

Venue

The EUROMECH Solid Mechanics Conference takes place in the Instituto Superior Técnico (IST) Conference Center. IST Campus is located at a convenient distance from hotels, restaurants and diverse cultural sites. Being close to the center of Lisbon, IST is easily reached by metro, bus, taxi or car from any location in town, including the airport, which is only a 10 minute taxi ride.

Accommodation

A wide range of hotels are located at walking distance from Instituto Superior Técnico. Two metro stations are located in the vicinity of IST (Saldanha and Alameda), which make other hotels in town good alternatives. More detailed information is available on the conference homepage:
www.dem.ist.utl.pt/esmc2009

About EUROMECH

EUROMECH - European Mechanics Society is an international non-governmental non-profit scientific organization. The OBJECTIVE of the Society is to engage in all activities intended to promote in Europe the development of mechanics as a branch of science and engineering. Mechanics deals with motion, flow and deformation of matter, be it fluid or solid, under the action of applied forces, and with any associated phenomena. More detailed information is available on the Society homepage: www.euomech.org

Sponsors and Supporting Organizations

EUROMECH - European Mechanics Society
APMTAC - Portuguese Association for Theoretical, Applied and Computational Mechanics
UTL - Lisbon Technical University
IST - Instituto Superior Técnico
IDMEC - Mechanical Engineering Institute
FCT - Foundation for Science and Technology
FCCG - Calouste Gulbenkian Foundation
FLAD - Luso-American Development Foundation

Registration

Early registration before June 1, 2009 is advised. The following fees apply:

	Early Registration	Late Registration
EUROMECH members:	400€	450€
Non-EUROMECH members:	450€	500€
Students	200€	250€

The registration fees include the book of abstracts, participation in all sessions, lunches and coffee breaks, reception, half day tour and banquet. The lunches for participants will be organized at IST.

Social Programme

A social programme for accompanying persons will be arranged during the days of the conference. A half day tour, reception and banquet will be organized for delegates and registered accompanying persons. Costs for the optional programmes will be posted on the conference home page.



Secretariat

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**EUROPEAN
MECHANICS
SOCIETY**

1st Announcement

ESMC2009

7th EUROMECH Solid Mechanics Conference

September 7-11, 2009

Instituto Superior Técnico,
Lisbon, Portugal



www.dem.ist.utl.pt/esmc2009

General

Following the very successful Conferences in Munich, Genova, Stockholm, Metz, Thessaloniki and Budapest, the 7th EUROMECH Solid Mechanics Conference will be held at Instituto Superior Técnico, Lisbon, Portugal, under the auspices of EUROMECH, during September 7-11, 2009. The purpose of this Conference is to provide opportunities for scientists and engineers from all of Europe to meet and to discuss current research, new concepts and ideas and establish opportunities for future collaborations.



Conference Topics

Continuum Mechanics

- General theories
- Elasticity
- Plasticity
- Homogenization & localization
- Geomechanics
- Micromechanics
- Multiscale problems
- Multifield problems
- Contact mechanics

Material Mechanics

- Damage and fracture
- Fatigue
- Viscoelastic materials
- Composite materials
- Smart materials
- Material modelling
- Biomaterials

Structural Mechanics

- Beam structures
- Plates & shells
- Stability
- Structural impact
- Composite structures
- Reliability and safety
- Forming processes
- Casting processes
- Inverse problems
- Biostructures

Dynamics

- Noise and vibrations
- Nonlinear dynamics
- Kinematics
- Multibody dynamics
- Control of structures & mechanisms
- Biomechanics of motion

Experimental Mechanics

- Hybrid techniques
- Experimental analysis
- Non-destructive control techniques

Computational Mechanics

- Finite elements
- Boundary elements
- Stochastic methods
- Meshless methods
- Optimization
- High performance computing

Coupled Problems

- Fluid-structures interaction
- Thermomechanics
- Aeroelastic problems
- Earthquake & wind engineering
- Magnetomechanical problems
- Electromechanical problems



Conference Scientific Committee

D. Bigoni (University of Trento, Italy)
R. De Borst (Technical University of Delft, The Netherlands)
C. Glocker (ETH Zurich, Switzerland)
P. Gudmundson (Royal Institute of Technology, Sweden)
H. Irschik (University of Linz, Austria)
M. Kurutz (Technical University of Budapest, Hungary)
N. Morozov (St. Petersburg University, Russia)
R.W. Ogden (University of Glasgow, United Kingdom)
G. Stépán (Technical University of Budapest, Hungary)



Local Organizing Committee

J. Ambrósio, Chaiman (IST) A. Ramalho (FCTUC)
J. César Sá (FEUP) H.C. Rodrigues (IST)
J. M. Cirne (FCTUC) J. Sá da Costa (IST)
P. Flores (U. Minho) M. Seabra Pereira (IST)
J. Martins (IST) M. Silva (IST)
P. Martins (IST) J. Silva Gomes (FEUP)
C.A. Mota Soares (IST) L. Sousa (IST, Portugal)



Call for Contributions

Authors wishing to contribute to the conference are invited to submit a two-page abstract (see format in the conference web page). Authors will receive notification of acceptance of their proposed contribution. The conference publication will include only the accepted abstracts and no full papers will be required. However, organizers of invited symposia and special sessions may invite contributors to deliver full length papers to be reviewed, and if accepted, published in special issues of international journals. Applicants that intend to submit contributions must meet the following deadlines:

Abstract submission: January 31, 2009
Notification of acceptance: March 15, 2009

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

Author's instructions are found on the Conference Home Page: www.dem.ist.utl.pt/esmc2009



Conference Format

The Conference will last five days, including the half-day tour, during which one general and eight plenary lectures will be delivered and working sessions organized, including the "EUROMECH Solid Mechanics Prize" lecture. In each working day two invited lectures will be delivered and four periods of 90 minutes sessions will take place for the organized sessions and invited mini-symposia. Poster sessions are also planned.

An award ceremony for EUROMECH Fellows will be held and the best oral and poster presentations by Young Researchers, age under 35, will be recognized with prizes.

Those who wish to organize mini-symposia in specialized, emergent or interdisciplinary topics should contact the Conference chairman before June 1, 2008.