

## SCIENTIFIC COMMITTEE

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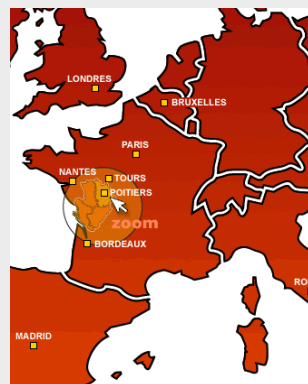
## ORGANIZATION COMMITTEE

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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:**  
**1<sup>st</sup> 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