

Location

The conference will take place at Vienna University of Technology, which is located in the center of the city. Vienna's most impressive sights are within walking distance of Vienna University of Technology.

It can be easily reached by public transport from Vienna International Airport, which provides direct flights to 170 destinations worldwide.

Accommodation

Block reservations at preference rates are arranged by the organizers. Detailed information will be available on the conference webpage in due course.

Social Programme

Welcome Cocktail

It will be offered on Monday, September 21, in the Cupola Hall of Vienna University of Technology.

Banquet

The banquet, given by the Mayor of the City of Vienna, will take place at a 'Heuriger' on Tuesday, September 22.

Registration Fees

Early registration fees are applicable if payment is received not later than March 31, 2015.

	Early	Late
Delegates	€ 500	€ 550
Students	€ 250	€ 300

The fees include the Proceedings, coffee breaks, the welcome cocktail, and the banquet.



Important Dates

Mini-symposia proposal, deadline	September 30, 2014
Mini-symposia acceptance, deadline	October 15, 2014
Abstract submission, deadline	November 30, 2014
	extended to December 19, 2014
Notification of acceptance	January 10, 2015
Full-paper submission, deadline	March 31, 2015
Early registration, deadline	March 31, 2015

Conference Secretariat

Correspondence should be sent to:

Vienna University of Technology
Institute for Mechanics of Materials and Structures
Karlsplatz 13/202
A-1040 Vienna, Austria
Email: concreep10@tuwien.ac.at
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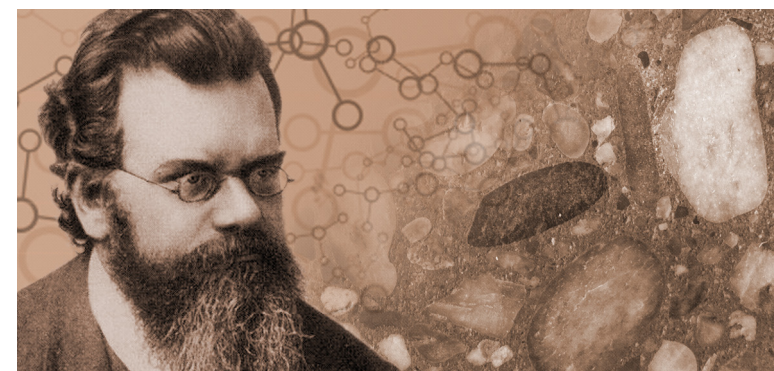
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CONCREEP-10

<http://concreep10.conf.tuwien.ac.at>

Mechanics and Physics of Creep, Shrinkage, and Durability of Concrete and Concrete Structures

commemorating Ludwig Boltzmann (1844-1906),
father of modern atomism and creep mechanics



September 21-23, 2015 | Vienna, Austria



TECHNISCHE
UNIVERSITÄT
WIEN
Vienna University of Technology



Scope and Invitation

With a history going back to 1958, the CONCREEP conference series has remained the key driving force when it came to gathering prominent scientists and engineers from around the world to discuss the peculiar time-dependent behavior of one of the oldest and most used, yet at the same time least fundamentally understood construction materials: concrete.

Distinct from the traditional, standards-driven approach, CONCREEP has always fostered an interdisciplinary approach, exemplified already at the first conferences held in Munich, organized by the civil engineer Hubert Ruesch and the physicist Folker Wittmann. This approach has ever since been intensified, in particular through the ceaseless efforts of Zdenek Bažant from Northwestern University, hosting the 1986 conference, and thereby triggering a strong transatlantic cooperation on the topic, which culminated in the 2013 ConCreep9@MIT-conference, co-sponsored by the French National Research Center - CNRS. During these developments, the intricacies of concrete have led experimental and computational investigators to enter ever smaller scales. Presently, we face the great chance and challenge at the same time, to effectively link atomistic physics to real-life civil engineering design, by incorporating the sheer boundless wealth of the modern materials sciences, progressing at fast pace.

This calls for a timely continuation of the CONCREEP series: Therefore, we cordially invite colleagues sharing the spirit sketched above, to join us in September 2015 at Vienna University of Technology (TU Wien), a place with a rich history and vibrant activities in concrete design and technology - in the city where Ludwig Boltzmann “invented” creep mechanics: in his seminal 1874 paper published in the Proceedings of the Imperial Academy of Sciences in Vienna, he introduced the concept of creep functions associated to a superposition principle, and confirmed this groundbreaking idea by an initial experimental campaign.



Egggraben bridge

Call for Mini-Symposia

Prospective mini-symposia organizers are invited to send their proposal to the conference secretariat by September 30, 2014.

Conference Topics

- Microstructure, setting, and ageing of cementitious materials
- Multiscale creep, shrinkage, fracture and durability properties
- Constitutive and numerical modeling
- Simulation and design of concrete structures
- Molecular to lab-scale simulations and characterization
- Nano- and micromechanics of cementitious materials
- New insights from macroscopic material testing
- Monitoring of concrete structures and exploitation of measurement data
- Creep and shrinkage properties of new cementitious materials
- Creep and shrinkage of concrete under extreme conditions

Call for Papers

Prospective authors are kindly invited to electronically submit an abstract related to a mini-symposium or to the conference topics through the conference website by November 30, 2014.

The proceedings containing obligatory full length papers will be published with ASCE. Instructions for preparing the papers will be provided with the notification of acceptance of the contribution.

Exhibition/Sponsorship

Companies and/or publishers are kindly invited to exhibit their products and services. Interested exhibitors can find all necessary information on the conference website. In addition, attractive sponsorships will be offered.



Microstructure of concrete

Local Organizer

Vienna University of Technology (TU Wien)
Institute for Mechanics of Materials and Structures
Institute of Structural Engineering

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Chairmen

Christian HELLMICH (TU Wien)
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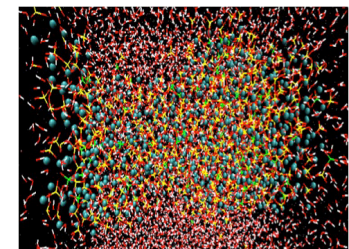
Advisory Committee

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Ignacio CAROL (Univ. Politècnica de Catalunya, Spain)
Gianluca CUSATIS (Northwestern Univ., United States)
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Local Organising Committee

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Stefan BURTSCHER (TU Wien)
Josef EBERHARDSTEINER (TU Wien)
Susanne GMAINER (Smart Minerals)
Jürgen MACHT (Kirchdorfer Group)
Stefan SCHEINER (TU Wien)
Roman WENDNER (BOKU Wien)

In addition, a scientific committee was formed (please see the members at the conference webpage).



Nanostructure of C-A-S-H