Concrete (UHPC) with its high compressive strength of more than 200 MPa and its 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 an extraordinary slim design. Its high strength and ductility makes it the ultimate building material e.g. for bridge decks, storage halls, thin-wall shell structures and highly-loaded columns.

Beside its improved strength properties, its outstanding resistance against all kinds of corrosion is an additional milestone on the way towards no-maintenance constructions.

The very special properties of UHPC distinguishes it remarkably from normal and high performance concrete. For complete utilisation of its advanced properties special know-how is necessary for its production, construction and design.

Worldwide this material is under thorough investigation. Several applications were already been built. One of the first precast UHPC bridges in the world will be built in Kassel in this year. The bridge is designed as a foot and bike bridge with a total length of 150 m. This is one of the reasons to held the conference in Kassel.

More than 75 experts from all over the world will present their scientific and practical experiences with the new and outstanding material. They will give a broad overview of all aspects of the raw materials, the micro- and macro-structure, the mechanical behaviour, the durability as well as of construction and design procedures appropriate for this material.

The conference will promote the exchange of scientific and practical experiences and the common usage of this new and outstanding building material.

We are pleased to welcome you at the University of Kassel!

Prof. Dr.-Ing. habil. M. Schmidt

Prof. Dr.-Ing. E. Fehling

## Technical Program Timetable

	Sunday, Sep. 12	Monday, Sep. 13	Tuesday, Sep. 14	Wednesday, Sep. 15	Thursday, Sep. 16 - Sunday, Sep. 19
9:00 to 10:30		Opening Ceremony	Session B1, C1	Session D1, E1	Post- Conference Tour (Berlin or Heidelberg)
10:30 to 11:00		Coffee Break	Coffee Break	Coffee Break	
11:00 to 12:30		Session A1	Session B2, C2	Session D2, E2	
12:30 to 14:00		Lunch	Lunch	Lunch	
14:00 to 15:30		Session A2	Session B3, C3	Session D3	
15:30 to 16:00		Coffee Break	Coffee Break	Coffee Break	
16:00 to 18:00	Welcome Reception / Registration	Session A3	Session B4, C4	Closing Ceremony	
20:00		Conference dinner	Cultural event		

### Welcome Reception on Sunday

We would like to invite you with sparkling wine and light refreshments on September, 12th 2004 at 06.00 p.m. It takes place in our "Gießhaus" at the University of Kassel. The registration for the Symposium will start at 04.00 p.m.



## Technical Program Monday, September 13

09.00 - 10.30		Opening Ceremony
<i>M. Schmidt, E. Fehling</i>		
<i>R.-D. Postlep</i>		
<i>President of the University of Kassel</i>		
<i>N. Witte</i>		
<i>Stadtbaurat of Kassel City</i>		
<i>M.-C. Tang</i>		High strength materials – past, present and future
<i>San Francisco, USA</i>		
Session A1		History and Experiences
11.00 - 12.30		
<b>Chairman:</b>		Prof. E. Fehling, Kassel, D
<i>S. Ahmad</i>		100 years of ACI activities in concrete
<i>Farmington Hills, USA</i>		
<i>P. Acker</i>		Ductal® Technology: a Large Spectrum of Properties, a
<i>St. Quentin Fallavier, F</i>		Wide Range of Applications
<i>P. Buitelaar</i>		Ultra High Performance Concrete: Developments and
<i>Højbjerg, DK</i>		Applications during 25 years
Session A2		Recent Applications
14.00 - 16.00		
<b>Chairman:</b>		Prof. M. Schmidt, Kassel, D
<i>F.-J. Ulm</i>		The next generation of US-Highway Bridge Girders:
<i>Cambridge, USA</i>		From UHPC materials to High Performance Structures
<i>Z. Hajar, A. Simon</i>		Design and Construction of the world first Ultra-High
<i>D. Lecointre, J. Petitjean</i>		Performance Concrete road bridges
<i>Bagneux, F</i>		
<i>N.Kaptijn, J.Blom</i>		A new bridge deck for the Kaag bridges: The first CRC
<i>Tilburg, NL</i>		(Compact Reinforced Composite) application in civil
<i>infrastructure</i>		
<i>U. Maeder, I. Lallemand-</i>		Ceracem, a new high performance concrete:
<i>Gamboa, J. Chaignon,</i>		characterizations and applications
<i>J.-P. Lombard</i>		
<i>Zürich, CH</i>		
<i>A. Möller</i>		Ultra High Performance grouts for offshore
<i>Aalborg, DK</i>		constructions
<i>E. Fehling, K. Bunje,</i>		Hybrid Bridge Construction with UHPC in Kassel:
<i>M. Schmidt, W. Schreiber</i>		Design and Construction
<i>Kassel, D</i>		
Session A3		Regulations and Recommendations
16.30 - 17.45		
<b>Chairman:</b>		Prof. M. Curbach, Dresden, D
<i>J. Resplendino</i>		First French recommendations for Ultra-High-
<i>Lyon, F</i>		Performance Concretes and examples of application
<i>M. Schmidt, U. Wiens</i>		State of the Art Report on UHPC materials and design
<i>Kassel, Berlin, D</i>		of the German Committee for Structural Concrete
<i>(DAfStb)</i>		

