

SAHC 2020

16-18 September 2020, Barcelona, Spain

How to register and submit contributions

Authors are invited to submit individual contributions on any of the conference topics. Submissions and conference registration should be performed electronically via the conference website:

<http://congress.cimne.com/SAHC2020>

Conference Secretariat

CIMNE

International Centre for Numerical Methods in Engineering
CIMNE Congress Bureau
Campus Nord UPC, Building C3 - "Zona Comercial"
Jordi Girona, 1-3 (08034), Barcelona, Spain
Tel. +34 93 405 4694 / Fax +34 93 205 8347
sahc2020@cimne.upc.edu

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VENUE

Barcelona is an exciting seaside city rich in history, architecture, business, world-class cuisine, culture and sports. Barcelona offers to any visitor a perfect blend of moving scenarios, unique atmosphere and creative initiatives. Barcelona also offers easy access to some splendid holiday resorts such as those in the Costa Brava.

Barcelona is a bimillenary city with a rich architectural heritage encompassing Roman and Visigothic archeological remains, Romanesque monasteries, a wealth of Gothic religious and civil buildings and a vast and unique Modernist heritage, which includes fascinating buildings designed by such imaginative architects as Puig i Cadafalch, Domenech i Montaner and Gaudí. The works of the latter two architects (about 12 buildings and sites in the city) are recognized as UNESCO World Heritage.

The conference will be held in the World Trade Center Barcelona (WTCB), set right on the seafront in Barcelona's Port Vell (Old Port). Designed by the U.S. architect Henry N. Cobb, it was inspired by the lines of ocean-going vessels. Its circular structure comprises four buildings that house offices, meeting and congress rooms, restaurants and a Grand Luxe hotel.

WTC is at a short walking distance of emblematic monuments and sights of the city such as world-famous "Les Rambles" street, the impressive Medieval shipyards ("Les Drassanes") and Columbus monument.

REGISTRATION FEES

	Early fees (if paid by April 30 th 2020)	Late fees (if paid after April 30 th 2020)
Regular fee	570€	670€
Student fee	350€	400€

Conference registration allows submission of one abstract / paper and includes access to the sessions, conference material and USB with proceedings, welcome reception, gala dinner, coffee breaks and lunches.

SUPPORTING ORGANIZATIONS

Universitat Politècnica de Catalunya (UPC), Barcelona, Spain

International Centre for Numerical Methods in Engineering (CIMNE), Barcelona, Spain

International Scientific Committee for Analysis and Restoration of Structures of Architectural Heritage of ICOMOS (ICOMOS / ISCARSAH)



SAHC 2020

12th International Conference on Structural
Analysis of Historical Constructions



**"New technologies for a
sustainable conservation of
heritage structures"**

Barcelona, 16-18 September, 2020

25th anniversary edition





MOTIVATION AND OBJECTIVES

The International Conference on Structural Analysis of Historical Constructions (SAHC) was first celebrated in Barcelona in 1995, followed by a second edition also in Barcelona in 1998. Since then, nine subsequent editions have been organized in different countries of Europe, America and Asia. The SAHC conference series is intended to offer a forum allowing engineers, architects and all experts to share and disseminate state-of-art knowledge and novel contributions on principles, methods and technologies for the study and conservation of heritage structures. Through all its successful past editions, the SAHC conference has become one of the topmost periodical opportunities for scientific exchange, dissemination and networking in the field.

During the last decades the study and conservation of historical structures has attained high technological and scientific standards. Today's practice involves the combination of innovative non-destructive inspection technologies, sophisticated monitoring systems, advanced numerical models for structural analysis and respectful intervention solutions for restoration and retrofit. More than ever, it is understood that the studies must be performed by interdisciplinary teams integrating wide expertise (engineering, architecture, history, archeology, geophysics, chemistry...). Moreover, the holistic nature of the studies and the need to encompass and combine the different scales of the problem – the materials, the structures and the environment – are now increasingly acknowledged. Due to all this, the study of historical structures is still facing very strong challenges that can be only addressed through sound international scientific cooperation.

Taking these ideas in mind, the 12th edition of the SAHC conference aims at creating a new opportunity for the exchange and discussion of novel concepts, technologies and practical experiences on the study, conservation and management of historical constructions. We are most pleased to welcome you to join this international event in which, furthermore, we will celebrate the 25th anniversary of the SAHC conference series.

ORGANIZING COMMITTEE

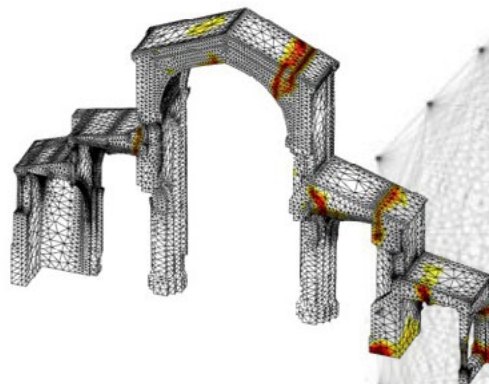
Pere Roca, Technical University of Catalonia

Climent Molins, Technical University of Catalonia

Luca Pelà, Technical University of Catalonia

Paulo Lourenço, University of Minho

Claudio Modena, University of Padova



CONFERENCE TOPICS

- History of construction and building technology
- Theory and practice of conservation
- Inspection methods, non-destructive techniques and laboratory testing
- Numerical modeling and structural analysis
- Management of heritage structures and conservation strategies
- Structural health monitoring
- Repair and strengthening strategies and techniques
- Vernacular constructions
- Conservation of 20th c. architectural heritage
- Seismic analysis and retrofit
- Vulnerability and risk analysis
- Resilience of historic areas to climate change and hazard events
- Durability and sustainability
- Interdisciplinary projects and case studies.

IMPORTANT DATES

Deadline for presenting a one page abstract
June 30th, 2019

Announcement of accepted abstracts
September 30th, 2019

Deadline for submitting the full paper
January 15th, 2020

Announcement of accepted papers
March 31th, 2020

Deadline for early bird registration
April 30th, 2020

Deadline registration for authors
June 30th, 2020