SUBLime

International Conference

Towards the next generation of sustainable masonry systems: Mortars, renders, plasters and other challenges

11 and 12 November 2024
Funchal, Madeira, Portugal

Overview

The SUBLime Conference on the next generation of sustainable masonry systems will be held on 11 and 12 November 2024. This conference is held within the scope of the SUBLime Network (www.sublime-etn.eu). SUBLime (Sustainable Building Lime Applications via Circular Economy and Biomimetic Approaches) aims to train researchers in multiple scientific and engineering fields for at a better understanding and development of sustainable innovation solutions for mortars, renders and plasters in new construction and conservation of the built heritage. This conference will be a key platform for dissemination of the SUBLime's results, and everyone is invited to participate. This is also a great opportunity to discuss and share on-going research on sustainable masonry systems and other challenges.

Venue

The conference will be held at the city of Funchal in Madeira (Portugal), at Hotel Pestana Casino Park, which is very convenient and well equipped for conferences in terms of facilities, transportation, proximity to other hotels and to the city centre.

Dates and Submission

Abstract submission	31 January 2024
Notification of abstract approval	29 February 2024
Paper submission	07 May 2024
Notification of paper approval	10 June 2024
End of early bird registration	03 July 2024
Final paper submission	03 July 2024
Deadline author registration	31 July 2024
Deadline conference registration	28 October 2024

Conference topics

This conference focuses on a wide variety of topics that contribute towards a more sustainable future in the world of masonry construction systems (both load-bearing and non-load-bearing). The following sub-topics have been identified:

- Mortars: fresh properties, hardened properties and delayed effects.
- New testing techniques: from material level to structural level.
- Lime-cement blended mortars for masonry.
- New mortar solutions towards improved performance.
- Performance-based design of masonry mortars and masonry systems.
- Self-healing in mortar/masonry systems.
- Innovative solutions for service life enhancement in masonry systems.
- Circularity in masonry components.
- Life-cycle analysis of raw materials and systems.
- Numerical simulation of mortar and masonry systems: multi-physics and multi-scale approaches.
- Resistance to earthquakes and extreme events.
- Climate change and adaptation.
- Conservation, repair and strengthening of the built heritage.
- Prefabrication and modular construction.
- Robotics and digitalization in masonry.
- Inspection, maintenance, operation.
- Digital twins and BIM.
- Case studies of practical design/construction.
- Codes and standards.

Committees

Local Organising Committee:
Paulo B. Lourenço, University of Minho, Portugal (Chair)
Miguel Azenha, University of Minho, Portugal
João M. Pereira, University of Minho, Portugal

Consortium Organising Committee:
Paulo B. Lourenço, University of Minho, Portugal
Miguel Azenha, University of Minho, Portugal
João M. Pereira, University of Minho, Portugal
Nele De Belie, Ghent University, Belgium
Carlos Navarro-Rodriguez, University of Granada, Spain
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Ulrike Peter, Lhoist, Belgium
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