## Technical Program Tuesday, September 14

Session B1		Binders and Fillers
09.00 - 10.30		
<b>Chairman:</b>		Prof. R. Trettin, Siegen, D
<i>L. Elfgren, J.-E. Jonasson,</i>		EMC Cements for Ultra High Performance Concretes
<i>V. Ronin</i>		
<i>Lulea, S</i>		
<i>N. B. Singh</i>		Highly reactive B-Dicalcium silicate for Ultra-High
<i>Gorakhpur, IND</i>		Performance Concrete
<i>J. F. Martirena-</i>		Lime-pozzolan Binder as a very fine mineral admixture
<i>Hernández</i>		in concrete
<i>Santa Clara, C</i>		
<i>M. Shekarchizadeh,</i>		Optimizing mix proportions of Normal Weight
<i>A. H. Iranmanesh,</i>		Reactive Powder Concrete with Strengths of 200-350
<i>I. Talebinejad, A. Bassam</i>		MPa
<i>Tehran, IR</i>		
<i>C. Vellmer, M. Gehrke,</i>		Seeing at the nanoscale: reaction of pozzolanic and
<i>B. Middendorf</i>		cementitious materials in UHPC
<i>Kassel, D</i>		
Session B2		Silica Fume and Additives
11.00 - 12.30		
<b>Chairman:</b>		Prof. N. B. Singh, Gorakhpur, IND
<i>A. Korpa, R. Trettin</i>		The use of synthetic colloidal silica dispersions for
<i>Siegen, D</i>		making HPC and UHPC systems, preliminary
		comparison results between colloidal silica dispersions
		and silica fumes (SF)
<i>K. Jayakumar</i>		Role of Silica fume Concrete in Concrete Technology
<i>Coimbatore, IND</i>		
<i>I. Terzijski</i>		Compatibility of Components of High and Ultra High
<i>Brno, CZ</i>		Performance Concrete
<i>R. Hela, J. Zach</i>		Utilization of chemical admixtures in HPC concretes
<i>Brno, CZ</i>		
<i>T. Kowald, R. Trettin</i>		Influence of surface-modified Carbon Nanotubes on
<i>Siegen, D</i>		Ultra-High Performance Concrete
Session B3		Fillers and Aggregates
14.00 - 15.30		
<b>Chairman:</b>		Prof. K. van Breugel, Delft, NL
<i>J. Ma, M. Orgass, N. V.</i>		Comparative Investigations on Ultra-High Performance
<i>Tue, F. Dehn, D. Schmidt</i>		Concrete with and without Coarse Aggregates
<i>Leipzig, D</i>		
<i>P. Rougeau B. Borys</i>		Ultra High Performance Concrete with ultrafine
<i>Epemnon, F</i>		particles other than silica fume
<i>H.-W. Röth</i>		Production of Calcium Carbonate based fine fillers for
<i>Köln, D</i>		UHPC
<i>P. Haleerattanawattana,</i>		Strength-based gradation of coarse aggregate for ultra-
<i>E. Limsuwan</i>		high-strength concrete
<i>Bangkok, TH</i>		
<i>C. Geisenhanslüke,</i>		Investigations on UHPC with fly ash and quartz fines
<i>M. Schmidt, E. Schneider</i>		
<i>Kassel, Baden-Baden, D</i>		

