



## 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 <sup>st</sup> January 2025
Registration	From 1 <sup>st</sup> February 2025
Extended abstract and full-length paper	1 <sup>st</sup> March 2025
Book of abstracts and paper collection by conference date	29 <sup>th</sup> 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

29<sup>th</sup> June to 4<sup>th</sup> July, 2025 - Ascona, Switzerland

Organisers



UC Berkeley

Supporting



Congressi  
Stefano Franscini

Sponsors





## Shaping the fate of low-carbon cement science

### 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  
**Geng Guoqing**, National University of Singapore, China  
**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.