



ECCOMAS Thematic Conference on Computational Combustion

Lisbon, 21-24 June, 2005

Instituto Superior Técnico



<http://navier.ist.utl.pt/compcomb05>

Institute of Mechanical Engineering (IDMEC)
Instituto Superior Técnico (IST)
www.ist.utl.pt



**Portuguese Association of Theoretical,
Applied and Computational Mechanics**
www-ext.Inec.pt/APMTAC

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European Community
on Computational Methods
in Applied Sciences

Location

The Congress will be held at IST Conference Center. IST is located near the city center, Lisbon Airport, underground station and several hotels.

Accommodation

A wide range of hotels at a walking distance from Instituto Superior Técnico (IST) is available. Two metro stations are located in the vicinity (Saldanha and Alameda) and consequently other hotels in town also provide good alternatives.

Registration Fees

Early registration before March 31, 2005, is advised. Late registrations will have a penalty. The following fees apply:

Fees (€)	Early Registration	Late Registration
IACM/ECCOMAS Members	350	400
Non IACM/ECCOMAS Members	400	450
Students	175	200

The fees cover: book of abstracts, proceedings in CD-ROM, participation in all the scientific sessions, lunches and coffee breaks, welcome reception and closing banquet. The lunches for participants will be organized at IST.

Social Programme

A social programme for delegates and accompanying persons will be arranged, including a reception and a banquet.

Accompanying Persons	Fee (€)
Early Registration:	175
Late Registration:	200

Congress Secretariat

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More detailed information is available on the Conference Home Page:

<http://navier.ist.utl.pt/compcomb05>

Sponsors and Supporting Organizations

- European Community on Computational Methods in Applied Science and Engineering
- International Association of Computational Mechanics
- Associação Portuguesa de Mecânica Teórica, Aplicada e Computacional
- Instituto Superior Técnico
- Instituto de Engenharia Mecânica
- Technical University of Lisbon
- Fundação da Ciência e Tecnologia
- Fundação Luso-Americana
- Fundação Calouste Gulbenkian

Objectives

The objectives of the conference are:

- To present the up-to-date state-of-the-art in the field of computational combustion.
- To present the actual trends in this field.
- To address fundamental combustion issues based on computational methods.
- To address combustion technological applications using computational methods.

Conference Format

The conference will last four full days and includes

- 8 Invited Lectures of 50 minutes
- Contributed Papers of 20 minutes
- Poster Sessions for Ph.D. Students

Topics

The topics of the conference include, but are not limited to, computational methods in:

- Atomization and Sprays
- Boilers and Furnaces
- Chemical Kinetics
- Detonation
- Fires
- Gas Turbine Combustors
- Heterogeneous Combustion
- Ignition
- Industrial Applications
- Internal Combustion Engines
- Laminar Flames
- Material Synthesis
- Micro-Combustion
- Microgravity
- Parallel Computing
- Pollutants
- Propellants and Explosives
- Radiative Transfer in Flames
- Software for Combustion
- Turbulent Flames
- Two-Phase Flows

Call for Papers and Deadlines

Authors wishing to contribute to the conference are invited to submit a one-page abstract to the conference chairperson. Authors will receive notification of acceptance of their proposed contribution. A full length manuscript, limited to 20 pages, is expected to be received from the authors of accepted abstracts to be published in the conference proceedings. A book containing the invited lectures of the conference and the best contributed papers is expected to be published in the ECCOMAS thematic conference series. Applicants that intend to submit papers must meet the following deadlines:

Abstract submission: 14-Jan-2005
Notification of acceptance: 15-Feb-2005
Paper manuscripts: 2-May-2005

Confirmation of participants in the conference by the authors will be required when papers are accepted. Only confirmed presentations will be included in the proceedings and final programme.

An ECCOMAS Thematic Conference

Computational Combustion is one of the Thematic Conferences of the European Community in Computational Methods in Applied Sciences (ECCOMAS). For further information about ECCOMAS Thematic Conferences see:

<http://www.cimne.upc.es/eccomas/html/link3.htm>.

Organizing Committee

- Prof. Pedro J. Coelho (Chairperson), Technical University of Lisbon, Portugal.
- Prof. João Azevedo (Co-chair), Technical University of Lisbon, Portugal.
- Prof. Viriato Semião (Co-chair), Technical University of Lisbon, Portugal.

Invited Lecturers

- De Goeij, L.P.H., Eindhoven University of Technology, The Netherlands.
- Jones, W. P., Imperial College, U.K.
- Magnussen, B.F., Norwegian Univ. of Science and Technology, Trondheim, Norway.
- Oran, Elaine, U.S. Naval Research Laboratory, U.S.A.
- Peters, Norbert, RWTH Aachen, Germany.
- Poinot, Thierry, IMFT/CERFACS, France.
- Sirignano, William, University of California, Irvine, U.S.A.
- Warnatz, Jürgen, University of Heidelberg, Germany.

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