## Technical Program Tuesday, September 14

<b>Session B4</b> <b>16.00 - 18.00</b>	<b>Material Modelling and Prediction</b>
<b>Chairman:</b>	Prof. D. Heinz, München, D
<i>K. van Breugel, Ye Guang</i> Delft, NL	Analyses of hydration processes and microstructural development of UHPC through numerical simulation
<i>J. Adolphs, A. Schreiber</i> Hofheim, D	Microstructural Characterisation of Ultra-High Performance Concrete
<i>H. Taghaddos, F. Mahmoodzadeh, A. Pourmoghaddam, M. Shekarchizadeh</i> Tehran, IR	Prediction of Compressive Strength Behaviour in RPC with applying an Adaptive Network-Based Fuzzy Interface System
<i>K. Droll</i> Wiesbaden, D	Influence of Additions of Ultra High Performance Concretes – Grain Size Optimization
<i>U. Stark; A. Müller</i> Weimar, D	Particle Size and Shape – an important factor for Packing Density
<i>C. Geisenhanslüke, M. Schmidt</i> Kassel, D	Modelling and Calculation of High Density Packing of Cement and Fillers in UHPC
<i>T. Teichmann, M. Schmidt</i> Kassel, D	Influence of Particle Packing on Structure, Strength and Durability of UHPC
<b>Session C1</b> <b>09.00 - 10.30</b>	<b>Design Specific Material Aspects</b>
<b>Chairman:</b>	Prof. A. Muttoni, Lausanne, CH
<i>E. Fehling, K. Bunje</i> Kassel, D	Design relevant properties of fixed Ultra High Performance Concrete
<i>N. V. Tue, H. Schneider</i> Leipzig, D	Bearing Capacity of Short Columns made of UHPC confined by a Steel Tube
<i>J. Hegger, D. Tuchlinski</i> Aachen, D	Bond Anchorage Behavior and Shear Bearing Capacity of Ultra High Performance Concrete Beams
<i>K.-H. Reineck, S. Greiner</i> Stuttgart, D	Tests on ultra-high performance fibre reinforced concrete for designing hot-water tanks and UHPFRC-shells
<i>K. Holschemacher, D. Weiße, S. Klotz</i> Leipzig, D	Bond of Reinforcement in Ultra High Strength Concrete
<b>Session C2</b> <b>11.00 - 12.30</b>	<b>Design Specific Material Aspects</b>
<b>Chairman:</b>	Prof. N. V. Tue, Leipzig, D
<i>K. Habel, E. Denarié, E. Brühwiler</i> Lausanne, CH	Structural response of hybrid “UHPFRC-concrete members under bending
<i>K. Bunje, E. Fehling</i> Kassel, D	Loading Capacity and Behaviour of Ultra High Performance Concrete Structural Elements subject to Shear and Punching Loads
<i>J. Brauns, K. Rocens</i> Riga, LV	Stress state optimization in steel-concrete composite elements
<i>J. Hegger, S. Rauscher, C. Goralski</i> Aachen, D	Push-Out Tests on Headed Studs embedded in UHPC
<i>T. Leutbecher, E. Fehling</i> Kassel, D	Structural Behaviour of UHPC under Tensile Stress and Biaxial Loading

## Technical Program Tuesday, September 14

<b>Session C3</b> <b>14.00 - 15.30</b>	<b>Design Specific Material Aspects</b>
<b>Chairman:</b>	Prof. H. S. Müller, Karlsruhe, D
<i>E. S. Lappa, C.R. Braam, J. C. Walraven</i> Delft, NL	Static and fatigue bending tests of UHPC
<i>S. Ortlepp, M. Curbach</i> Dresden, D	Research into high-strength concrete at high rates of loading
<i>K. Holschemacher, F. Dehn, S. Klotz, D. Weiße</i> Leipzig, D	Ultra High Strength Concrete under Concentrated Loading
<i>T. Stiel</i> Cardiff, Kassel, UK, D	Effect of the Casting Direction on the Mechanical Properties of CARDIFRC
<i>L. Kraft, L. Hermansson</i> Uppsala, S	Deformation Characteristics in various Calcium Aluminate Cement Admixtures investigated using three different Methods
<b>Session C4</b> <b>16.00 - 18.00</b>	<b>Design and Construction</b>
<b>Chairman:</b>	Prof. J. Hegger, Aachen, D
<i>W. Brameshuber, T. Brockmann, B. Banholzer</i> Aachen, D	Textile reinforced ultra high performance concrete
<i>M. Teutsch, J. Grunert</i> Braunschweig, D	Bending design of steel-fibre-strengthened UHPC
<i>J. Jungwirth, A. Muttoni</i> Lausanne, CH	Structural Behavior of Tension Members in UHPC
<i>J. Aronoff; A. Katz; Y. Frostig</i> Haifa, IL	The Behaviour of Very High Strength Reinforced Concrete Structures with CFRP Reinforcing Bars
<i>B. Freytag, J. Juhart, L. Sparowitz, E. Baumgartner</i> Graz, Spittal, A	The use of UHPC in composites – Ideas and realisations



