



8-9 July 2010 Paris France



YOUNG SCIENTIST AWARDS  
SPONSORED BY SPRINGER

Organisers:

Prof. Andreas Öchsner (chair)  
Universiti Teknologi Malaysia , Malaysia

Prof. Lucas da Silva (co-chair)  
University of Porto, Portugal

Prof. Dr.-Ing H. Altenbach (co-chair)  
Martin-Luther-Universität Halle-Wittenberg, Germany

Abstract Submission Deadline  
**22 March 2010**

**ACE-X 2010**  
Paris - FRANCE



OPENING PLENARY LECTURE:  
**Professor J. N. Reddy**  
Texas A&M University,  
USA

07 July, 2010:

**SHORT COURSE N.1**

**Elasto-Plastic Material Behaviour: Continuum  
Mechanical Modelling and Finite Element Implementation**

**SHORT COURSE N.2**

**Predicting the durability of adhesive bonded joints**

## PUBLICATION:

- JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY

- THE JOURNAL OF ADHESION

- MATERIALS SCIENCE AND ENGINEERING TECHNOLOGY

- COMPOSITE STRUCTURES

*Papers will be selected to be submitted for this journal*

- INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES

- CONTINUUM MECHANICS AND THERMODYNAMICS

*selected papers related to (multiscale) modelling of novel phenomema in materials*

- KEY ENGINEERING MATERIALS

ACE-X 2010 – OFFICIAL JOURNAL

## BOOK – PUBLICATION:

*Selected contributions will be chosen for a Monograph, by Springer in German, on:*

- ‘DAMAGE AND FRACTURE OF COMPOSITES MATERIALS AND STRUCTURES’
- ‘SCIENTIFIC VISUALIZATION AND IMAGING SYSTEMS’
- ‘ADVANCED STRUCTURED MATERIALS’

## SPECIAL SESSIONS ON:

### (SS1) ‘SCIENTIFIC VISUALIZATION AND IMAGING SYSTEMS’

**Prof. Fabiana R. Leta** (organizer)  
Federal University Fluminense,  
Brazil

### (SS2) ‘ADHESIVE BONDING’

**Prof. Lucas FM da SILVA** (organizer)  
University of Porto,  
Portugal

**Prof. Jean-Yves Cognard** (organizer)  
ENSIETA,  
France

### (SS3) ‘BIOMECHANICS’

**Prof. Saïed Darwish** (organizer)  
King Saud University,  
Saudi Arabia

### (SS4) ‘DAMAGE AND FRACTURE OF COMPOSITE MATERIALS AND STRUCTURES’

**Prof. M.N. Tamin** (organizer)  
Universiti Teknologi Malaysia,  
Malaysia

### (SS5) ‘NUMERICAL MODELING OF MATERIALS UNDER EXTREME CONDITIONS’

**Prof. Nicola Bonora** (organizer)  
Università di Cassino,  
Italy  
**Dr. Eric N Brown** (organizer)  
Los Alamos National Laboratory,  
USA

### AREAS:

- Material modelling and constitutive relationships
- Homogenisation and localisation
- Plasticity
- Impact and crash
- Damage and fracture
- Transport phenomena
- Fluid-structure interaction
- Nanomechanics
- Dynamic
- Biomechanics

### MATERIALS:

- Composites and multiphase materials
- Porous and cellular materials
- Adhesive Science and Technology
- Advanced Materials
- Nanomaterials
- Biomaterials

### METHODS:

- Numerical methods
- Mathematical foundations
- Experimental methods

### Contact:

**ACE-X 2010 SECRETARIAT AND MANAGEMENT:**  
**Dr. Joanna Molek**  
**Ironix Global Events Consulting Lda**

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