

COMPLAS 2017

5-7 September 2017, 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 website:

<http://congress.cimne.com/complas2017>



International Center for Numerical Methods in Engineering

CIMNE Congress Bureau

Campus Nord UPC, Building C3 - "Zona Comercial"
Jordi Girona, 1-3 (08034), Barcelona, Spain
Tel. +34 93 405 4694 / Fax +34 93 205 8347
complas_sec@cimne.upc.edu

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 in 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

	Early Fees If paid by April 28, 2017	Late Fees If paid after April 28, 2017
Delegates	550 €	650 €
Students	410 €	490 €

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:

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

ECCOMAS and IACM Support

COMPLAS 2017 is a Thematic Conference of the European Community in Computational Methods in Applied Sciences (ECCOMAS). www.eccomas.org

COMPLAS 2017 is a Special Interest Conference of the International Association for Computational Mechanics (IACM) www.iacm.info



Gaudi's Park Güell



© SBA73 - Gaudi's Sagrada Família Cathedral

COMPLAS 2017

XIV International Conference on Computational Plasticity

Fundamentals and Applications

5-7 September, 2017, Barcelona, Spain

COMPLAS
30 YEARS
1987-2017



Thematic Conference



Special Interest Conference



<http://congress.cimne.com/complas2017>

Objectives

COMPLAS 2017 will be a special occasion as we will be celebrating the 30th ANNIVERSARY OF THE FIRST COMPLAS CONFERENCE, IN 1987. Previous meetings in the COMPLAS series were held in Barcelona in 1987, 1989, 1992, 1995, 1997, 2000, 2003, 2005, 2007, 2009, 2011, 2013 and 2015. The first thirteen 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 2017 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 2017 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 2017 aims to act as a forum for practitioners in the field to discuss recent advances and identify future research directions.

COMPLAS 2017 is one of the Thematic Conference of the European Community on Computational Methods in Applied Sciences (ECCOMAS). It is also an International Association for Computational Mechanics (IACM) Special Interest Conference.

Conference Co-Chairmen

Eugenio Oñate, CIMNE/Universitat Politècnica de Catalunya, Barcelona, Spain

D. Roger J. Owen, Swansea University, United Kingdom

Djordje Peric, Swansea University, United Kingdom

Michele Chiumenti, CIMNE/Universitat Politècnica de Catalunya, Barcelona, Spain

MINAC MUSEUM



Scientific Committee

- C. Agelet de Saracibar, Spain
- O. Allix, France
- C. Andrade, Spain
- A. H. Barbat, Spain
- K.-J. Bathe, USA
- Z. Bazant, USA
- Y. Bazilevs, USA
- E. Benvenuti, Italia
- A. Benzerga, USA
- N. Bicanic, UK
- M. Bischoff, Germany
- R. Borja, USA
- P.-O. Bouchard, France
- I. Carol, Spain
- D. Cendon, Spain
- M. Cervera, Spain
- J. César de Sá, Portugal
- J. S. Chen, USA
- J. L. Chenot, France
- F. Chinesta, France
- D. Couellier, France
- E. Cueto, Spain
- R. de Borst, Netherlands
- A. de Jesus, Portugal
- L. de Lorenzis, Germany
- R. A. de Sousa, Portugal
- F. Dufour, France
- E. Dvorkin, Argentina
- J. Eberhardsteiner, Austria
- R. Feijoo, Brazil
- S. Forest, France
- L. Fourment, France
- M. Galic, Croatia
- A. Gens, Spain
- C. Hellmich, Austria
- G. Holzapfel, Austria
- A. Huerta, Spain
- T. J. R. Hughes, USA
- A. Ibrahimbegovic, France
- T. Iizuka, Japan
- T. Jefferson, UK
- M. Kleiber, Poland
- D. Kochmann, USA
- T. Kuboki, Japan
- P. Ladevèze, France
- T. Laursen, USA
- A. Ledesma, Spain
- C. Li, UK
- C. Linder, Germany
- L.-E. Lindgren, Sweden
- J. Llorca, Spain
- Y. Maday, France
- W. K. Liu, USA
- G. Maier, Italy
- H. Mang, Austria
- A. Maniatty, USA
- P. Marovic, Croatia
- H. Matthies, Germany
- C. Miehe, Germany
- I. Mihai, UK
- N. Moës, France
- C. Morin, Francia
- J. Mosler, Germany
- H. Naceur, France
- R. Natal, Portugal
- A. Needleman, USA
- C. F. Niordson, Denmark
- R. Ohayon, France
- J. Oliver, Spain
- S. Oller, Spain
- M. Ortiz, USA
- A. Pandolfi, Italy
- M. Papadarakakis, Greece
- M. Pastor, Spain
- R. H. J. Peerlings, Netherlands
- U. Perego, Italy
- B. Pichler, Austria
- G. Pijaudier-Cabot, France
- F. Pires, Portugal
- J.-P. Ponthot, Belgium
- P. Prat, Spain
- E. Ramm, Germany
- A. Reali, Italy
- D. Reddy, South Africa
- S. Reese, Germany
- P. Roca, Spain
- T. Rodic, Slovenia
- A. Rodriguez-Ferran, Spain
- B. Rosic, Germany
- G. Ruiz, Spain
- K. Runesson, Sweden
- B. Schrefler, Italy
- J. Schröder, Germany
- 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 Júnior, Brazil
- G. Ventura, Italia
- N. E. Wiberg, Sweden
- P. Wriggers, Germany
- G. Yagawa, Japan
- Y. Yuan, China
- Z. Zhuang, China

Conference Topics

- Advanced Material Models
- Biomechanics and Bio-Medicine
- Composites
- Contact Problems
- Damage, Fracture and Fatigue
- Environment and Geosciences
- Forming Processes Simulations
- Granulation Processes
- High Velocity Impact
- Industrial Applications
- Innovative Computational Methods (FEM, Discrete Element Methods, Meshless Methods, Particle-based 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

Important Dates

Deadline for presenting a one page abstract	January 29, 2017
Acceptance of the contributions	March 3, 2017
Deadline for submitting the full paper (not mandatory), presenting author's registration(*) and early payment	April 28, 2017

(*) Presenting authors are required to finalize their registration before April 28, 2017 in order to get the presentation included in the Conference Program.



Rambblas Boulevard