Laboratory of materials and constructions,  
University of Kassel

## Technical Program Wednesday, September 15

<b>Session D1</b> <b>09.00 - 10.30</b>	<b>Processing and Early Age Behaviour</b>
<b>Chairman:</b>	Prof. R. Day, Calgary, CDN
<i>J. Schubert, O. Mazanec, I. Schachinger</i> Baden-Baden, München, Hannover, D	Effect of Mixing und Placement Methods on Fresh and Hardened Ultra High Strength Concrete
<i>T. Teichmann, U. Goldbach</i> Kassel, D	Influence of the precasting process on the material properties of fibre reinforced UHPC
<i>S. Staquet, B. Espion</i> Brussels, B	Early-age autogenous shrinkage development of UHPC incorporating very fine fly ash or metakaolin in replacement of silica fume
<i>H. Ito, I. Maruyama, R. Sato</i> Hiroshima, J	Expansive behaviour of high-strength expansive concrete and its induced stress
<i>B. Piscoer</i> Köln, D	Cross Fertilisations from the Refractory Industry
<b>Session D2</b> <b>11.00 - 12.30</b>	<b>Fibre Reinforcement</b>
<b>Chairman:</b>	Dr. F. Dehn, Leipzig, D
<i>L. Lohaus, S. Anders</i> Hannover, D	Effects of polymer- and fibre modifications on the ductility, fracture properties and micro-crack development of ultra-high performance concrete
<i>Y. Klug, M. Orgass</i> Leipzig, D	Fibre Reinforced Ultra-High Strength Concretes
<i>G. Güvensoy, A. Ilki, F. Bayramov, M. A. Taşdemir</i> Istanbul, TR	Mechanical Behaviour of Ultra High Performance Steel Fibre Reinforced Concretes under Cyclic Loading Condition
<i>A. Si-Larbi, E. Ferrier, P. Hamelin</i> Lyon, F	Flexural behaviour of Ultra High Performance Concrete reinforced with mixed short fibers and CFRP rebars
<i>R. Bornemann, S. G. Faber</i> Kassel, D	UHPC with steel and non-corroding high strength polymer fibres under static and cyclic loading
<b>Session D3</b> <b>14.00 - 15.30</b>	<b>Durability</b>
<b>Chairman:</b>	Prof. W. Brameshuber, Aachen, D
<i>G. Herold, H. S. Müller</i> Karlsruhe, D	Investigation on the Durability of Ultra High Strength Concrete
<i>L. Ay</i> Stockholm, S	Curing tests on ultra high strength plain and steel fibrous cement based composites
<i>D. Heinz, F. Dehn, L. Urbonas</i> Munich, D	Fire Resistance of Ultra High Performance Concrete (UHPC) – Testing of Laboratory Samples and Columns under Load
<i>D. Heinz, H.-M. Ludwig</i> Munich, D	Heat Treatment and the Risk of DEF Delayed Ettringite Formation in UHPC
<i>F. Dehn</i> Leipzig, D	Temperature Behaviour of Ultra High-Performance Concrete (UHPC) - A Micro Analytical Reflect



Session E1 09.00 - 10.30	Applications
Chairman:	Prof. J. C. Walraven, Delft, NL
B. Middleton, R. Day, L. Cowe Falls Calgary, CDN	Durability and Mechanical Properties of High Performance Concrete for Ultra-Thin Whitetopping Pavements
J. Kaufmann Dübendorf, CH	Development of special mortars for an application in centrifugal casting process
C. Vogt, B. Lagerblad, T. Hugo-Persson Stockholm, S	Optimization of UHPC for selective stabilization of deep boreholes
X. Pu, C. Wan, Y. Wang, H. Pu, C. Wang Chongqing, China	Kilometer Compressible Material and Its Preparation
P. Racky Kassel, D	Cost-effectiveness and sustainability of UHPC

