

Title: XVI DBMC moves on, but you can still submit abstracts in February
2023



XVI DBMC

16th International Conference on
Durability of Building Materials
and Components

10-13 October 2023

Abstract submission

Extended to February 2023



清华大学土木水利学院
SCHOOL OF CIVIL ENGINEERING
TSINGHUA UNIVERSITY

Tsinghua University
Beijing, China

<https://dbmc2023.civil.tsinghua.edu.cn>

XVI DBMC - Presentation

The triennial conferences of DBMC (Durability of Building Materials and Components) have been recognized as a high-quality forum for scientific research and knowledge sharing in the broad areas of civil engineering and architecture. The past 15 editions of DBMC conferences have brought forth deep insights and technical solutions to the key challenges confronting the whole engineering community. Today, more than ever, the engineering community should be mobilized to address the global issue of sustainability for our whole society.

Tsinghua university proudly announces the XVI DBMC conference from October 10-13, 2023 in Beijing, China. The 4-day event will be hosted by the organizing team from the School of Civil Engineering, Tsinghua university, together with the sponsoring organizations and institutions. The XVI DBMC will focus on the solutions of building industry to the sustainability development, thereby promoting the multi-disciplinary exchanges and collaborations amongst material and data scientists, and civil and environmental engineers. The conference topics include: innovative construction materials, components and building elements, their durability and practice of durability in design, intelligent construction, and life-cycle engineering. The XVI DBMC conference provides a communication platform for both scholars and engineers, especially young engineers and students.

Through the website you can the most recent updating for the conference organization and activities. Should you be willing to be involved into the XVI event, please sign up on the front page so that you can explore fully the functionalities. We will do our best to make your involvement an unforgettable experience.

Best wishes for the new year of 2023 !

Prof. Kefei Li,
Chair of Organizing Committee
Prof. Dongping Fang,
Chair of Scientific Committee



XVI DBMC - Themes and Topics

The main themes of this DBMC edition include, but not limited to, the innovative materials, the long-term performance and durability, the climate change and resilience, the intelligent

planning and design in construction, and the life cycle engineering. In addition, special talks will be arranged for the ongoing or recent mega-projects in China and abroad.

Theme 1: Innovative materials

- Topic: High performance materials
- Topic: Eco-green materials
- Topic: Multi-functional and smart materials

Theme 2: Durability

- Topic: Actions and mechanism
- Topic: Testing and modeling
- Topic: Design, assessment and practice
- Topic: Specifications and standards
- Topic: Historical heritage and monuments

Theme 3: Climate change and resilience

- Topic: Climate loads and building resilience
- Topic: Urban heat islands and overheating
- Topic: Nature-based solution and green roofs

Theme 4: Intelligent construction

- Topic: Construction automation and robotics
- Topic: Numerical infrastructure and intelligent design
- Topic: 3D printing

Theme 5: Life cycle engineering

- Topic: Life cycle costing and methods
- Topic: Recycling and waste management
- Topic: Carbon sink, trapping and reduction

We extend our warm invitation to you to join this forum of high-quality dissemination and exchange. The abstract submission is extended to **January 31, 2023**. Please use our conference website (<https://dbmc2023.civil.tsinghua.edu.cn>) to submit your abstract. We look forwards to your contribution to this marvelous event, and do not hesitate to contact us should you have further queries or suggestions to the organization.

XVI DBMC - Invited Lectures

Lecture-1: Understanding the Durability of Blended Cements particularly LC3 Systems

Speaker: KAREN SCRIVENER, EPFL, Lausanne, Switzerland

Lecture-2: Adopting Performance Specifications for Assessing Concrete Durability and Enabling Use of Innovative Concretes

Speaker: R. DOUGLAS HOOTON, University of Toronto, Canada

Lecture-3: Building Resilience to the Effects of Climate Change

Speaker: MICHAEL A. LACASSE, National Research Council, Canada

Lecture-4: Durability of Concrete Structures: Couplings between Mechanical and Physico-chemical Behaviors

Speaker: JEAN-MICHEL TORRENTI, University Gustave Eiffel, France

Lecture-5: Ensuring Value for Money for Large and Complex Construction Projects: The Value Management Approach

Speaker: GEOFFREY (QIPING) SHEN, The Hong Kong Polytechnic University, China

Lecture-6: Sustainable and Smart Building Materials for Digital Concrete Technologies

Speaker: VIKTOR MECHTCHERINE, TU Dresden, Dresden, Germany

Lecture-7: Concrete-filled Steel Tubular Hybrid Structures in Severe Conditions: Research, Application and Standard

Speaker: LIN-HAI HAN, Guangxi University/Tsinghua University, China

XVI DBMC -Important Dates (extended)

Abstract submission	<i>still open in February, 2023</i>
Abstract acceptance	<i>until February 28, 2023</i>
Full paper submission	<i>until April 15, 2023</i>
Full paper acceptance	<i>until May 31, 2023</i>
Early-bird registration	<i>from January 1, 2023 to June 30, 2023</i>
Regular registration	<i>from July 1, 2023</i>

XVI DBMC -Contact

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