

Deadlines and submissions

- For abstracts: 15 November 2023
- Full papers (6-8 pages): 15 February 2024
- Revised papers: 30 May 2024

Abstract layout and submission process available at:
<https://rilem-week2024.sciencesconf.org/>

In case of any question about the conference, please contact: bertron@insa-toulouse.fr

Proceedings

Proceedings will be issued in an electronic format. Publication of papers in proceedings will be conditional on registration of at least one co-author to the conference. The authors of the best papers will be invited to submit their manuscripts to RILEM Technical Letters Open Access Journal.

Registration and fees

Registration fees include participation in the conference, proceedings (electronic copies), and participation in coffee breaks and lunch.

VAT included 10%	Early-bird registration Until April 14, 2024	Regular registration From April 15, 2024	Onsite registration August 27-30, 2024
RILEM member	650 €	750 €	1,000 €
Non-RILEM member	850 €	950 €	1,400 €
PhD's and PostDoc (24 months after PhD defence)	275 €	350 €	450 €
RILEM member /officer participating in the RILEM week only	75 €	100 €	120 €
Pre-congress course (per course) - PhD student	45 €	55 €	Not applicable
Pre-congress course (per course) - Industry	500 €	600 €	Not applicable
Gala dinner (per participant)		100 €	

For further details regarding the registration, please see the conference website.

Secretariat

For registration purpose:
Miss Patricia Jarry
 INSA SAIC
 135 Avenue de Ranguueil
 31077 Toulouse Cedex 4 France
Phone : +33 (0)5 6155 9531
patricia.jarry@insa-toulouse.fr

Organised by

**Laboratoire Matériaux et Durabilité des
 Constructions – LMDC
 (Laboratory of Materials and Durability of
 Constructions)**
 INSA-UPS Génie Civil
 133C Avenue de Ranguueil
 31077 Toulouse Cedex 4 France
<https://www.lab-lmdc.fr/>

Toulouse

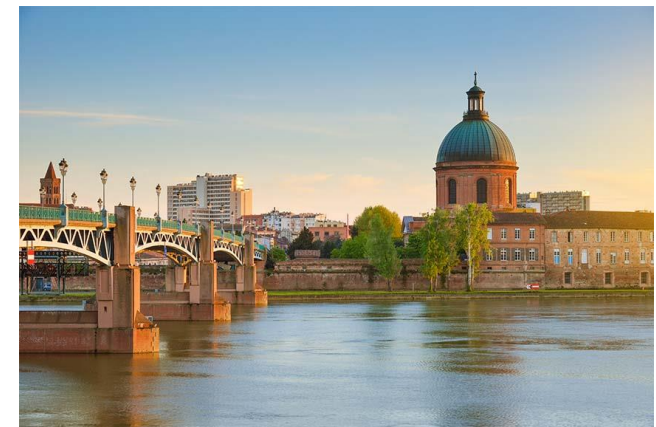


Toulouse is ideally situated in the heart of Southern France, between the Mediterranean and the Atlantic Ocean. The vibrant and cosmopolitan "Ville Rose" joyfully blends heritage, lifestyle, and regional gastronomy.



CALL FOR ABSTRACTS

**78th RILEM Annual Week
 and RILEM Conference on
 Sustainable Materials and
 Structures: Meeting the
 major challenges of the 21st
 century – SMS 2024**



© Agence d'attractivité Toulouse

**Including Young Researcher Competition
 and Best Paper Award**

**25-30 August 2024, Toulouse,
 France**

Welcome & scope

The 78th RILEM annual week 2024 is a conference to witness the recent advances in sustainable materials and structures. It is a prestigious event organized with a motivation to provide an international platform for budding researchers, academicians, engineers, industrialists, and for all inquisitive minds to share their research findings. The theme of SMS 2024 is to identify and address significant challenges of the construction sector in the 21st century. The conference aims to present and discuss topics related to safe and sustainable construction, durability of concrete, promotion of circular economy in construction sector and energy efficient materials and buildings.