Session E2 11.00 - 12.30	Applications
Chairman:	Prof. F.-J. Ulm, Cambridge, USA
E. Fehling, M. Schmidt, N. V. Tue, K. Bunje, T. Teichmann Kassel, D	Ultra High Performance Composite Bridge above the Fulda in Kassel – Accompanying Investigations as Basis for the required Agreement of the Authorities –
S. S. Gaharwar, S. Kumar, R. Kumar, M.V.B. Rao New Delhi, IND	A Visionary Approach for the Health Monitoring of Ultra High Performance Concrete Bridges in Indian Conditions
N. V. Tue, H. Schneider, G. Schenk Leipzig, D	Application of UHPC Tubes as Building Members
A. Lichtenfels Keltern, D	Ultra-High Performance Fibre Reinforced Concrete for shells
G. Zimmermann, T. Teichmann, M. Grohmann Kassel, D	Membrane Concrete Grid Shells

16.00 - 17.15	Closing Ceremony
J. C. Walraven Delft, NL	Designing with ultra high strength concrete: basics, potential and perspective
M. Schmidt, E. Fehling Kassel, D	Visions in UHPC Will the tower of Babylon come true?
Closing Ceremony	

## Social Program

- Welcome reception (September 12, 2004)
- Conference dinner (September 13, 2004)
- Cultural event (September 14, 2004)
- Guided city tours
- Fulda boat trip

## Accompanying persons program

Accompanying persons are invited to the opening and closing sessions of the Symposium, the Welcome reception on Sunday evening, the Dinner on Monday evening and a cultural event on Tuesday evening.  
Also, various sightseeing tours will be organized in and around Kassel.

	Sunday, Sep. 12	Monday, Sep. 13	Tuesday, Sep. 14	Wednesday, Sep. 15
Morning		9:00 Opening Ceremony and Welcome		
		Sightseeing Tour in Kassel		Hillside Park Wilhelmshöhe (Museum Castle Wilhelmshöhe; Sightseeing in the Park with famous fountain; Coffee break)
Afternoon	Welcome Reception	Museum Tour (Neue Galerie, Orangerie)	Boat trip on the Fulda river (incl. Coffee)	

## Post-Conference Tours (September 16 - 19)

Post-Conference Tours to **Heidelberg** or **Berlin** can be booked by filling-in the enclosed registration form. To get more informations please visit our symposium's website ([www.uni-kassel.de/uahpc2004](http://www.uni-kassel.de/uahpc2004)).

## Hotel Accommodation

The participants can book rooms at preferential rates in several hotels located in Kassel. To get a complete hotel list please visit our symposium's website ([www.uni-kassel.de/uahpc2004](http://www.uni-kassel.de/uahpc2004)).

Hotels	Varta Hotel Guide Category	Room rate per night single/double	Location of Hotel
La Strada	***	78 € / 90 € (w.b.)	1
Courtyard by Marriot	**	49 € / 49 € (w.b.)	2
Schlosshotel Wilhelmshöhe	**	48 € / 66 € (w.b.)	3
Gude	**	79 € / 104 € (i.b.)	4
Astoria	*	51 € / 71 € (i.b.)	5
Moevenpick	***	82 € / 112 € (o.b.)	8
Kurfuerst Wilhelm I.	*	60 € / 87 € (i.b.)	11
Stadthotel Kassel		57 € / 77 € (i.b.)	6
Chassalla	*	52 € / 72 € (i.b.)	7
Mercure Hessenland	**	69 € / 87 € (i.b.) standard	9
		77 € / 97 € (i.b.) comfort	
Schweizer Hof	*	62 € / 79 € (i.b.)	10
Deutscher Hof		49 € / 67 € (i.b.)	11

(w.b. = breakfast not included)

(i.b. = breakfast included)

The locations of the hotels offering special rates are shown on the enclosed citymap. The University and location of Symposium is marked with a red dot.



