CONCRETE CONSTRUCTION OF THE FUTURE
LIGHTWEIGHT, RESOURCE-EFFICIENT & CO₂-NEUTRAL

PROGRAM
18 - 21 FEBRUARY 2020, NEU-ULM
On 18 and 19 February 2020 we would like to welcome you to the 64. BetonTage. Experience the leading European congress for building with concrete and concrete elements. Around 2,300 industry colleagues will meet at the Edwin-Scharff-Haus Congress Centre for advanced professional training and exchange among colleagues.

The congress will be opened by Dr Henning Beck, neuroscientist and author, with a talk on “Developing new ideas together – Using your brain and artificial intelligence”. In his talk he will take a look behind the scenes of the most flawed and innovative structure in the world: the brain. He will explain what advantage our brain has over artificial systems and how we remain superior to artificial intelligence and can use it optimally.

With his talk titled “Turning the switch – Concrete and cement production amid changing values and innovations”, Dr Martin Schneider of the German Cement Works Association, Verein Deutscher Zementwerke, will pick up the current debate on climate change and CO\textsubscript{2} emissions and present challenges and solutions for our industry and the production of the future.

Climate change, the CO\textsubscript{2} debate and Vision 2050 will take centre stage at the congress. The podium “Application-oriented research for concrete” will address topics for the production of the future and present innovative construction methods as well as new production techniques, aggregates and additives, and embedded parts for concrete production. The podium “Potentials of concrete elements of the future” will show solutions for innovative product developments and building with concrete elements in the age of “4.0”.

The Guest country Denmark will present itself as the European metropolis of precast concrete construction and will provide insights into its market and the philosophy of pre-fabricated construction. In addition, the National Museum of Qatar in Doha, the title motif of the 64. BetonTage, whose fibre concrete discs were produced by a Danish precast concrete element manufacturer, will be showcased.

The target group-specific trade exhibition is a permanent feature of BetonTage. Experience the presentation of the supplier industry in the machinery, software and accessories sectors with around 160 innovative companies, their new developments and product innovations for building with concrete elements. Use this opportunity to find out about the latest solutions for your day-to-day work.

Discover these and other topics in the program.

We look forward to seeing you!
PLENARY 1

Opening of congress and exhibition

Developing new ideas together – Using your brain and artificial intelligence
*Dr. Henning Beck, neuroscientist and author*

Turning the switch – Concrete and cement production amid changing values and innovations
*Dr. Martin Schneider, Verein Deutscher Zementwerke e. V., Düsseldorf*

Innovations secure our future –
Award of the 2020 Innovation Prize for Structural Concrete Products of the Supplier Industry
*Prof. Dr.-Ing. Harald Garrecht, University of Stuttgart*

LUNCH AND EXHIBITION VISIT
14:00 Rapid, high-precision construction of the future – Interdisciplinary collaboration involving concrete construction, production equipment and building IT
Prof. Dr.-Ing. Peter Mark, Ruhr University Bochum

New mix design methods for planning and managing fresh concrete robustness
Prof. Dr.-Ing. Michael Haist, Leibniz University Hannover

Durability characteristics of concretes produced with new clinker-efficient cements
Dr.-Ing. Christoph Müller, VDZ gGmbH, Düsseldorf

15:30 COFFEE BREAK

16:00 Plastic bars with basalt fibers as alternative reinforcing elements in concrete construction
Sebastian Hofmann, M. Sc., Prof. Dr.-Ing. Carl-Alexander Graubner, Darmstadt University of Technology

Controlling the Rheology of Fresh Concrete: Opus Fluidum Futurum – Report from the DFG Priority Programme 2005
Prof. Dr.-Ing. Viktor Mechtcherine, Technische Universität Dresden

Processing and use of fine and ultra-fine sands for concrete production
Dr.-Ing. Jan Paul Lampke, HAVER ENGINEERING GmbH, Freiberg
Doors open at 19:00

Reception
Followed by buffet, music and talks at the Hotel Maritim Einstein Hall
PLENARY 2

Climate change, the CO₂ debate and a vision for 2050
Prof. Anders Levermann, Ph.D., Potsdam Institute for Climate Impact Research (PIK)

Green Concrete – The CO₂-Neutral Building Material of the Future!
Dr. Dominik von Achten, HeidelbergCement AG, Heidelberg

