Venue
The conference will take place at Vienna University of Technology, which is located in the center of the city. Vienna’s most impressive sights are within walking distance of Vienna University of Technology.

It can be easily reached by public transport from Vienna International Airport, which provides direct flights to 170 destinations worldwide.

Accommodation
Block reservations at preference rates are arranged by the organizers. Detailed information is available on the conference webpage.

Social Programme
A banquet, given by the Mayor of the City of Vienna, will take place on Thursday, June 8.

Registration Fees
Early registration fees are applicable if payment is received not later than April 15, 2017.

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<th>Early</th>
<th>Late</th>
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<tr>
<td>ECCOMAS Members</td>
<td>€ 370</td>
<td>€ 390</td>
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<tr>
<td>Delegates</td>
<td>€ 410</td>
<td>€ 430</td>
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<tr>
<td>Students</td>
<td>€ 190</td>
<td>€ 210</td>
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</tbody>
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The fees include the Book of Abstracts, coffee breaks, lunches, and the banquet.

Important Dates
- Abstract submission, deadline: January 31, 2017
- Notification of acceptance: March 15, 2017
- Early registration, deadline: April 15, 2017
- Presenter registration, deadline: April 30, 2017

Conference Secretariat
Correspondence should be sent to:
Vienna University of Technology
Institute for Mechanics of Materials and Structures
Karlsplatz 13/202
A-1040 Vienna, Austria
Email: compwood@tuwien.ac.at
Phone: (+43 1) 588 01-20211
Fax: (+43 1) 588 01-920211

Cupola hall at TU Wien, serving as main lecture room
Scope and Invitation

Wood is an excellent building material, due to its outstanding weight-performance characteristics, its sustainable availability and its appearance generally perceived as very pleasant. For all these reasons, wood as main building component is very well suited for a lot of engineering structures. Nevertheless, it is not used as extensively and efficiently as these properties would suggest. The inherent heterogeneous material structure and the great diversity of species make wood a challenging material as regards computational mechanical and engineering design models. Thus, the potential of wood, wood-based products, and timber building components is not fully exploited yet. Limits in existing design methods hamper a reliable and economically competitive design of timber structures. The use of modern computational methods is expected to complement experimental investigations and to enhance the predictive capability of design methods for wood and wood-based products as well as for timber engineering.

Challenges are for example the appropriate description of complex brittle and ductile failure modes (triggered by the anisotropic material behaviour), the resulting load transfer mechanisms (specifically in the case of reinforcements), and a realistic determination of compliances of connections between timber components. For all this, the time-, moisture- and temperature-dependency of wood may be taken into account. To address these challenges, detailed knowledge of the mechanical behaviour of wood on different length scales, from the ‘cell wall material’ over ‘wood-based products’ up to ‘timber structures’, must be gained, brought together in modern mechanical modelling strategies, and finally transferred to engineering practice.

The resulting goal of this ECCOMAS Thematic Conference is to establish a platform for knowledge exchange between scientists in the field of computational wood mechanics. Related experimental and theoretical research as well as applied research up to design solutions for practical examples are also welcome, to extend the knowledge base of this unique material.

Thus, the scientific and technical areas covered by this conference are experimental investigations, numerical and analytical models, and design concepts for wood at different length scales, wood-based products, building components, and timber structures.

Conference Topics

The topics covered by CompWood 2017 are

- **theoretical** (design concepts, material modelling),
- **numerical** (nonlinear and stochastic simulations), and
- **experimental** investigations related to computational wood mechanics at different length scales, like the
  - **wood microscale**, (cell behaviour, fibers, pulp and paper)
  - **wood macroscale**, and (solid wood, wood products, laminated members, joints)
  - **structural scale** (building constructions, construction details, historical applications, musical instruments).

Call for Abstracts

Prospective authors are kindly invited to submit a one-page abstract related to the conference topics through the conference online system by January 31, 2017. The template is available for download at the conference webpage http://compwood.conf.tuwien.ac.at.

Keynote Lecturers

- **Hans Joachim BLASS**
  Karlsruhe Institute of Technology, Germany
- **Massimo FRAGIACOMO**
  University of L’Aquila, Italy
- **Kristofer GAMSTEDT**
  Uppsala University, Sweden
- **Joseph GRIL**
  University of Montpellier 2, France
- **Michael KALISKE**
  Technical University of Dresden, Germany

Organizing Institutions

Vienna University of Technology (TU Wien), Austria
Institute for Mechanics of Materials and Structures Linnaeus University, Sweden Department of Building Technology

Chairmen

Josef FUSSL, TU Wien, Austria
Thomas BADER, Linnaeus University, Sweden
Josef EBERHARDSTEINER, TU Wien, Austria

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