## Registration

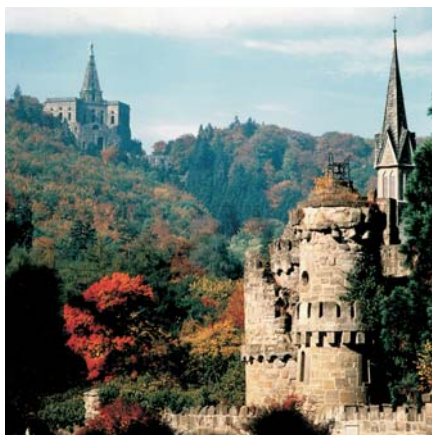
Participation to the Symposium and the excursions organized for accompanying persons may be registered by filling-in the enclosed Symposium Registration Form, according to the instructions therein, and sending it by fax or mail with payment, directly to the conference office.

	before August 1, 2004	after August 1, 2004
<b>Delegate</b>	€ 380,-	€ 410,-
<b>Lecturer</b>	€ 280,-	€ 280,-
<b>Accompanying person</b>	€ 130,-	€ 150,-

Cancellations: before August 31: 75% refund; after August 31: no refund

These fees include, for delegates and lecturers:

- Attendance to Opening and Closing Ceremonies
- Attendance to the Symposium Technical Sessions
- Two coffee-breaks per day (September 13-15)
- Welcome reception on Sunday, September 12
- Conference Dinner on Monday, September 13
- Cultural event on Tuesday, September 14
- One copy of the Symposium Proceedings



The "Herkules" and the "Lions Castle" - The town's landmarks of Kassel in the biggest hillside park of Europe

## Commercial exhibition

A commercial exhibition for products, services and projects is organized during the Symposium. There are stands of variable sizes available. Companies and organizations interested in participating may contact the Symposium's Secretary for reservation before August 1, 2004.

## Language

The Symposium's language is English.

## To get to Kassel

### By plane:

- to Frankfurt or Hannover Airport (from there about 1.5 hrs by train)

### By train:

ICE-train station Kassel-Wilhelmshöhe

Hourly trains from:

- Hannover (airport)
- Berlin
- Frankfurt (airport)
- Munich

### From ICE station to the venue:

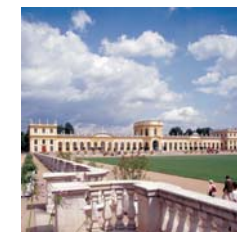
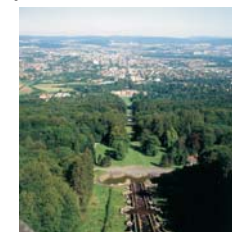
- Tram line 1 or 2 Stop Holländischer Platz/Universität

### By car:

- Autobahn A7 - Exit Kassel-Nord
- follow Dresdener Strasse to Zentrum/town centre
- At Crossing Dresdener Strasse - Ysenburgstrasse turn right
- Behind Fulda river bridge turn left
- Behind Buildings of University turn right twice towards parking spaces



## The city of Kassel

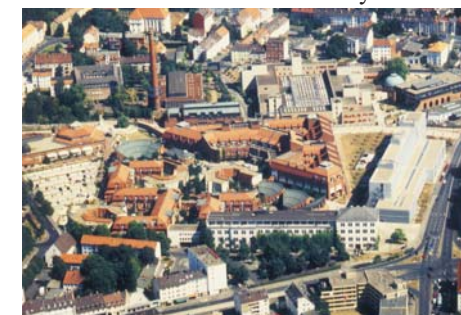


Kassel is situated in the very heart of Germany. It is offering fast and easy access by the ICE-train or motorway. Visitors who appreciate nature, love the arts and want to relive history will get their money's worth in this town, with its host of internationally famous art treasures, historic monuments, and cultural and educational institutions. Kassel is the town of the famous Documenta exhibition of modern art.

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, the biggest hillside park in Europe formed in the 17th century, and the Kurhessen Thermal Baths, the Casino and the Palace. Add to these the museums, State Theatre, pedestrian precincts and shopping malls.



The campus of the University of Kassel



## More informations:

[www.kassel-tourist.info](http://www.kassel-tourist.info)  
[www.kassel.de](http://www.kassel.de)  
[www.uni-kassel.de](http://www.uni-kassel.de)



**The forthcoming UHPC bridge in Kassel**

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