

VENUE INFORMATION

The Conference venue is **Sarajevo**, the capital of Bosnia and Herzegovina. The city urban area provides home to the population of roughly half a million. Sarajevo, or 'Palace place', has always been the major crossroad in the center on migration paths and conquests by Eastern Roman Empire, Slavs, Jews from Spain, Ottoman and Austro-Hungarian Empires, each leaving the imprint and contributing to the rich cultural heritage and numerous monumental buildings that remain in the city.

In the former Yugoslavia, city of Sarajevo was known for most vibrant music scene, 1984 Winter Olympic Games, and the long siege in 1990's during the break-up of the country. Presently, Sarajevo has fully regained its status as the crossroad between East and West and a new tourist 'must-see' destination with well-known 'Sarajevo-Film-Festival'. The travel guide series, Lonely Planet, has ranked Sarajevo as one of the top ten cities to visit in 2010. In 2011, Sarajevo was nominated to be the European Capital of Culture in 2014 and host to the European Youth Olympic Festival in 2017.

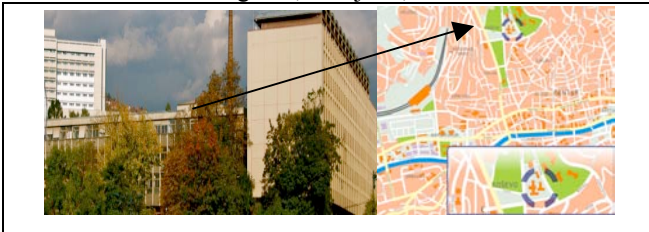
Sarajevo is also a very pleasant place to spend some leisure time. The city's location offers possibility for either a quick trip (less than half an hour ride) to mountains that hosted Winter Olympic Games or a day-trip (three hour ride) to Adriatic Sea resorts. Mid-September is the best period just after the massive arrival of tourists for "Sarajevo-Film-Festival", and the weather is still sufficiently mild for a very pleasant visit.

The conference is organized at a special occasion for BH partner, Civil Engineering Faculty or GF Sarajevo, celebrating the 70th anniversary. BH partners also include Mechanical Engineering Faculty or MF Sarajevo, for much-needed cross-fertilization of ideas between different application domains.

Conference venue/ contact address:

Gradjevinski fakultet (see Figure below)

Address: Patriotske lige 30, Sarajevo, BH



Travel / Hotels: Sarajevo can easily be reached by a direct flight from most European capitals. The city of Sarajevo provides a wide variety of accommodations, including hotels *Europe, Holiday, Marriott, Bristol, Bosna, Saraj*, among many others. More information on *travel plans* and *accommodation* can be obtained from the *conference web page*:

ECCOMAS MSF 2019 - WEB PAGE

<http://www.gf.unsa.ba/eccomas-msf-2019/>

For further information contact:

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Conference ECCOMAS MSF 2019



**First Announcement &
Call for Papers**

**4th International Conference on
Multi-scale Computational
Methods for Solids and Fluids**

September 18 - 20, 2019



Sarajevo, Bosnia and Herzegovina

co-organized by:

Adnan IBRAHIMBEGOVIĆ
Sorbonne Universités/ UTC, France



Samir DOLAREVIĆ, Ejub DZAFEROVIĆ
Univezitet u Sarajevu/ GF & MF, Sarajevo, BH



OBJECTIVES OF ECCOMAS MSF 2019

The main idea of this thematic conference is to examine recent advances from mechanics and applied mathematics in a currently very active research domain of multi-scale modeling and computations in solid and fluid mechanics. The latter involves methods which bridge phenomena taking place at multiple scales in space and time and which ought to be placed in interaction or accounted for simultaneously in order to provide the most reliable explanations. This class of problems calls for the development and combination of different analytical tools (homogenization, asymptotic analysis) and computational methods (parallel computing, stochastic analysis) in order to advance the field towards currently relevant nonlinear applications. A number of different schools have developed in various domains of fluids and solids, both in mathematics and mechanics, with sometimes very little or no interaction between them. It is an explicit goal of this thematic conference, in the true spirit of ECCOMAS, to bring these different communities together, and thus provide a sound basis for a fruitful exchange of ideas among them. The conference seeks also to provide a platform for learning from some of the world's leading specialists in analysis and design of complex engineering structures and systems, coming from aerospace, civil and mechanical engineering, material science, and in the design and analysis of numerical algorithms from applied mathematics. The main goal is elaborating the multi-field and multi-physics approach, which has significantly modified previously firm frontiers among these traditional engineering disciplines.

