



7th International Workshop: Mechanisms and Modelling of Waste/Cement Interactions

First Announcement

WORKSHOP

22 – 24 June 2026

Event location
University of Bern
Bern, Switzerland

Workshop information
www.empa.ch/cement2026



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Scope and Background

The workshop “Mechanisms and Modelling of Waste/Cement Interactions” focuses on the understanding and modelling of the processes responsible for the stabilization of hazardous and radioactive wastes in cementitious systems, and on the use of mineral wastes as cementitious (raw) materials. Like the very successful earlier meetings in this series of workshops (Meiringen, 2005; Le Croisic, 2008; Ghent, 2013; Murten, 2016; Karlsruhe, 2019; Prague, 2023), the 7th workshop on **Mechanisms and Modelling of Waste/Cement Interactions** intends to bring together world-leading and junior scientists from the different branches of the research community.

Topics

The workshop aims at exchanging state-of-the-art knowledge on mineralogical, chemical and physical processes of waste/cement interactions.

- **Cement Chemistry and Microstructure**
Modelling, multiscale-approaches, alternative cements
- **Cement/Rock/Soil Interfaces and Transport**
Cement/host rock, transport processes and modelling
- **Recycling of Mineral Wastes in Cement Production**
Raw material replacement, supplementary cementitious materials, substitution potential and eco-efficiency
- **Interaction of Cement with Waste Constituents**
Radwaste, toxic waste, metal binding mechanisms, organic compounds
- **Nanoscale Characterisation and Molecular Dynamics**
Methods at large scale facilities, advanced methods
- **Deterioration and Leaching**
Alkali-aggregate reaction, carbonation, sulfate interaction, ageing processes, natural analogues

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Workshop location

In the center of Bern, just a few steps from Bern main train station, with a spectacular view to the Alps and the medieval town center (UNESCO Cultural World Heritage Site).

Bern is well connected to the European train system, has a small airport, and is easily reached by train from Zurich, Geneva and Basel airports.



Key Dates

May 2024: 1st announcement

March 2025: 2nd announcement and abstract submission

December 2025: start of registration

June 22–24, 2026: Workshop in Bern

Call for papers

Abstracts: Authors will be invited to submit a one-page abstract for oral and poster presentations.

More information will be found at www.empa.ch/cement2026

Workshop Organizers

Ellina Bernard, Empa, Switzerland

Sergey Churakov, PSI, Switzerland

Charlotte Dewitte, Empa, Switzerland

Andreas Jenni, University of Bern, Switzerland

Barbara Lothenbach, Empa, Switzerland

Urs Mäder, Rock-Water Consulting, Switzerland

John Provis, PSI, Switzerland

Mirjam Wolffers, University of Bern, Switzerland

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Administration

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