COFFEE BREAK

GUEST COUNTRY DENMARK

The market for construction and precast concrete in Denmark
Pernille Nyegaard, Betonelement-Foreningen The Danish Precast Concrete Association, Kopenhagen

From element to system: Precast building philosophy in Denmark
Claus Bering, CRH Concrete A/S, Viby Sjaelland

Talk on the title motif of the 64. BetonTage

Fiber-reinforced concrete panels from Denmark for the desert –
Designing structural components for the National Museum of Qatar in Doha
Prof. Dr.-Ing. Thomas Winterstetter, Werner Sobek AG, Stuttgart

LUNCH AND EXHIBITION VISIT
14:00 Concrete construction of the future – The COEBRO research project
Prof. Dr.-Ing. Stefan Peters, Graz University of Technology

Concrete 4.0 – Potentials for digitizing the concrete production process
Prof. Dr.-Ing. Harald Garrecht, University of Stuttgart

Load-bearing, switchable vacuum insulation for sandwich wall panels
Dipl.-Ing. Fabian Penkert, Prof. Dr.-Ing. Matthias Pahn, University of Kaiserslautern

15:30 COFFEE BREAK

16:00 Textile-reinforced concrete produced with renewable raw materials
Jan Binde, M. Eng., Fraunhofer Institute for Wood Research, Braunschweig

Cost-effective use of fine and ultra-fine materials in standard and high-performance concretes
Dr.-Ing. Thomas Teichmann, G.tecz Engineering GmbH, Kassel
FAIRbinden
BETONTAGE
AT A GLANCE

Congress venue
Congress Center Edwin-Scharff-Haus
Silcherstrasse 40, 89231 Neu-Ulm, Germany

Exhibition opening hours
18 + 19 February 2020  8:00 - 18:00
20 + 21 February 2020  8:00 - 15:00

The congress office can be reached from 17 to 21 February 2020:
Phone  +49 731 705050-830

Registration
To register for the event, please use either the enclosed form or the online form provided at www.betontage.com/technical-program.

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When registering after 10 February 2020, you will receive your name badge directly at the Edwin-Scharff-Haus.
Travel
Enjoy the comfort of traveling by train to the BetonTage congress. The nearest ICE train station is Ulm Hauptbahnhof (Main Station). From there, take a taxi to get to Edwin-Scharff-Haus in just ten minutes.

The nearest airport is Stuttgart. From there, use either public transport and Deutsche Bahn to get to Ulm Main Station or hire a car for your onward journey.

Parking
The car park at Edwin-Scharff-Haus has a limited number of parking spaces. Please also use the multi-storey car parks Petrusplatz or Glacis-Galerie. You will find further information on www.betontage.com under “Travel and accommodation”.

Hotel
Please use the booking platform of Ulm / Neu-Ulm Touristik for booking. You will find the direct link on www.betontage.com under ”Travel and accommodation”. Due to the limited capacity we recommend early booking. Please use our free shuttle service from the hotel to the BetonTage venue.

Name badge
The congress documents handed to you when registering at the congress office will include a name badge. Please be sure to always wear your name badge in a well visible place during the event.

Exhibition
Make the most of the congress and establish valuable contacts by visiting our trade exhibition, which is held in parallel and covers two focus areas.

From Tuesday to Thursday, see the presentations of around 160 innovative companies from the supplier industry in the machinery, software and accessories sectors. The “Innovation Forum” on Wednesday is a platform for selected exhibitors to present their new developments and product innovations for building with concrete elements.

You will find a list of exhibitors under www.betontage.com/exhibition.

Market of media
Publishers, industry associations and partner organizations of the precast industry will showcase their range of offerings at the market of media.

Café BFT
Café BFT will be run by our media partner, the BFT INTERNATIONAL. Concrete Plant + Precast Technology magazine. Use your break to network while enjoying a range of coffee specialties.

Simultaneous interpretation service
The congress language is German. Simultaneous interpretation into English will be provided for the first and second-day plenary sessions and panels 1 and 5. Headsets and receivers will be available at the congress venue.

For the complete program in German, please visit www.betontage.de/fachprogramm.
CONTACTS

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Under the umbrella of

Partners

Media partner  Guest country Denmark

Betonelement-Foreningen
The new national museum of Qatar was designed by architect Jean Nouvel. One of the engineering companies involved in the planning was Werner Sobek in Stuttgart. The fibre concrete discs were produced by a Danish precast concrete element manufacturer.