RILEM stands for Réunion *Internationale des Laboratoires et Experts des Matériaux, systèmes de construction et ouvrages*. The objectives of RILEM, and by extension the conference, is simply a manifestation of the acronym which aims at bringing together organizations and professionals working in the domain of materials and structures to discuss, collaborate, and chart road maps for the future. We cordially invite you to attend the conference, take part in its proceedings, and make this conference a grand success.

For more information about RILEM week:
<https://rilem-week2024.sciencesconf.org/>

Chair: Prof. Alexandra Bertron (LMDC INSA Toulouse)

Conference topics

Conference themes and topics include:

For building materials:

- Cementitious materials (conventional and low-CO₂ binders, alkali-activated materials and geopolymers, new binders (with sulfur, magnesium, etc.), materials for energy storage,
- Bricks, stone, masonry, mortars, grouts,

- Bio-based materials, earth construction
- Bituminous materials
- Wood and timber structures.

For civil engineering structures:

- Buildings: Quality of indoor air, comfort, hygrothermal behaviour of building materials,
- Strategic infrastructures in their environments.

For any of these topics, scientific contributions investigating the time and service related properties, like, early age and setting, service properties, durability, safety, environmental impact, recyclability, will be particularly welcome. Experimental and numerical characterisation of material properties at different scales will be of interest: nanoscale (molecular dynamics, coarse grain models, advanced characterisation techniques), micro-mesoscale (mesoscopic models, indentation, etc.), macroscale (multiphysics characterisation, etc.), and structural scale (SHM, NDT, hybrid testing).

Special sessions will be held on a range of topics, that include Bio-based materials and earth construction; Materials for energy storage (sensible-heat, latent-heat, and thermochemical), Bituminous materials, Characterization, and modelling on small scales (nano, micro, molecular), Data-driven concrete science (AI for concrete material and infrastructures), microorganisms-building materials interactions, and so on.

Young researcher and best paper awards

A **Young Researcher Competition** will be organized in a dedicated session. Young researchers will discuss their findings in an oral presentation as well as a poster session. Three prizes will be awarded by a jury of industrial and academic members.

In addition, **Best Papers** will be selected among regular papers. Authors of the latter will be offered to submit a paper the RILEM Technical Letters, the Open Access Journal of RILEM.

More information at: <https://rilem-week2024.sciencesconf.org/resource/page/id/20>

Committees

Organizing committee:

- **Chair:** Prof. Alexandra Bertron (LMDC, INSA Toulouse)
- Prof. Laurie Lacarrière, LMDC, INSA Toulouse
- Dr. Marie Giroudon, LMDC, INSA Toulouse
- Dr. Thomas Verdier, LMDC, U. Toulouse 3
- Dr. Vanessa Mazars, LMDC, INSA Toulouse
- Dr. Amine Bouibès, LMDC, INSA Toulouse
- Ms. Deeksha Margapuram, LMDC, INSA Toulouse

Scientific committee:

The scientific Committee of the 78th RILEM Week and SMS Conference is composed of RILEM Officers

Chair of Scientific Committee:

- Prof. Enrico Sassoni, U. Bologna, Italy, RILEM Technical Activity Committee (TAC) Chair

Members of Scientific Committee:

RILEM TAC Cluster Conveners:

- Prof. Daman Panesar, U. Toronto, Canada (Cluster A - Material Processing and Characterization)
- Prof. Josée Duchesne, U. Laval, Canada (Cluster B - Transport and Deterioration Mechanisms)
- Prof. Giovanni Plizzari, U. Brescia, Italy (Cluster C - Structural Performance and Design)
- Prof. Anya Vollpracht, Institute of Building Materials Research, Germany (Cluster D - Service Life and Environmental Impact Assessment)
- Prof. Arun Menon, IIT Madras, India (Cluster E - Masonry, Timber, and Cultural Heritage)
- Prof. Eshan Dave, U. New Hampshire, USA (Cluster F - Bituminous Materials and Polymers)

RILEM TC Chairs and Deputy-Chairs: The complete list of TC Chairs and Deputy-Chairs involved in the Scientific Committee is available on the Conference website at: <https://rilem-week2024.sciencesconf.org/resource/page/id/10>