

CALL FOR ABSTRACTS



ICSBM 2023

The 3rd International Conference on Sustainable Building Materials

Organizers

Wuhan University of Technology
Wuhan University
and
Eindhoven University of Technology

Sponsors

RILEM (Réunion Internationale des
Laboratoires et Experts des Matériaux)
and
ACF (Asian Concrete Federation)

Conference Contact

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Introduction

The building sector is by far the largest consumer of raw materials and producer of manmade materials. From a sustainability and circularity point of view, the effects of this demand can among others be mitigated by using biogenic resources, smart material design, enhanced durability, functionalization, reuse and recycling, and the use of side streams ("waste"). The conference addresses this challenge starting from a scientific approach; building materials science being a syncretic discipline hybridizing mineralogy, ceramics, solid-state physics, chemistry, metallurgy and biology. Advanced characterization and treatment methods, together with novel technologies and modelling tools, are vital for the study and improvement of the complete life cycle of building materials, from raw materials, to production, use and recycling.

It is more important than ever before to accelerate innovation in cement and concrete sector and to improve the sustainability of building materials. The challenges in the design, characterization, performance and application of innovative and sustainable building materials are diverse and interdisciplinary. The primary goal of the conference is to address these challenges starting from a scientific approach, to present recent advances in research and application of sustainable building materials, and to provide further high-level platform for professional exchange of knowledge.

Following the success of the preceding conferences in Wuhan and Eindhoven, we are pleased to announce the organization of the 3rd International Conference on Sustainable Building Materials, ICSBM 2023, in Wuhan, China.



Organizing Committee

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24-27 September 2023
Wuhan, China



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Main Topics

- ❑ **Advances in cementitious binders:** Carbonated binders, Carbon mineralization, Alkali activated materials, Geopolymer, Calcined clay cement, Magnesium Oxychloride Cement, Non-calcined cementitious binders, etc.
- ❑ **Waste recovery, treatments and valorizations:** Processing, separating and recycling of building materials, Incineration ashes, Municipal solid waste incineration residues, Steel slags, Mine tailings, Supplementary cementitious materials, etc.
- ❑ **Alternative reinforcements for concrete structures:** Basalt, Glass and Carbon fiber reinforced polymers, Plastic fiber reinforcement, aluminum alloy reinforcement, etc.
- ❑ **Functionalizing building materials:** Nano-engineered, Self-healing, Self-cleaning, Self-compacting, Coated, Photocatalytic, Hydrophobic, etc.
- ❑ **Green products:** Autoclaved aerated concrete, Lightweight concrete, Wood wool cement composites, Gypsum wallboards, Fired clay, Unconventional clays and aggregates, Alternative chemical admixtures, Low CO₂ options for concrete, etc.
- ❑ **Bio-based materials:** Biofibers, Biomineralization, Bacteria, Bio-aggregates, Biodeterioration, Bio-deposition, Agricultural and biorefinery residues, etc.

KEYNOTE SPEAKERS & TOPICS

Keynote Speaker	Topic	Keynote Speaker	Topic
Prof. Harald Justnes	Calcined clay binders	Prof. Jueshi Qian	New cement clinker
Prof. Zongjin Li	Corrosion detection in reinforced concrete	Prof. Caijun Shi	UHPC
Prof. Ángel Palomo	Precursors for alkali activated materials	Prof. Qiang Wang	Metallurgical slag in concrete
Prof. Surendra P. Shah	Carbon sequestration	Dr. Guang Ye	Modelling of of geopolymers
Prof. C.S. Poon	Ecological concrete recycling	Prof. Jos Brouwers	Concrete mix design
Prof. Johann Plank	Current Status of PCE Superplasticizer	In progress	Updating

Call for abstracts

All contributions delivered to the conference should be presented in English. All abstracts will be peer-reviewed and evaluated based on quality, innovation, and relevance. Invited full papers will be recommended for publication in Journal of Building Engineering. Abstracts submitted for communication on the conference should be delivered to the conference website susbuildmat.com. When submitting your abstract, please follow the guidelines specified in the abstract template ([Abstract ICSBM 2023](#)). Receipt of the submission will be confirmed via e-mail.

Important Dates

15 July 2023	Abstracts submission deadline
15 Aug 2023	Notification of acceptance of abstracts
24 Sep 2023	Registration
25-27 Sep 2023	Conference days

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