

VENUE INFORMATION

The ECCOMAS Thematic Conference venue is **Ljubljana**, Slovenia. Ljubljana is the capital and largest city of Slovenia. During antiquity, it was the site of a Roman city called Emona. It was under Habsburg rule from the Middle Ages until the dissolution of the Austro-Hungarian Empire in 1918. Situated at the middle of a trade route between the northern Adriatic Sea and the Danube region, it was the historical capital of Carniola, a Slovene-inhabited part of the Habsburg Monarchy, and it has been the cultural, educational, economic, political, and administrative center of independent Slovenia since 1991. Its central geographic location within Slovenia, transport connections, concentration of industry, scientific and research institutions and cultural tradition are contributing factors to its leading position.

The travel guide series often place Ljubljana as one of the prettiest small capital cities in Europe, with a fairytale, picture-perfect old town of pastel colored baroque and art nouveau buildings, tree-lined river, and medieval castle perched on a hill. The city is compact and laid-back, with a youthful artsy population, and delicious food. Each year over 10,000 cultural events take place in the city, including 10 international theater, music, and art festivals.

Ljubljana can easily be reached by a direct flight from most European capitals. With its Central European location, Ljubljana is also easy to reach by car from many European cities: some 320 km south of Munich, 470 km east of Zürich, 250 km east of Venice, 350 km southwest of Vienna, 220 km south of Salzburg, 400 km southwest of Budapest, 150 km north of Zagreb and 500 km north of Belgrade.

Ljubljana's location is almost unique in offering possibility for a quick trip (less than an hour ride) to either Alps or Karst and to Adriatic sea; in short, it is a very pleasant place to spend some leisure time. Mid-September is the period just after the massive arrival of tourists, and the weather is still sufficiently mild for a very pleasant visit.

Conference Location / address:

Univerza v Ljubljani, Fakulteta za gradbeništvo in geodezijo, watch for sign: **ECCOMAS MSF 2017**
Address: Jamova cesta 2, 1000 Ljubljana, Slovenia



Hotels: The city of Ljubljana provides a wide variety of accommodation possibilities, including hotels like Hotel Slon or Grand Hotel Union Business. More information on *travel* plans and *accommodation* can be obtained from the *conference web page*.

[http:// www.eccomas-msf-2017.eu/](http://www.eccomas-msf-2017.eu/)

Please also consult MSF-2017 webpage for paper submission (Call for papers section), for final announcements and the conference program.

For any further information contact:

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Photo Primož Hieng, Source: Turizem Ljubljana

Conference ECCOMAS MSF 2017



First Announcement &
Call for Papers

**3rd International Conference on
Multiscale Computational
Methods for Solids and Fluids**

September 20 - 22, 2017
Ljubljana, Slovenia

co-organized by:

ADNAN IBRAHIMBEGOVIĆ
Sorbonne Universités/ UTC, France



BOŠTJAN BRANK
University of Ljubljana, FGG,
Slovenia



IVICA KOŽAR
University of Rijeka, GF,
Croatia



OBJECTIVES OF ECCOMAS MSF 2017

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 worlds' 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)...

LOCAL ORGANIZING COMMITTEE

Boštjan Brank, University of Ljubljana, FGG, Slovenia
Ivica Kožar, University of Rijeka, GF, Croatia
Adnan Ibrahimbegovic, Sorbonne Universités / UTC, France
(et al... for all other members, please visit website)

ECCOMAS MSF 2017 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 main topics to be addressed are:

Multi-scale analysis

Multi-physics problems

Heterogeneous materials, Material modeling

Masonry structures, Complex structures and systems

Material and structural failures modeling

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 the ECCOMAS MSF 2017 conference proceedings along with the selected full-size contributed papers and keynote lectures. Special issues of scientific journals (including Coupled Systems Mechanics and Engineering Modelling) are 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, 2017**, containing the title of the proposed paper, the full address and the name of the corresponding author and the contact e-mail.

CALENDAR

January 31, 2017. Deadline for abstracts submission
March 1, 2017. Notification of abstracts acceptance
May 1, 2017. Deadline for conference fees payment
May 1, 2017. Deadline for pre-conference course fees
After May 1, 2017. Late registration with penalty fees
September 17-19, 2017. Pre-conference short course, held at Faculty of Civil and Geodetic Engineering of University of Ljubljana
September, 20-22, 2017. ECOMASS MSF 2017, held at Faculty of Civil and Geodetic Engineering of University of Ljubljana

REGISTRATION FEES

ECCOMAS MSF 2017 registration package, with **early registration before May 1, 2017 (cost 450 Eur)**, includes: the proceedings of keynote and selected lectures and abstracts of other participants, admission to complete scientific program, welcome reception, lunches, coffee breaks, banquet, and a guided tour of the old city of Ljubljana. Preconference course participants, **early registration before May 1, 2017 (cost 250 Eur)**, are admitted only to scientific program.

Late registration fees (**made after May 1, 2017**), **cost 450+100=550 Eur**. The late registration fees will guarantee the place in the ECCOMAS MSF 2017 final program. However, for a very late registration, the presentation place is not guaranteed.

The potential participants are asked to register by filling in the registration form (available at ECCOMAS MSF 2017 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.**

SOCIAL PROGRAM

Optional excursions for registered participants and accompanying persons will be organized during ECCOMAS MSF 2017. More information will be given through the *web page of the conference*. *Pre-registration* for participants and accompanying persons is required.