

COMPLAS XIII

1 - 3 September 2015, Barcelona, Spain

How to register and submit contributions

Authors are invited to submit individual contributions on any of the conference topics. Submissions and conference registration should be performed electronically via the conference web site: <http://congress.cimne.com/complas2015/>



International Center for Numerical Methods in Engineering

CIMNE Congress Bureau

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Location

The Conference will take place at the Technical University of Catalonia (UPC), Vertex Building, Plaza Eusebi Güell 6, 08034 Barcelona, Spain.

Barcelona is a cosmopolitan city on the North East coast of Spain, within easy access to some splendid holiday resorts such as those on the Costa Brava. Barcelona itself is a fascinating place, and has a unique blend of historical tradition, exciting architecture, nightlife and haute cuisine.

Preliminary Registration Fees

Registration fees are expressed in Euro. Early registration applicable if paid until May 16, 2015.

	Early Fees If paid by May 16, 2015	Late Fees If paid after May 16, 2015
Delegates	490 €	590 €
Students	350 €	410 €

ECCOMAS and IACM members will have a 5% reduction on the delegate fees.

Registration fees include: Conference proceedings, attendance at all scientific sessions, coffee breaks, reception and banquet.

Supporting Organizations:

- Universitat Politècnica de Catalunya (UPC), Spain
- International Center for Numerical Methods in Engineering (CIMNE)
- Swansea University, UK
- European Community on Computational Methods in Applied Sciences (ECCOMAS)
- International Association for Computational Mechanics (IACM)



COMPLAS XIII

XIII International Conference
on Computational Plasticity,
Fundamentals and Applications

1 - 3 September 2015, Barcelona, Spain



Objectives

Previous meetings in the COMPLAS series were held in Barcelona in 1987, 1989, 1992, 1995, 1997, 2000, 2003, 2005, 2007, 2009, 2011 and 2013. The first twelve conferences in the series were technically and academically successful and these meetings have become established events in the field of computational plasticity. We intend to make of COMPLAS XIII a step forward in the history of the COMPLAS conferences.

The ever increasing rate of development of new engineering materials required to meet advanced technological needs poses fresh challenges in the field of constitutive modelling. The complex behaviour of such materials demands a closer interaction between numerical analysts and material scientists in order to produce thermodynamically consistent models which provide a response, while keeping with fundamental micromechanical principles and experimental observations. This necessity for collaboration is further highlighted by the continuing remarkable developments in computer hardware which makes the numerical simulation of complex deformation responses increasingly possible.

The objectives of COMPLAS XIII are to address both the theoretical bases for the solution of plasticity problems and the numerical algorithms necessary for efficient and robust computer implementation. COMPLAS XIII aims to act as a forum for practitioners in the field to discuss recent advances and identify future research directions.

COMPLAS XIII is one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS). It is also an International Association for Computational Mechanics (IACM) Special Interest Conference.

Important Dates

Deadline for presenting a one page abstract	January 15, 2015
Acceptance of the contributions	February 18, 2015
Deadline for submitting the full paper (not mandatory) and early payment	May 16, 2015

Conference Co-Chairmen

Eugenio Oñate, Universitat Politècnica de Catalunya, Spain

Roger Owen, Swansea University, United Kingdom

Djordje Peric, Swansea University, United Kingdom

Michele Chiumenti, Universitat Politècnica de Catalunya, Spain

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- H. Matthies, Germany
- C. Miehe, Germany
- I. Mihai, UK
- N. Moës, France
- J. Mosler, Germany
- H. Naceur, France
- R. Natal, Portugal
- C. F. Niordson, Denmark
- R. Ohayon, France
- J. Oliver, Spain
- S. Oller, Spain
- M. Ortiz, USA
- M. Papadarakakis, Greece
- M. Pastor, Spain
- R. H. J. Peerlings, Netherlands
- G. Pijaudier-Cabot, France
- F. Pires, Portugal
- J-Ph. Ponthot, Belgium
- P. Prat, Spain
- E. Ramm, Germany
- A. Reali, Italy
- B. D. Reddy, South Africa
- P. Roca, Spain
- T. Rodic, Slovenia
- A. Rodriguez-Ferran, Spain
- J. Roth, USA
- K. Runesson, Sweden
- B. Schrefler, Italy
- B. Suarez, Spain
- S. W. Sloan, Australia
- L. Stainier, France
- E. Stein, Germany
- R. L. Taylor, USA
- K. Terada, Japan
- V. Tvergaard, Denmark
- R. A. F. Valente, Portugal
- M. Vaz, Brazil
- I. Vladimirov, Germany
- D. Weichert, Germany
- N. E. Wiberg, Sweden
- Y. Wu, USA
- P. Wriggers, Germany
- G. Yagawa, Japan

Conference Topics

- Advanced Material Models
- Biomechanics and Bio-Medicine
- Composites
- Contact Problems
- Damage, Fracture and Fatigue
- Environmental and Geosciences
- Forming Processes Simulations
- Granulation Processes
- High Velocity Impact
- Industrial Applications
- Innovative Computational Methods (FEM, Discrete Element Methods,
- Particle-based Methods, Meshless Methods, etc.)
- Multi-Body and Non-Linear Dynamics
- Multi-Fracturing Solids
- Multi-Physics Problems
- Multi-Scale Material Models
- Nano-Mechanics
- Parallel and Real Time Computing Techniques

ECCOMAS and IACM Support

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www.eccomas.org

COMPLAS XIII is a Special Interest Conference of the International Association for Computational Mechanics (IACM)

www.iacm.info

