

## SCIENTIFIC COMMITTEE

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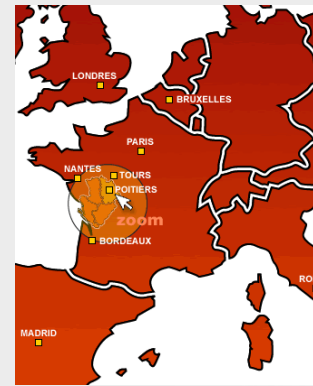
## ORGANIZATION COMMITTEE

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## CONFERENCE VENUE

*The site is situated 10 km from Poitiers (1h30 from Paris by train), at the heart of the Futuroscope site. It can be reached directly by high speed train (TGV) from the Paris airports or through the local airport.*



## KEY DATES

**Abstract submission deadline:  
New date: 25 October 2009**

Full-length paper submission deadline:  
1<sup>st</sup> March 2010

## CONTACT

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## 14<sup>th</sup> International Conference on Experimental Mechanics

Organised under the  
auspice of EurASEM



**Poitiers  
France  
4 - 9 July 2010**

<http://www.icem14.fr/>

## Advanced developments applied to structures, materials and environmental issues



**Main supporting  
associations**





ICEM 14 is an international conference held under the auspices of the European Association for Experimental Mechanics (EURASEM).

ICEM14 will focus in all aspects of experimental mechanics and will include sessions devoted to **advanced developments applied to structures, materials and environmental issues**. The technical program of ICEM14 will be the product of hard work and devotion of more than 100 world leading experts to whom I am greatly indebted. ICEM14 will comprise invited lectures by eminent academics from all around the world together with contributed oral presentations covering all aspect of experimental mechanics. During the conference special symposia covering major areas of research activities organized by members of the Scientific Advisory Board will take place.

The attendees of ICEM14 will have the opportunity to interact with the most outstanding world leaders and get acquainted with the latest developments in the area of experimental analysis of engineering, materials and structures. ICEM14 will be a forum of university and industry interaction and exchange of ideas in an area of utmost scientific and technological importance.

*Fabrice Brémand, ICEM14 chairman*

The EUROPEAN SOCIETY for EXPERIMENTAL MECHANICS (EuraSEM, [www.eurasem.org](http://www.eurasem.org)) is a new membership society whose target is to strengthen the European Experimental Community. The present Society continues along the lines of the past European Association for Experimental Mechanics, founded in 1959. EuraSEM will be officially launched at ICEM 14 in Poitiers. Its organization and objectives will be presented and a Constitutive

Assembly be hold to approve the Constitution and the Council. All delegates registered at ICEM 14 could become members of EuraSEM, the membership being included in the registration fees, and will be invited to attend contribute to the Constitutive Assembly.

*Alain Vautrin, EuraSEM President*

## TOPICS

- T1: Metallic materials
- T2: Time dependent materials
- T3: Historical materials and structures
- T4: Micromechanics
- T5: Nanocomposites and nanostructured materials
- T6: Mechanics of MEMS
- T7: Welds and welding process
- T8: Joining and assemblies
- T9: Durability of materials and accelerated ageing
- T10: Structure analysis
- T11: Advanced CND methods
- T12: Buckling and post-buckling behaviour
- T13: Fluid-Solids interactions
- T14: Optical Methods
- T15: Full-field measurements and Image processing
- T16: Moiré interferometry
- T17: Applications of optical methods
- T18: 3D measurements
- T19: Optics and laser applications
- T20: Acoustic emission
- T21: Advanced and specialized methods
- T22: Environmental experimental mechanics
- T23: Structural testing
- T24: Multiaxial testing
- T25: Modal analysis
- T26: Dynamic systems
- T27: Coupled mechanism analysis
- T28: Identification of mechanical constitutive equations
- T29: Applications
- T30: Teaching

## MINI-SYMPOSIA

### A: Properties of materials and structures

- A1: Composite materials, including natural fibers and matrices
- A2: Biomaterials, bio-compatible materials and biomechanics
- A3: Soils and geomaterials
- A4: Soft materials
- A5: Concrete based materials
- A6: Sandwich Structures
- A7: Polymers and elastomers
- A8: Thin films and coatings
- A9: Smart materials and systems
- A10: Wood and wood-based composites
- A11: Shape memory alloys
- A12: Time dependent constitutive behaviour

### B: Measurement Techniques

- B1: Digital holography
- B2: Digital image correlation
- B3: Photoelasticity
- B4: Speckle interferometry
- B5: Fringe analysis
- B6: Optical fibres and sensors
- B7: Volume deformation measurements
- B8: X-ray tomography
- B9: Ultrasonic techniques

### C: Experimental methods, analysis and applications

- C1: Identification from full-field measurements
- C2: Thermomechanics
- C3: Impact mechanics and high strain rate
- C4: Testing at micro and nano-scale
- C5: Structural dynamics and vibrations
- C6: Fracture and fatigue
- C7: Damage assessment
- C8: Human motion
- C9: Residual stress analysis
- C10: Structural Health Monitoring
- C11: Inverse problem
- C12: Hybrid techniques
- C13: Mechanics applied to art