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....(see conference webpage)...

ORGANIZING COMMITTEE

Ibrahimbegovic A., Sorbonne Universités/ UTC, France
Dolarevic S., University of Sarajevo, BH
Dzaferovic E., University of Sarajevo, BH

ECCOMAS MSF 2019 TOPICS

According to the preliminary program, the introductory *keynote lectures* of each day of this conference should set the contents and the boundaries as well as indicate the main issues concerning computational methods for multi-scale analysis in solid and fluid mechanics. A number of organized sessions (containing 4-6 papers) will be scheduled at the conference.

The Conference topics to be addressed are:

Heterogeneous materials
Masonry structures
Complex structures
Material and structure failures
Adaptive modeling
Mechanics of porous media
Fluid-structure interaction
Multi-phase flows
Turbulence
Wave propagation
Stochastic Processes
Uncertainty Propagation
Case Studies ...

All accepted papers will be published in the form of extended abstract in a book of Proceedings along with the textbook containing the selected full-size contributed papers and keynote lectures. Special issue of scientific Journal of Coupled Systems Mechanics is also planned for publication of selected papers.

CALL FOR PAPERS

Authors are invited to submit an *abstract* of 2 to 4 pages by using the template file on conference website by **January 31, 2019**, containing the title of the proposed paper, the full address (including an e-mail) and the name of the corresponding author. The authors should indicate to which main conference topic their paper should be related.

CALENDAR

31 January 2019. Deadline for abstracts submission
28 February 2019. Notification of abstracts acceptance
31 March 2019. Deadline for early registration
30 April 2019. Penalty for late registration payment
31 May 2019. Deadline Full paper submission
30 June 2019. Notification of special issue acceptance
18-20 September 2019. ECOMASS Conference at Faculty of Civil Engineering in Sarajevo

REGISTRATION FEES

ECCOMAS MSF 2019 registration package, with **early registration before May 1, 2019 (cost 450 Euros)**, includes: the proceedings of keynote and selected lectures and abstracts of other participants, admission to complete scientific program, welcome reception, lunches, coffee breaks and a guided tour of the old city of Sarajevo.

Late registration fees (**made after May 1, 2019, cost 450+100=550 Euros**). The late registration fees will guarantee the place in the ECCOMAS MSF 2019 Final Program. For any later arrival, the presentation place is not guaranteed.

The potential participants are asked to register by filling in the registration form (available at ECCOMAS MSF 2019 web site) and pay the fees according to the calendar. **Invoices for payment of the registration fees will be sent to the author after the on-line registration has been conducted.**

PRE-CONFERENCE COURSE

Preconference course participant **early registration before May 1, 2019 (cost 250 Euros)**, are admitted only to scientific program.

This is a course offered to Graduate students interested in current research in solid and fluid mechanics. The course runs *September 15-17, 2019*, just before the conference ECCOMAS MSF 2019, held September 18-20, 2019. The course students are not expected, in general, to make presentation at ECCOMAS MSF 2019.

SOCIAL PROGRAM

Optional excursions for registered participants and accompanying persons will be organized during ECCOMAS MSF 2019.

The excursions will be organized either in Sarajevo, a city with a rich cultural life, or a number of tourist attractions within an easy reach from Sarajevo. The post-conference tours to Dubrovnik or to Mostar are also planned.

More information will be given in the Final Announcement and through the *web page of the conference*. *Pre-registration* for participants and accompanying persons is required.