



Shaping the fate of low-carbon cement science

Call for abstracts

Authors are invited to submit abstracts of 300 words max by the **1st November, 2024**

Important dates

Early-bird registration	By 31 st January 2025
Registration	From 1 st February 2025
Extended abstract and full-length paper	1 st March 2025
Book of abstracts and paper collection by conference date	29 th June 2025

Conference chairs

Karen Scrivener, EPFL, Switzerland
Franco Zunino, University of California at Berkeley, USA

Organiser

Beatrice Malchiodi, EPFL, Switzerland

For more information and to register:

web : <https://lccs.epfl.ch>
email: <https://lccs.epfl.ch/contact>



Shaping the fate of low-carbon cement science



LCCS 25

Shaping the fate of Low-Carbon Cement Science

29th June to 4th July, 2025 - Ascona, Switzerland

Organisers

EPFL

UC Berkeley

Supporting

ETH zürich



Congressi
Stefano Franscini

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Scientific Committee and Invited Speakers

Karen Scrivener, EPFL, Switzerland
Franco Zunino, University of California at Berkeley, USA
Peter McDonald, University of Surrey, UK
Alexander Pisch, CNRS, France
Barbara Lothenbach, EMPA, Switzerland
John Provis, PSI, Switzerland
Ruben Snelling, KU Leuven, Belgium
Thomas Matschei, RWTH Aachen University, Germany
Miguel A. G. Aranda, University of Malaga, Spain
Pan Feng, Southeast University, Nanjing, China
Xuerun Li, BASF Construction Additives GmbH, Germany
Claire White, Princeton University, New Jersey
Hegoi Manzano, University of the Basque Country, Spain
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Aslam Kunhi Mohamed, IIT Madras, India
Torben Gadt, Technical University of Munich, Germany
Mark Alexander, University of Cape Town, Africa
Olivier Vincent, CNRS, France
Burkan Isgor, Oregon State University, USA
Robert Flatt, ETH Zurich, Switzerland

...To be updated

Venue :

Fondazione Monte Verità,
Strada Collina 84,
CH-6612 Ascona, Switzerland



Shaping the fate of low-carbon cement science

Background

The conference aims to bring together experts from the cement chemistry, physics, materials science and civil engineering domains to discuss the outstanding fundamental scientific challenges limiting an effective, widespread deployment of low-carbon cement and concrete.

The conference will bridge fundamental science with practical, application-oriented outstanding challenges of low-carbon cement and concrete.

The ultimate goal is to provide a roadmap of critical scientific work still required to fulfil the current roadmap towards a net-zero concrete industry by 2050.

Conference topics

Low-carbon cement production

clinkerization, thermodynamics of clinker formation, new chemistries for clinker production, firing technology, grinding technology, carbon capture, utilization and storage.

Alternative binders

Low-carbon cement hydration

mechanisms, new experimental approaches, insights, thermodynamic modelling, opportunities and limitations of experimental techniques available.

Low-carbon cement structuration

rheology, thixotropy of multiphase cements, the flow loss phenomena, interaction of low carbon cements and admixtures.

Low carbon cement transport phenomena and durability

ion transport, water transport in low carbon cement microstructure.

Low carbon cement modelling

atomistic modelling of hydration products in low carbon cements, microstructural modelling of correlation with experiments.

Conference Fees

Registration Fee	
Delegates Attendance	CHF 300 *
Student Attendance	CHF 150 *
Accommodation Fee	
Board – Meals and excursion	CHF 600 *
Lodging - Accommodation	Varies

*Registration Fee and Board Fee are mandatory.
Lodging can be selected in one of the partner hotels of the convention center (limited number of rooms) or arranged separately.